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THE THIRTEENTH  
**ANNUAL REPORT**  
ON THE HEALTH  
OF THE  
**COUNTY BOROUGH OF WIGAN,**  
FOR THE

Year ending December 31st, 1908,

BY

**WILLIAM BERRY,**

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Past President of the North-Western Branch.

Fellow of the Royal Sanitary Institute.

Fellow of the Royal Institute of Public Health.

Fellow of the Royal Academy of Medicine, Ireland.


Medical Officer of Health, and

Medical Superintendent of the Borough Sanatorium for  
Infectious Diseases.

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## HEALTH COMMITTEE.

From November, 1908, to November, 1909.

CHAIRMAN :

ALDERMAN J. PHILLIPS, J.P.

VICE-CHAIRMAN :

COUNCILLOR J. BRADSHAW.

THE MAYOR.

THE EX-MAYOR.

COUNCILLOR H. BARTON.

„ M. BENSON, M.D., J.P.

„ J. P. HEYES.

„ W. HICKEY.

„ W. HIGHTON.

„ A. E. MATHER.

„ H. ROSS.

„ T. SMITH.

„ J. WALKDEN.

„ G. WOLSTENHOLME, M.B., J.P.

„ E. YATES.

Committee meets on the 3rd Thursday in each month, at 3 0 p.m.

## SANITARY WORKS COMMITTEE.

From November, 1908, to November, 1909.

CHAIRMAN :

COUNCILLOR J. PAXTON.

VICE-CHAIRMAN :

COUNCILLOR J. P. HEYES.

THE MAYOR.

THE EX-MAYOR.

ALDERMAN L. BOOTH, J.P.

„ R. BRITTON.

„ J. PHILLIPS, J.P.

COUNCILLOR J. BOTT.

„ W. CHARNOCK.

„ J. CHEETHAM, J.P.

„ E. DICKINSON.

„ H. LITHERLAND.

„ J. LOWE.

„ W. LOWE, J.P.

„ J. PARKINSON, J.P.

Committee meets on the 4th Monday in each month at 3 45 p.m.

## SANATORIUM SUB-COMMITTEE.

From November, 1908, to November, 1909.

CHAIRMAN :

COUNCILLOR G. WOLSTENHOLME, M.B., J.P.

THE MAYOR.

THE EX-MAYOR.

ALDERMAN J. PHILLIPS, J.P.

COUNCILLOR H. BARTON.

„ J. BRADSHAW.

„ M. BENSON, M.D., J.P.

„ W. HIGHTON.

„ A. E. MATHER.

„ THORLEY SMITH.

Committee meets the Wednesday before the 3rd Thursday in each month, at 11 a.m.

## INSANITARY HOUSES COMMITTEE.

From November, 1908, to November, 1909.

CHAIRMAN :

ALDERMAN A. BYWATER, J.P.

VICE-CHAIRMAN :

COUNCILLOR S. TYRER.

THE MAYOR.

THE EX-MAYOR.

ALDERMAN R. BRITTON.

„ H. SWIFT.

COUNCILLOR J. BOTT.

„ G. CAUSEY.

„ G. ELLISON.

„ R. T. FLETCHER.

„ W. HIGHTON.

„ H. LITHERLAND.

„ J. ROSCOE.

„ G. WOLSTENHOLME, M.B., J.P.

„ E. YATES.

The Committee meets when required.



## MEDICAL OFFICER OF HEALTH'S DEPARTMENT.

---

Medical Officer of Health and Medical Superintendent of Sanatorium :  
WILLIAM BERRY, F.R.C.S.I., D.P.H., F.P. & S., Glasgow.

Fellow of the Incorporated Society of Medical Officers of Health,  
Past President of North-Western Branch,  
Fellow of the Royal Sanitary Institute,  
Fellow of the Royal Institute of Public Health, and  
Fellow of the Royal Academy of Medicine, Ireland.

Assistant Medical Officer of Health :  
J. FOREMAN BERRY, M.B., B.Ch., St.And., L.R.C.P., & S.Ed.. &c.

Chief Sanitary Inspector :  
JOHN SUMNER, Certif. San. Inst., and Assoc. Royal  
San. Inst., Cert. City of London Guilds (Plumbing).

Assistant Sanitary Inspectors :  
CHARLES H. FRANCE, Certif. San. Inst.  
FRED MARTLEW, Certif. San. Inst.  
M. CLUNAN, Certif. San. Inst.

Smoke, Shop Hours Act, and Factory and Workshop Act :  
FRED G. BISHOP.

Sub-Inspector :  
ERNEST KNOWLES, Certif. San. Inst.

Clerk :  
JOHN ASHTON.

Enquiry Office :  
ERNEST RICHARDSON.

Disinfectors :  
JAMES RISLEY.  
GEORGE CROSTON.  
HENRY PARKINSON.

Master of Sanatorium :  
MICHAEL MOORE.

By order of the Local Government Board, dated March 23rd, 1891, Article 18, Section 14, it is prescribed that the Medical Officer of Health shall “ prepare an Annual Report, to be “ made to the end of December in each year, comprising a “ summary of the action taken during the year for preventing “ the spread of disease, and an account of the sanitary state “ of his district generally at the end of the year. The “ report shall also contain an account of the enquiries “ which he has made as to conditions injurious to health “ existing in his district, and of the proceedings in which “ he has taken part, or advised under the Public Health Act, “ 1875, so far as such proceedings relate to those conditions ; “ and also an account of the supervision exercised by him “ or on his advice, for sanitary purposes over places and “ houses that the Sanitary Authorities have power to “ regulate, with the nature and results of any proceedings “ which may have been so required and taken in respect of “ the same during the year. It shall also record the action “ taken by him or on his advice, during the year, in regard “ to offensive trades, and to factories and workshops. The “ report shall also contain tabular statements (on forms to “ be supplied by the Local Government Board, or to the “ like effect) of the sickness and mortality within the “ district, classified according to diseases, ages, and localities.”



## CORPORATION OF WIGAN.

## HEALTH DEPARTMENT,

MARCH, 1909.

*To the Chairman and Members of the Health  
Committee.*

GENTLEMEN,

I have pleasure in presenting you with my Thirteenth Annual Report on the Health of your County Borough for the year 1908.

The death-rate calculated on an estimated population of 92,114 is 16·97 per 1,000 of the population, against 18·03 for 1907, showing a decrease of 1·06.

The birth-rate is 31·85 against 30·05 for last year, being an increase of 1·80.

The total number of deaths from Zymotic diseases is 171, a rate of 1·85 against 2·60 in 1907.

The infantile deaths number 154 per 1,000 births, whilst that for England and Wales is 121.

Last year we had 163, whilst the rate for England and Wales was 118.

The number of deaths in persons over 60 years of age is 340, against 346 in 1907.

Measles was prevalent in May, and the following schools were closed:—

Warrington Lane Council School (Infants' Department),  
from May 15th, for 22 consecutive days.

Marsh Green Schools (all Departments), from May 16th,  
for 21 consecutive days.

St. Paul's School, Pemberton (all Departments), from  
May 16th, for 21 consecutive days.

St. John's Schools, Pemberton (all Departments), from  
May 25th, for 14 consecutive days.

The number of deaths from Measles was 5.

In the Small-pox Doecker we have treated 13 cases of Consumption sent in and paid for by the Board of Guardians. One left apparently cured, 7 improved, and 4 with no improvement, and 1 left Hospital on his own accord.

Scarlet fever has furnished us during the past year with 220 cases, against 175 in 1907. The death rate from Scarlet fever is  $\cdot 11$  against  $\cdot 099$ .

Enteric fever was prevalent in the months of October, November, and December, and we treated 69 in the Sanatorium. The death rate for Enteric fever was  $\cdot 28$ .

I tender my thanks to my colleagues in the Medical Profession (in Wigan and adjoining districts) for their co-operation and help.

To the staff I am particularly indebted for help during the past year, especially to Mr. Sumner and the Assistant Medical Officer of Health, both of whom have had extra work, owing to my enforced absence during a portion of the year.

In conclusion I must thank the Chairman, Vice-Chairman, and Members of the Committee for their forbearance and kind co-operation.

I am, Gentlemen,

Your obedient Servant,

WM. BERRY,

Medical Officer of Health.

REPORT

STATISTICAL SUMMARY FOR 1904

U.S. DEPARTMENT OF COMMERCE

BUREAU OF ECONOMIC RESEARCH

PART I.

VITAL STATISTICS.

PART I  
VITAL STATISTICS

# REPORT.

## STATISTICAL SUMMARY FOR 1908.

Population estimated July 1st, 1908 .....	92,114
<i>Marriages</i> are not ascertained for the County Borough.	
„ Annual rate per 1,000 of population ditto.	
<i>Births</i> { Males ..... 1484 } Total.....	2,934
{ Females ..... 1450 }	
Annual rate of births per 1,000 of population .....	31·85
Ditto for England and Wales.....	26·5
Illegitimate births 138, or 1·49 per 1,000 of population, a percentage of .....	4·6
<i>Deaths</i> { Males..... 802 } Total .....	1,564
{ Females..... 762 }	
Annual rate of mortality .....	16·97
Ditto in England and Wales.....	14·7
Death rate in 76 great towns .....	15·8
Ditto 142 smaller „ .....	14·7
Ditto Rural England and Wales .	13·8
Excess of registered births over deaths .....	1,370
Total deaths from zymotic diseases .....	171
Annual rate of mortality from zymotic diseases..	1·85
Ditto in England and Wales.....	1·29
Total deaths from diarrhoea.....	87
Annual rate of mortality from diarrhoea .....	·94
Infantile rate (deaths per 1,000 births), 1908 ...	154
Ditto for England and Wales .....	121
Deaths of infants under one day old, number ...	61

*Acreage.*—With an acreage of 5,082, and a population estimated at 92,114, we have 18·12 persons per acre.



*Population.*—The population estimated at the middle of the year (June 30, 1908) is 92,114, and this may be taken as fairly correct, in accordance with the number of inhabited houses on July 1st.

*Births.*—The number of births registered during 1908 is 2,934 (males 1,484, females 1,450), the rate per 1,000 of the population being 31·85. The birth rate, compared with 1907 is 1·80 higher. The illegitimate births number 138, or 4·6 per cent.

*The Mortality Rate.*—The deaths for 1908 number 1,564 (males 802, females 762), being an excess of 40 males over females. The rate per 1,000 of the population per annum is 16·97; in 1907, 18·03; thus on a population of 92,114 we have a decrease in deaths of 73 over 1907. There is therefore a decrease in the death-rate of 1·06 per 1,000.

The death rate for each quarter is as follows :—

1908.	All causes.	Zymotics.
1st Quarter .....	18·52	·87
2nd Quarter .....	14·71	·82
3rd Quarter .....	17·79	3·57
4th Quarter .....	17·34	2·17

The zymotic rate 1·85, shows a decrease for 1908. The previous year it was 2·60, showing a decrease of ·75. This is due to a decrease in the number of deaths from measles and whooping cough.

## THE VITAL STATISTICS FOR ENGLAND AND WALES DURING 1908

### ENGLAND AND WALES.

	1908.	1907.
Birth rate per 1,000 living .....	26·5	26·3
Death rate per 1,000 living .....	14·7	15·0
Seven epidemic diseases per 1,000 living.	1·29	1·26
Infant mortality per 1,000 births .....	121	118

TABLE I.

## WEEKLY RETURN OF BIRTHS AND DEATHS FOR 1908.

1908. WEEK ENDING.	Deaths from all Causes.	Annual Rate per 1,000.	Deaths from Zymotics.	Zymotic Rate.	Births.	Annual Rate per 1,000
January 4	26	14.89	3	1.71	61	34.95
" 11	37	21.20	1	.57	54	30.94
" 18	34	19.47	3	1.71	56	32.07
" 25	27	15.46	—	—	55	31.50
February 1	36	20.60	1	.57	55	31.48
" 8	42	24.04	3	1.71	67	38.35
" 15	31	17.73	—	—	62	35.46
" 22	32	18.30	2	1.14	43	24.59
" 29	36	20.59	2	1.14	47	26.88
March 7	29	16.58	2	1.14	58	33.16
" 14	24	13.71	1	.57	77	44.00
" 21	37	21.14	1	.57	59	33.71
" 28	30	17.13	1	.57	60	34.26
April 4	19	10.85	—	—	58	33.12
" 11	19	10.84	1	.57	67	38.24
" 18	16	9.12	—	—	49	27.95
" 25	34	19.38	2	1.14	66	37.62
May 2	20	11.40	2	1.14	57	32.49
" 9	32	18.23	2	1.13	64	36.46
" 16	31	17.66	1	.56	54	30.76
" 23	22	12.52	—	—	48	27.33
" 30	31	17.64	1	.56	63	35.85
June 6	23	13.09	2	1.13	48	27.31
" 13	25	14.22	4	2.27	59	33.56
" 20	29	16.48	1	.56	74	42.06
" 27	35	19.39	3	1.70	71	40.36
July 4	28	15.90	2	1.13	49	27.84
" 11	25	14.19	2	1.13	74	42.02
" 18	26	14.76	2	1.13	56	31.80
" 25	13	7.37	3	1.70	57	32.34
August 1	29	16.45	7	3.97	51	28.94
" 8	40	22.68	9	5.10	46	26.09
" 15	43	24.39	10	5.67	44	24.95
" 22	38	21.55	14	7.93	78	44.24
" 29	43	24.37	14	7.93	57	32.31
September 5	32	18.14	6	3.40	57	32.31
" 12	36	20.40	4	2.26	58	32.87
" 19	34	19.27	3	1.70	34	19.27
" 26	21	11.89	6	3.39	70	39.66
October 3	22	12.45	6	3.39	56	31.71
" 10	24	13.58	6	3.39	57	32.25
" 17	32	18.10	6	3.39	56	31.69
" 24	16	9.04	1	.56	54	30.54
" 31	29	16.40	4	2.26	57	32.23
November 7	32	18.08	4	2.26	56	31.65
" 14	42	23.74	5	2.82	59	33.35
" 21	49	27.69	2	1.13	40	22.61
" 28	27	15.26	3	1.69	50	28.26
December 5	33	18.64	2	1.12	50	28.24
" 12	34	19.20	3	1.69	51	28.81
" 19	31	17.51	3	1.69	39	22.03
" 26	28	15.81	5	2.82	46	25.97

**TABLE II.**

**MONTHLY TABLE OF DEATHS FROM ALL CAUSES  
AND ZYMOTIC DISEASES WITH RATES  
PER 1,000 PER ANNUM FOR 1908.**

MONTH.	No. of Deaths from all Causes.	Annual Rate per 1,000 living.	No. of Deaths from Zymotic Diseases.	Annual Rate per 1,000 living.	Deaths of	
					Infants under 1 yr.	Persons over 60 yrs
January .....	124	17.75	7	.99	27	35
February .....	177	20.25	8	.91	44	42
March .....	120	17.14	5	.71	25	30
April .....	88	12.54	3	.42	22	19
May .....	136	15.49	6	.67	25	38
June .....	112	15.92	10	1.41	32	22
July .....	92	13.05	9	1.27	25	21
August .....	193	21.88	54	6.12	88	33
September .....	123	17.42	19	2.68	41	21
October .....	123	13.91	23	2.55	38	26
November .....	150	21.19	14	1.97	47	30
December .....	126	17.79	13	1.83	39	23
Totals .....	1564	16.97	171	1.85	453	340

TABLE III.

TABLE SHOWING COMPARATIVE STATISTICS BETWEEN WIGAN  
AND OTHER TOWNS DURING 1908.

TOWN.	Popula- tion.	Birth Rate.	Death Rate.	Zymotic Rate.	Infantile Death rate per 1,000 Births.	Respira- tory Death Rate.	Phthisis Death rate
Accrington .....	46,000	22·00	14·39	1·82	137	2·58	·78
Bath .....	50,000	19·5	13·6	·96	79	2·21	1·12
Birkenhead .....	119,692	31·53	16·11	2·23	136	3·26	1·26
Blackburn .....	135,278	25·2	15·9	1·7	149	3·0	1·0
Blackpool .....	59,741	17·54	12·72	1·12	127	1·77	·79
Bootle.....	70,500	30·9	17·3	2·3	143	—	1·4
Bradford .....	292,136	20·14	15·37	1·46	143	2·40	1·30
Burton-on-Trent ...	53,000	22·4	12·90	1·0	111	1·7	1·28
Bury .....	59,064	23·31	15·89	1·15	129	2·51	1·07
Cardiff .....	191,446	27·0	13·2	1·14	124	2·04	1·14
Carlisle .....	50,047	24·4	13·4	·8	129	2·5	1·06
Coventry .....	91,000	28·9	13·3	·94	93	2·12	1·31
Crewe.....	48,359	24·2	11·06	·90	105	2·15	·4
Derby.....	127,583	26·1	13·15	1·1	108	1·8	·9
Halifax .....	107,500	19·7	14·5	1·0	101	2·4	1·3
Hastings .....	67,817	15·6	10·5	·46	81	1·50	1·18
Huddersfield.....	94,777	24·39	17·09	1·65	112	2·68	1·32
Hull .....	271,137	30·1	16·3	2·36	148	2·75	1·20
Lancaster .....	44,200	24·02	12·33	1·22	89	2·01	·81
Middlesbrough.....	103,511	36·06	19·95	3·1	158	4·7	1·2
Oldham .....	142,507	28·4	20·1	2·6	159	3·7	1·5
Plymouth .....	122,113	22·20	15·51	·93	129	3·03	1·19
Reading.....	82,549	22·37	12·08	1·37	98	1·82	·96
Rochdale .....	88,820	24·78	18·38	2·40	168	2·97	1·37
South Shields .....	115,535	30·1	15·5	1·74	133	2·33	1·19
St. Helens .....	93,812	35·29	16·0	1·32	122	3·14	1·20
Stockport .....	102,339	27·94	19·99	3·10	170	3·82	1·27
Swansea.....	107,620	30·6	17·0	1·49	150	2·41	1·66
Tottenham.....	143,383	26·36	11·02	1·00	95	·08	·49
West Bromwich ...	69,786	32·1	15·8	1·4	140	—	—
<b>WIGAN</b> .....	92,114	31·85	16·97	1·85	154	3·61	·81
Wolverhampton ...	103,535	25·8	13·9	1·18	132	2·81	·82
York .....	85,861	25·53	12·9	1·14	104	1·86	·87

TABLE IV.

## DEATH RATE FOR WIGAN DURING THE LAST TEN YEARS.

1899	21.91	} Average for 10 years, 20.02.
1900	21.95	
1901	22.30	
1902	20.25	
1903	21.69	
1904	21.49	
1905	18.07	
1906	17.61	
1907	18.03	
1908	16.97	

*Infantile Mortality.*—The number of deaths of children under one year is 453, or 154 per 1,000 births, and of children over one year and under five years 196 or 2.12 per 1,000 of the population.

In regard to this infantile mortality there were 61 deaths in children who did not live more than 24 hours, and if we deduct these there would only be 392 deaths, or 133 per 1,000 births; with a large birth rate we necessarily have a larger proportion of premature births.

*Senile Mortality.*—The number of deaths of persons of 60 years of age and over is 340, or 3.69 per 1,000 of population.

## NO. OF DEATHS IN DIFFERENT WARDS IN WIGAN, 1908.

<i>Est. Population.</i>	<i>Ward.</i>	<i>1st Quarter.</i>	<i>2nd Quarter.</i>	<i>3rd Quarter.</i>	<i>4th Quarter.</i>	<i>Totals.</i>	<i>Rate.</i>
4,945	1	34	14	31	29	108	21.84
5,694	2	19	14	21	24	78	13.69
7,334	3	35	44	37	29	145	19.77
9,448	4	53	47	44	47	191	20.21
4,568	5	19	23	21	21	84	18.38
5,721	6	28	15	22	24	89	15.55
5,311	7	27	13	36	16	92	17.32
12,848	8	66	58	62	66	252	19.61
8,186	9	30	30	21	17	98	11.97
3,929	10	12	16	11	11	50	12.72
4,634	11	15	8	11	19	53	11.43
7,888	12	35	24	43	43	145	18.38
6,098	13	25	12	24	25	86	14.10
6,179	14	23	18	24	28	93	15.05
92,783	Total ...	421	336	408	399	1564	16.85

### WIGAN CENSUS, 1901.

WARD.	Separate Families.	HOUSES.				Tenements with less than five rooms.	PERSONS.		Totals.
		In-habited.	Uninhabited.				Males.	Females.	
			In Occupation.	Not in Occupation.	B'ding.				
No. 1, or St. George Ward ...	959	919	87	17	...	753	2406	2524	4930
No. 2, or Lindsay Ward .....	924	913	22	12	6	592	2310	2472	4782
No. 3, or St. Catharine Ward	1234	1193	20	5	...	863	3169	3435	6604
No. 4, or St. Patrick Ward...	1586	1567	46	10	3	954	4714	4470	9184
No. 5, or St. Thomas Ward...	939	890	42	4	...	703	2394	2451	4845
No. 6, or Poolstock Ward ...	977	950	18	3	4	523	2424	2613	5037
No. 7, or Victoria Ward .....	999	949	33	4	4	688	2440	2586	5026
No. 8, or St. Andrew Ward...	1684	1662	29	14	29	501	4658	4622	9280
No. 9, or Swinley Ward .....	1386	1368	46	41	14	453	3224	4043	7267
No. 10, or All Saints Ward...	709	709	327	28	25	360	1811	1925	3736
Canal Boats .....	...	...	...	...	...	...	60	19	79
Wards not stated .....	...	...	...	...	...	...	...	...	...
<b>Totals.....</b>	<b>11388</b>	<b>11120</b>	<b>670</b>	<b>138</b>	<b>85</b>	<b>6390</b>	<b>29610</b>	<b>31160</b>	<b>60770</b>

Percentage of increase in population, England and Wales  
since Census of 1891 ..... 12·15.

The preceding period, 1881-91..... 11·65.

Increase in Wigan ..... 10·46.

## COUNTY BOROUGH OF WIGAN.

STATEMENT OF HOUSES BUILDING, EMPTY, AND INHABITED,  
ON 23RD JULY, 1908.

WARD.	HOUSES.			Estimated Population at 5·465 per Inhabited House.
	Building.	Empty.	Inhabited	
1 St. George.....	1	35	905	
2 Lindsay .....	—	7	1042	
3 St. Catharine .....	5	18	1342	
4 St. Patrick .....	—	34	1729	
5 St. Thomas .....	—	30	836	
6 Poolstock .....	—	16	1047	
7 Victoria .....	—	11	972	
8 St. Andrew .....	3	28	2351	
9 Swinley .....	—	65	1498	
10 All Saints .....	—	14	719	
<b>Total Parliamentary Borough.....</b>	<b>9</b>	<b>258</b>	<b>12441</b>	<b>67,990</b>
11 West Pemberton...	—	7	852	
12 North Pemberton...	1	12	1450	
13 Central Pemberton...	7	5	1121	
14 South Pemberton...	6	20	1136	
<b>Total Pemberton.....</b>	<b>14</b>	<b>44</b>	<b>4559</b>	<b>× 5·44 = 24,800</b>
<b>Total Municipal Borough.....</b>	<b>23</b>	<b>302</b>	<b>17000</b>	<b>92,790</b>

For Pemberton the average per house inhabited at Census 1901 was 5·44.

The figures for Parliamentary Borough were kindly supplied by Mr. R. Halliwell, J.P., on completion of the Survey for Registration purposes on 23rd July, 1908.

## LOCAL GOVERNMENT BOARD RETURNS.

TABLE I.—VITAL STATISTICS OF WHOLE DISTRICT DURING 1908 AND PREVIOUS YEARS. NAME OF DISTRICT—WIGAN (County Borough.)

YEAR.	Population estimated to Middle of each Year.	BIRTHS.		TOTAL DEATHS REGISTERED IN THE DISTRICT.			Total Deaths in Public Institutions in the District.	Deaths of Non-Registered in Public Institutions in the District.	Deaths of Residents registered in Public Institutions 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 1000 Births Registered	Number.						Rate.*
1	2	3	4	5	6	7	8	9	10	11	12	13
1898	59,590	2159	35.70	369	170	1182	19.54	225	91			
1899	60,165	2148	35.36	422	195	1368	22.63	253	116		1387	22.90
1900	60,740	2177	36.00	404	190	1520	25.06	290	133		1379	22.30
1901	60,923	2245	36.40	457	203	1537	24.87	280	158		1251	20.25
1902	61,827	2311	37.42	366	158	1393	22.58	269	142		1359	21.69
1903	62,689	2221	35.47	388	174	1511	24.09	313	152		1381	21.49
1904	64,249	2223	34.59	418	188	1528	23.78	301	147		1596	18.07
1905	88,306	2918	33.04	476	163	1717	19.44	277	121		1575	17.61
1906	89,342	2920	32.68	468	160	1713	19.17	294	138		1637	18.03
1907	90,765	2728	30.05	446	163	1751	19.29	276	114			
Averages for years 1898—1907	69,859	2405	34.67	421	176	1522	22.04	277	131		1445 (1900-1907)	20.29
1908	92,114	2934	31.85	453	154	1710	18.56	349	146		1564	16.97

\* Rates in columns 4, 8, and 13 calculated per 1,000 of estimated population.

Area of District in acres (exclusive of area covered by water) 5,082. At Census of 1901 the total population at all ages was 82,428; number of inhabited houses, 15,095; average number of persons per house 5.4. Institutions within the District receiving sick and infirm persons from outside the District: Royal Albert Edward Infirmary, Union Workhouse, Wigan Sanatorium and Pemberton Sanatorium. Is the Union Workhouse within the District? Yes.



TABLE II.—VITAL STATISTICS OF SEPARATE LOCALITIES IN 1908  
AND PREVIOUS YEARS.

Name of District—Wigan County Borough.

YEAR.	Population estimated to middle of each year.	Births registered.	Deaths at all ages.	Deaths under 1 year.
1898 .....	59590	2159	1182	369
1899 .....	60165	2148	1368	422
1900 .....	60740	2177	1520	404
1901 .....	60923	2245	1537	457
1902 ... ..	61827	2311	1393	366
1903 .....	62689	2221	1359	388
1904 .....	64249	2223	1381	418
1905 .....	88306	2918	1596	476
1906 .....	89342	2920	1575	468
1907 .....	90765	2728	1637	446
Averages of Years 1898 to 1907 ... }	69859	2405	1454	421
1908 .....	92114	2934	1564	453

TABLE III.  
 CASES OF INFECTIOUS DISEASE NOTIFIED DURING THE YEAR 1908.  
 Name of District, Wigan County Borough.

Notifiable Disease.	Cases Notified in Whole District.						Cases Removed to Hospital from Each Locality.						
	At all Ages.	At Ages—Years.					H. W. Wigan.	Haigh.	Ince.	Hindley.	Ashton-in-Makerfield.	Total cases removed to Hospital.	
		Under 1.	1 to 5.	5 to 15.	15 to 25.	25 to 65.							65 and upwards.
Diphtheria (including Membranous Croup) .....	36	—	12	18	4	2	—	1	—	—	—	—	
Erysipelas .....	71	1	7	7	11	42	3	—	—	—	—	—	
Scarlet fever .....	220	—	70	133	13	4	—	138	—	—	—	—	
Enteric fever .....	103	—	2	34	20	47	—	70	4	—	—	—	
Puerperal fever .....	12	—	—	—	3	9	—	—	—	—	—	—	
Phthisis .....	—	—	—	—	—	—	—	8	—	2	2	1	
Rheumatism .....	—	—	—	—	—	—	—	1	—	—	—	—	
Totals .....	442	1	91	192	51	104	3	218	4	2	2	1	227

Isolation Hospital—Wigan Sanatorium, Whelley, Wigan. Total available beds, 100. Number of Diseases that can be concurrently treated, 3.

Mark (H) the locality in which the hospital is situated. Mark (W) the locality in which the workhouse is situated.

TABLE IV.—CAUSES OF, AND AGES AT, DEATH DURING YEAR 1908.

Name of District—Wigan (County Borough).

CAUSES OF DEATH.	DEATHS IN OR BELONGING TO WHOLE DISTRICT AT SUBJOINED AGES.							Total Deaths in Public Institutions in District.
	All Ages	Under 1 Year.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and up- wards.	
Measles .....	5	—	4	1	—	—	—	—
Scarlet fever.....	11	—	5	6	—	—	—	—
Whooping-cough .....	24	15	9	—	—	—	—	—
Diphtheria and mem- branous croup .....	10	—	9	—	1	—	—	—
Fever—Enteric .....	26	—	—	4	7	15	—	—
Diarrhœa .....	87	66	19	—	—	2	—	—
Enteritis .....	48	43	5	—	—	—	—	—
Puerperal fever .....	8	—	—	—	—	8	—	—
Phthisis (Pulmonary Tuberculosis) .....	75	—	7	2	20	45	1	—
Other tubercul'r diseases	77	22	21	11	11	9	3	—
Cancer, malign'nt dis'ase	38	—	—	—	—	33	5	—
Bronchitis .....	154	18	7	1	2	78	48	—
Pneumonia .....	179	51	46	9	4	56	13	—
Alcoholism .....	4	—	—	—	—	3	1	—
Cirrhosis of liver... }	13	—	—	—	—	13	—	—
Premature birth .....	62	62	—	—	—	—	—	—
Diseases and accidents of parturition .....	14	—	—	—	2	12	—	—
Heart diseases .....	61	1	—	2	4	36	18	—
Accidents .....	46	—	12	6	3	24	1	—
Suicides .....	6	—	—	—	—	6	—	—
Rheumatism .....	13	1	1	2	3	5	1	—
Convulsions.....	12	7	4	1	—	—	—	—
Wasting .....	48	41	7	—	—	—	—	—
All other causes .....	543	126	40	21	20	181	155	—
All causes .....	1564	453	196	65	78	526	246	349

STATEMENT OF DEATHS OCCURRING IN WIGAN, BUT NOT BELONGING TO WIGAN.

Deaths from Accidents .....	31
„ Bronchitis .....	9
„ Cancer .....	7
„ Heart Affections .....	10
„ Other Diseases .....	66
„ Phthisis .....	5
„ Pneumonia .....	8
„ Other Tubercular Diseases .....	4
„ Suicide .....	1
„ Enteric .....	3
„ Diarrhœa .....	1
„ Wasting Diseases .....	1

TABLE V.

BOROUGH OF WIGAN (COUNTY BOROUGH).

INFANTILE MORTALITY DURING THE YEAR 1908.

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.	1-2 Months.	2-3 Months.	3-4 Months.	4-5 Months.	5-6 Months.	6-7 Months.	7-8 Months.	8-9 Months.	9-10 Months.	10-11 Months.	11-12 Months.	Total Deaths under 1 Year.
<i>All Causes ;</i>																	
Certified .....	86	13	16	10	125	26	32	42	32	32	44	31	20	28	21	18	451
Uncertified .....	2				2												2
<i>Common Infectious Diseases :</i>																	
Chicken-pox .....																	
Diphtheria (including Membranous Croup)...																	
Whooping Cough .....			1		1		1	2	1	3				3	2	2	15
<i>Diarrhoeal Diseases :</i>																	
Diarrhoea, all forms .....				1	1	2	5	9	11	5	10	7	5	2	5	4	66
Enteritis, Muco-enteritis, Gastro-enteritis...						2	7	8	4	5	5	1	2	2	3	2	41
Gastritis, Gastro-intestinal Catarrh...							1						1				2
<i>Wasting Diseases :</i>																	
Premature Birth .....	48	5	2	1	56		3	3									62
Congenital Defects.....	7	2		2	11	1		1								1	14
Injury at Birth .....	2				2												2
Want of Breast - milk, Starvation...							1						1				2
Atrophy, Debility, Marasmus...	10	3	6	2	21	5	5	7	2	7	3	3	5	2	1		61
<i>Tuberculous Diseases :</i>																	
Tuberculous Meningitis..	1				1					1	3	1	1	1	1	1	10
Tuberculous Peritonitis :																	
Tabes Mesenterica...								2			1	1	1		1		6
Other Tuberculous Dise's									1	1	1	3		1	1		8
<i>Other Causes :</i>																	
Syphilis .....																	
Meningitis (not Tuberc'l's)						1	1	1	3	2	3		2	1	1		15
Convulsions.....			1		1		2				1	1		2			7
Bronchitis .....			1	2	3	4	1	2	3	1	1				1	2	18
Laryngitis .....														1		1	2
Pneumonia .....			3		3	2	4	4	2	5	6	8	3	5	4	5	51
Other Causes .....	20	3	2	2	27	9	2	4	4	4	7	5		8	1		71
	88	13	16	10	127	26	32	42	32	32	44	31	20	28	21	18	453

District of Wigan.

Population (estimated to middle of 1908), 92,114.

Births in the year—Legitimate, 2,796.

Illegitimate, 138.

Deaths from all Causes at all Ages, 1,564.

## LIST OF STREETS IN WHICH DEATHS FROM THE FOLLOWING DISEASES OCCURRED IN 1908.

Street.	Ward.	Small-pox.	Scarlet.	Enteric.	Typhus.	Diphtheria.	Whoop. Cough.	Measles.	Diarrhoea.	Pulmonary.	Rheumatism.	Cancer.	Others.	Total.	Street.	Ward.	Small-pox.	Scarlet.	Enteric.	Typhus.	Diphtheria.	Whoop. Cough.	Measles.	Diarrhoea.	Pulmonary.	Rheumatism.	Cancer.	Others.	Total.		
Alliance Street..	1													2	2	Bridgewater St.	12							1	1			3	5		
Altham's Yard..	1													2	2	Billinge Road...	13							5	5		2	19	31		
Arundel Street..	2									1				3	4	Bold Street .....	13												1	1	
Ascroft Street ...	4													2	2	Bentinck Street.	14		1		1			1	1			4	8		
Anderton Street.	4													1	4	Back Sydney St.	14												1	1	
Ashton Street ..	4													4	4	Brackley Street.	14					2		1				4	7		
Ashcroft's Yard.	5								1					1	1	Clarence Street..	1								2			2	2		
Adelaide Street.	5									2				2	4	Castl Street .....	2								1			1	2		
Acton's Walk ...	5								1	2				3	3	Coop Street .....	2					1			1			6	8		
Ann Street .....	5													1	1	Caunce Street ...	3	1							3	1	12	17			
Ashton's Yard...	5													1	1	Caunce Road ...	3							2				1	3		
Addison Street.	7													1	1	Catherine Tr'ce.	3											1	1		
Ascroft Avenue .	8									1				1	1	Chatham Street.	4												1	1	
Avondale Road.	9									1				1	1	Cambridge St....	4						1	2				8	11		
Acton Terrace	9													1	1	Chancery Street	4												1	1	
Alfred Street ...	9									1				2	3	Caroline Street	5								2			4	6		
Ashland Avenue	9													1	1	Chapel Street...	5								1	1		1	3		
Atherton's Yard, Hallgate .....	10													2	2	Cross Street.....	5											3	3		
Albert Street ...	12								2	6				4	12	Canal Yard .....	5											1	1		
Alexandra St....	12									1				1	1	Chapel Lane .....	5							1				1	2		
Argyle Street ...	12									1				1	2	Carlton Street ..	6								1				1	1	
Atherton Street	12								1					2	3	Chapel Lane ...	6												1	1	
Alfred Street ...	14													2	2	Chadwick Street	6		1						1			2	4		
Algernon Street	14									1				2	2	Cudworth Street	6						1						1	2	
Ash Street .....	14													1	1	Corporation St..	6								2			6	8		
Bold Street .....	1									1				1	1	Cowling Street..	6								1				1	1	
Butler Street ...	1													2	3	Coronation St. ...	6												1	1	
Boys' Well Lane	1									1				6	7	Crown Street ...	6								1				1	2	
Back Water St.	1								1					1	1	Clayton Street...	7						2	6			5	13			
Bank Terrace ...	2													1	1	Canal Street.....	8							1					1	1	
Bottling Wood.	2													7	9	Charles Street...	9											3	3		
Bradshaw Street	2													1	1	Coppull lane ...	9											2	2		
Bath Street .....	3													1	1	Chapel Lane .....	10							1				2	3		
Baron Street ...	3													4	4	Crook's Yard ...	10												1	1	
Bedford Street..	3	2								1				1	4	Chapel Street ...	11								1				1	2	
Bolton Street ...	3									1	2			7	10	Church Street...	11												1	1	
Birkett Bank ...	3													2	2	Charnock's Yard	11												1	1	
Birkett Street ...	3													1	1	Cawdor Street...	12												1	1	
Birkett Bank ...	4									1				2	3	Chatsworth St.	13												1	1	
Bankes Street ...	4													1	1	California Street	14		1											1	1
Bryham Street...	4													1	3	Clappgate Lane...	14												4	4	
Belvoir Street ...	4									2				2	2	Clifton Street. ...	14												1	1	
Bradshawgate ...	4													1	2	3 Court, Marsh St	14												1	1	
Brookhouse St...	4									2				2	2	Derby Terrace...	1							1					1	1	
Brown's Yard ...	5									1				1	1	Douglas Terrace	1												1	1	
Bradford Street.	5													1	1	Derby Street ...	2												2	2	
Bradford Place..	5													2	2	Darlington St. ...	4												2	2	
Bridge Street ...	5													3	4	Darlington St. E.	4								2				9	11	
Byrom Street ...	6													4	1	Dean Street .....	4												2	2	
Byron Street ...	6									1				1	1	Driving Lane ...	5							1					3	4	
Brown Street ...	7													1	1	Dawber Terrace.	7												1	1	
Bigham's Yard..	7													1	1	Delph Street ...	8												1	1	
Ben-on's Yard ...	8									1				2	2	Dicconson Street	9									1			6	7	
Beech Hill Lane	8									2				2	2	Duke Street .....	9						1					1	4	6	
„ Avenue	8													1	1	Douglas Road ...	9												1	1	
Barnsley Street.	8									2				1	5	Douglas Street..	10											1	2	3	
Buckley Street..	8													1	1	Darlington St....	10								1			1	1	3	
Buckley Houses	9													1	1	Dorning Street..	10												4	4	
Bridgeman Ter..	9									1				1	2	Douglas Terrace.	12												1	1	
Bankes' Yard ...	9													1	1	Douglas Street...	12								1				2	3	
Barton Street ...	11													1	1	Delf Houses .....	14									1				1	1
Brickeroft.....	11													1	1	Duke Street.....	14			1									2	3	
Brook Lane.....	11									1				1	1	Every Street.....	1									2			2	4	
														1	1	Eckersley Street	12								1				1	1	



Street.	Ward.	Small-pox.	Scarlet.	Enteric.	Typhus.	Diphtheria.	Whoop. Cough.	Measles.	Diarrhoea.	Pulmonary.	Rheumatism.	Cancer.	Others.	Total	Street.	Ward.	Small-pox.	Scarlet.	Enteric.	Typhus.	Diphtheria.	Whoop. Cough.	Measles.	Diarrhoea.	Pulmonary.	Rheumatism.	Cancer.	Others.	Total.
Marsh's Court..	5			1										3	Poolstock Lane	14			2						2			1	9
Morris Yard ...	5												1	1	Princess Street..	14								1				3	4
Melverly Street	6												2	2	Queen Street ...	5								1	3			4	8
Milton Street ...	6												3	3	Queen's Hotel														
Mill Street .....	7												1	1	Yard .....	7								1				1	
Miry Lane .....	7								2	1		1	5	9	Queen Street	13								1				1	
Mason Street'	7												1	1	Rigby's Yard ...	1				1			1				1	4	
Moore's B'ldngs	8								1				1	2	Russell Street ...	1								1			2	3	
Moss Street .....	8											1	1	1	Regent Street ...	2							1				4	5	
Margaret Street	8												2	2	Roscoe Street...	4		1										3	
Moorfield Street	8								1				3	4	Rupert Street ...	4												3	3
Meadow Street..	8												1	1	Riley's Yard ...	5							1				1	1	
Mesnes Street ...	9												1	1	Rylands Street..	8								1			3	4	
Molyneux Yard	9									1				1	1	Ratcliffe Street..	8										1	1	
Mar'bonne Pl'ce	9									1			3	4	Richmond Street	10								1			3	4	
Milgate .....	10												3	3	Robin Hood Yd.	10											2	2	
Major Street ...	11												1	1	Richmond Hill..	11							1				1	2	
Moss Terrace ...	11												1	1	Rainford Houses	14											1	1	
Marsden Street	12								1					1	1	Richmond St...	14		1		1						1	3	
Marsh Green ...	12								1	1			7	9	Rigby's Yard ...	14											1	1	
Mitchell Street.	12									3		1	3	7	Station Road ...	1								1			1	1	
Mooney's Yard	12									1				1	1	Scholes ...	1							1			3	4	
Marsh Street ...	14												3	3	School Lane.....	1											3	3	
Neville Street ...	3								2				1	3	Schofield's Yard	1								1			1		
Newark Street...	8												1	1	School Street ...	1								3			9	12	
New Market St.	9												1	1	Standishgate ...	1											2	2	
New Square.....	9												1	1	San Terrace...	1							1			2	3		
New Street .....	11												3	3	Scholes ...	2											2	2	
New Row .....	11												1	1	Salmon Street ...	3							1				1	1	
Noble Street ...	12			1						1			2	2	Sole Street .....	3											2	2	
Norfolk Street...	12												3	3	Seed Street.....	3						1					1	1	
Northumber'nd													3	4	Scholes ...	3								1			3	4	
Street.....	14			1									3	4	Stanly Square..	3							1				1	2	
Orchard Street..	1												1	1	Stanley Street...	3							2				5	7	
Oxford Street..	2											1	4	5	Scholefield Lane	3								3			3	6	
Ormandy's															Swift's Square...	3								1				1	2
Houses .....	6								1				2	3	Scholefield Lane.	4								1			12	13	
Oldfield Street...	6					1			1				1	3	St. Patrick Street	4								1			3	4	
Orpington Street	11												1	1	Scholes ...	4							1				1	2	
Ormskirk Road.	11								1	2			8	11	Stuart Street ...	4											1	1	
"	12									2			1	10	16	Spring Street ...	4		1		1	1	3			3	9		
"	13									1				11	12	Spring Grove ...	4										2	2	
Orrell's Yard ...	14															1						1	1			7	10		
Primrose Hill...	2												4	4	Sovereign Road.	4								1			2	3	
Perch Street ...	3												1	1	Shared Street...	4							1	1			1	3	
Platt Lane .....	3			1			1		1	4	1		14	22	St. James's Terr.	6											1	1	
Prescott's Yard.	4						1						1	1	Seven Stars Rd..	6							1				1	1	
Peers' Yard .....	5												1	1	Sandon Street ...	6											1	1	
Princess Street	5								1	2	1		4	8	Sharpe Street...	7								1			1	2	
Potter's Square.	5									1			1	1	Snake Street ...	7											1	1	
Poolstock .....	6									2			4	6	Swann Street ...	7			1				1	1			2	5	
Pool Street .....	6			1									6	7	Stratford Street.	8								1			1	1	
Park Street .....	6								1				2	2	Stopforth Street	8											2	2	
Pottery Street..	6												2	2	Second Avenue.	8											1	1	
Pottery Road ...	6									1			1	2	Standishgate .....	9							1			4	5		
Peet Street .....	6									2			4	7	Swinley Road ...	9							1				1	2	
Pennyhurst St...	7												1	1	Swinley Street..	9											1	1	
Pitt Street .....	7									3			4	7	Swinley Lane ...	9											2	2	
Prescott Street..	8								1	4			5	10	Scarisbrick St ...	9											3	3	
Park Road .....	8									1			1	2	Springfield St...	9											1	1	
Pagefield Street	8									1			2	3	Sutton Mill														
Penson's Yard..	9									1			1	1	Common .....	9											1	1	
Pennington's Yd	11									1		1	1	2	Saracen's Head									1			1	1	
Poke Street.....	11									1			1	2	Yard .....	9											1	1	
Preston's Yard	12												1	1	Stirling Street...	9								1	1	1	2	4	



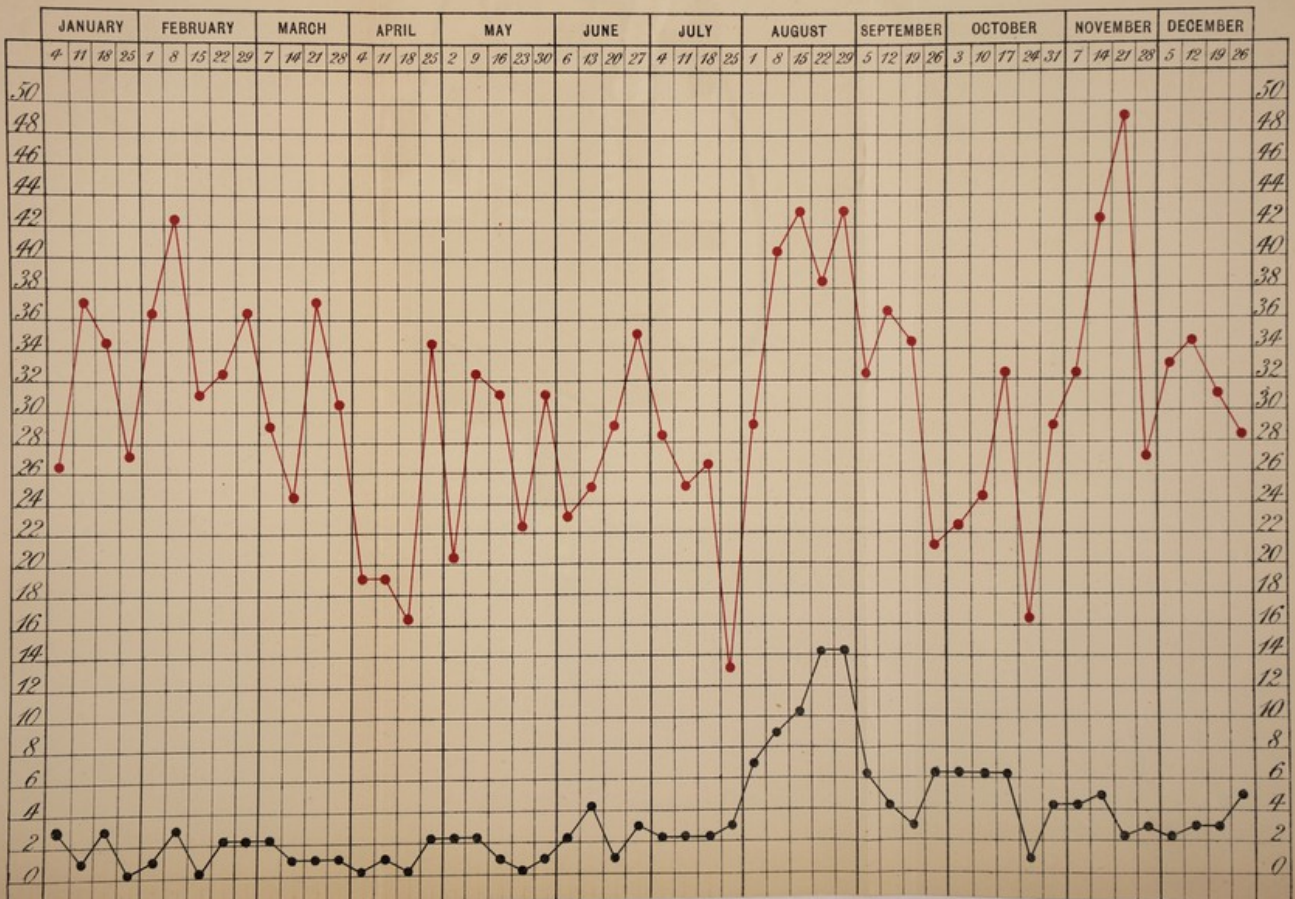




# DEATH RETURNS CHART, I.

1908.

All Causes (Red)  
Zymotics (Black)



NAME: \_\_\_\_\_ GRADE: \_\_\_\_\_

DATE: \_\_\_\_\_



PART II.

**THE ZYMOTIC DISEASES.**

**CONSTITUTIONAL DISEASES.**

**LOCAL DISEASES.**

**INQUESTS.**

PART II.

THE ZYMOTIC DISEASES.

CONSTITUTIONAL DISEASES.

LOCAL DISEASES.

INQUESTS.

# CAUSES OF DEATH.

## THE ZYMOTIC DISEASES.

The Mortality from the principal Zymotic Diseases, namely, Small Pox, Scarlet Fever, Measles, Whooping Cough, Typhus, Enteric Fever, Puerperal Fever, Diphtheria, and Diarrhœa, gives us a rate of 1·85 per 1,000 of the population, against 2·60 in 1907.

The deaths numbered 171.

The Zymotic rate, 1·85, is made up as follows :—

	DEATHS PER 1,000.	
	1908.	1907.
Small Pox.....	...	...
Scarlet Fever .....	·11	·099
Measles .....	·054	·82
Whooping Cough .....	·26	·55
Typhus .....	...	...
Enteric .....	·28	·24
Diphtheria.....	·10	·15
Diarrhœa .....	·94	·66
Puerperal .....	·086	·055
Erysipelas.....	...	·011

The Zymotic rate during each of the four quarters was :

	1908.	1907.
1st Quarter .....	·87	2·31
2nd " .....	·82	2·79
3rd " .....	3·57	3·18
4th " .....	2·17	2·15

## TABLE OF ZYMOTIC DISEASES.

	Notified.	Died.	Case Mortality per cent.
Small Pox .....	...	...	...
Scarlet Fever .....	220	11	5·00
Enteric Fever .....	103	26	25·24
Diphtheria.....	36	10	27·77
Measles .....	354	5	1·41
Whooping Cough.....	...	24	...
Diarrhœa .....	...	87	...
Puerperal Fever .....	12	8	66·66
Erysipelas .....	71	...	...

## DEATH RATES, 1908.

Disease.	No. of Deaths	Rate.
Small Pox .....	...	...
Measles .....	5	·054
Scarlet Fever .....	11	·11
Diphtheria and Croup .....	10	·10
Whooping Cough .....	24	·26
Enteric Fever .....	26	·28
Erysipelas .....	...	...
Septicæmia .....	...	...
Puerperal Fever .....	8	·086
Diarrhœa .....	87	·94
Phthisis .....	75	·81
Other Tubercular Diseases .....	77	·83
Bronchial Diseases .....	154	1·67
Pulmonary Diseases .....	179	1·94
Wasting Diseases of Infants .....	48	·52
Convulsive " " .....	12	·13
Cancer .....	38	·41
Rheumatism .....	13	·14
Diseases of Heart .....	61	·66
Other Diseases .....	736	7·99
Total .....	1564	16·97

Number of notifications compared with other years :—

Disease.	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908
Small Pox .....	0	0	0	0	0	4	66	2	3	0	0	0
Typhus .....	1	0	0	0	0	0	0	0	0	0	0	0
Scarlet .....	191	420	245	484	264	557	362	191	325	256	175	220
Enteric .....	64	93	173	104	71	76	51	56	133	138	107	103
Continued .....	0	0	0	0	0	0	0	0	0	0	0	0
Diphtheria .....	23	12	13	20	49	58	38	9	49	49	66	36
Puerperal .....	7	4	4	4	8	10	5	8	16	9	8	12
Cholera .....	1	0	0	0	0	0	0	0	0	0	0	0
Erysipelas .....	0	0	0	39	65	65	51	47	92	86	77	71
Mem. Croup .....	0	0	0	0	0	2	0	0	0	0	0	0
Total .....	287	529	435	651	457	772	573	313	618	538	433	442

Analysis of Notifications :—

1908.	Jan.	Feb.	Mar.	Apl.	May	Jun	July	Aug	Sep.	Oct.	Nov	Dec.	T'tl
Small Pox .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Scarlet .....	11	7	15	13	8	16	14	8	18	37	39	34	220
Typhus .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Enteric .....	7	5	5	5	5	2	6	9	8	21	12	18	103
Continued .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Diphtheria .....	3	4	2	5	...	2	2	2	2	3	9	2	36
Puerperal .....	1	2	1	...	2	...	1	1	2	1	1	...	12
Erysipelas .....	7	3	4	7	5	3	9	4	6	11	4	8	71
Cholera .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Total .....	29	21	27	30	20	23	32	24	36	73	65	62	442

## SMALL POX.

I am pleased to note that we have had no cases notified, but you will see by the list of towns that it is not absent from England.

I mention this to show that there is a necessity for our Doecker Hospital being ready and properly equipped.

### VACCINATION RETURNS, 1907—1908.

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

	January to June, 1908.	The whole of 1907.
Births Registered .....	1,118	2,002
Successfully Vaccinated .....	825	1,594
Insusceptible .....	2	1
Exemptions, Section 2, 1899..	97	58
Died Unvaccinated .....	109	218
Postponed by Certificates ....	18	14
Left Town and Reported to other Districts .....	12	14
Cannot Trace .....	10	38
Refusals and not Accounted for	45	65

Total Number of Successful Vaccinations, all ages, 1905 .. 1868

    "                    "                    "    1906 .. 1801

    "                    "                    "    1907 .. 1754

    "                    "                    "    1908 .. 1738

Deaths of Infants under 12 months in 1902 .....

    "                    "                    1903 .....

    "                    "                    1904 .....

    "                    "                    1905 .....

    "                    "                    1906 .....

    "                    "                    1907 .....

    "                    "                    1908 .....



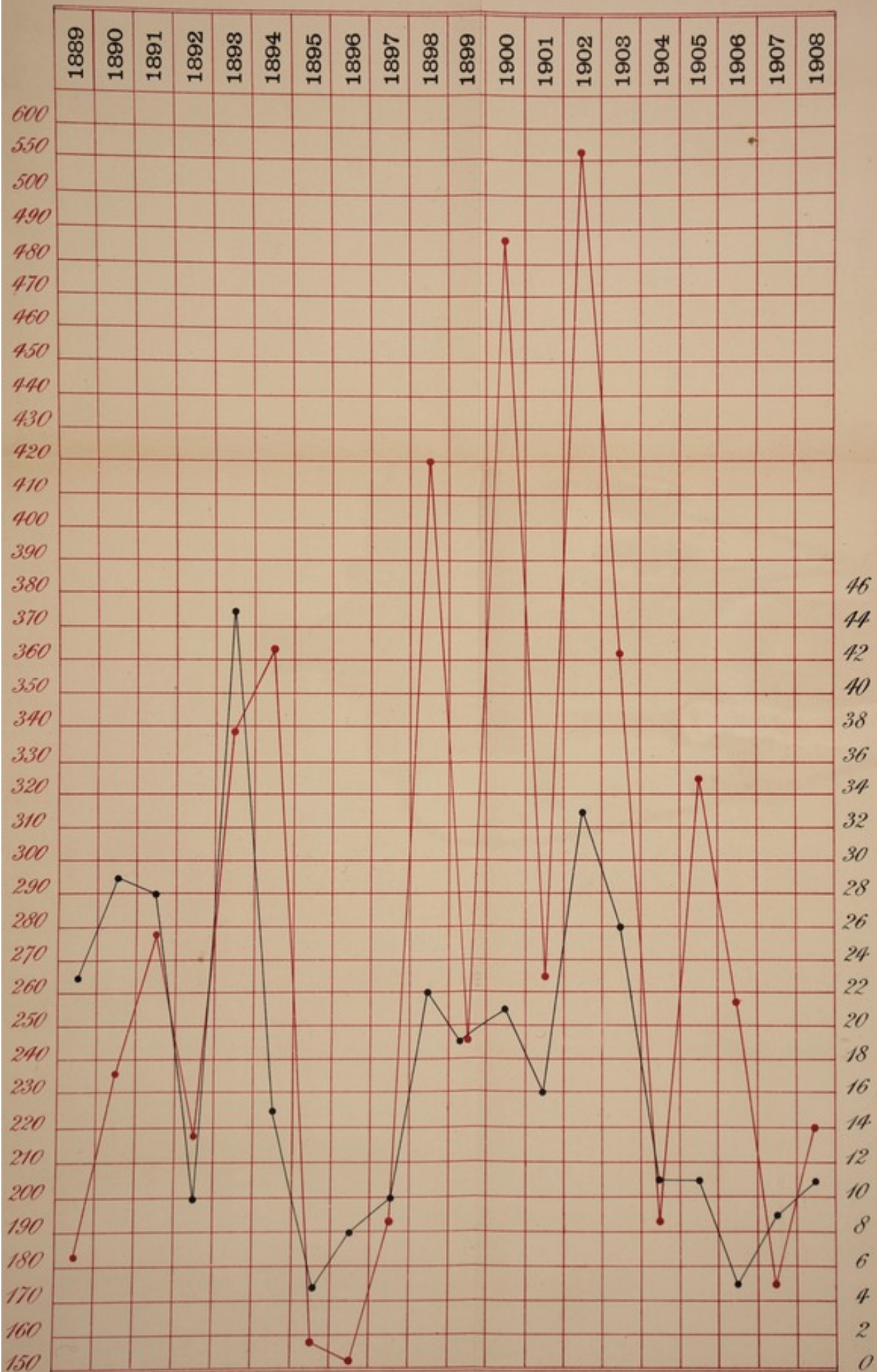
LIST OF TOWNS IN WHICH CASES OF SMALL POX OCCURRED  
IN 1908.

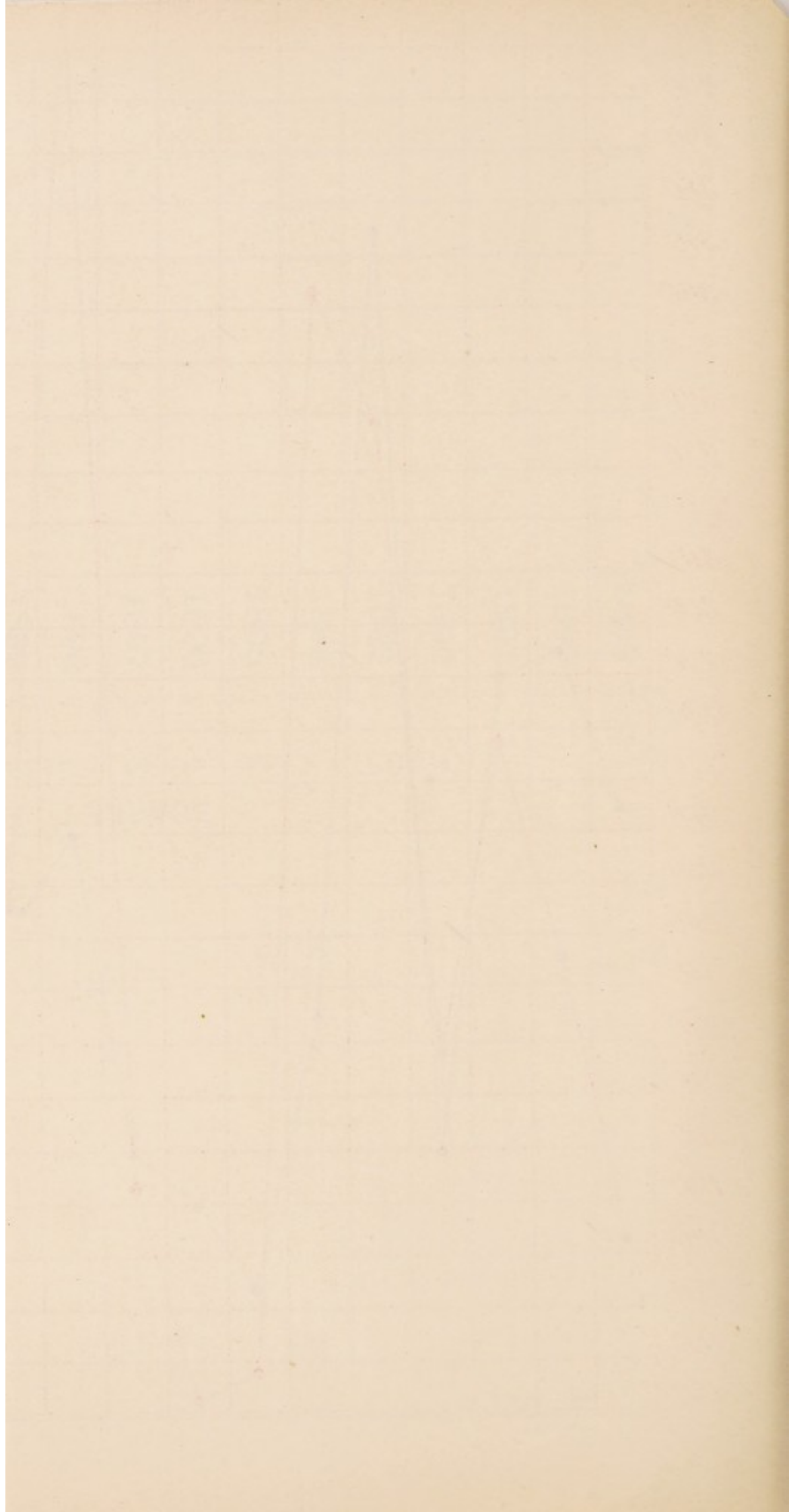
Date.	Town.	No. of Cases.
February 22nd .. ..	Tottenham .. ..	1
March 28th .. ..	Leyton .. ..	1
March 28th .. ..	Stockport .. ..	1
April 25th .. ..	Dover .. ..	1
May 30th .. ..	Southampton .. ..	2
June 27th .. ..	Dewsbury .. ..	1
August 8th .. ..	Liverpool .. ..	1
August 15th .. ..	Wallasey .. ..	1
August 15th .. ..	Liverpool .. ..	1
August 29th .. ..	Birkenhead.. ..	2
September 19th .. ..	London .. ..	1
October 10th.. ..	Sunderland .. ..	1
October 17th.. ..	Poole .. ..	1
October 31st .. ..	Wallsend .. ..	2
November 21st .. ..	Birkenhead.. ..	1
December 5th .. ..	Birkenhead.. ..	1
December 12th .. ..	London .. ..	1

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# SCARLET FEVER.

CHART :—Cases notified in red • Deaths in Black •





## SCARLET FEVER.

Number of Notifications.....	220
Number of Deaths .....	11
Death-rate per 1,000 of Population.....	·11

The number of notifications of this disease is for 1908, 220, against 175 in 1907; and 11 deaths, against 9 in 1907.

	Notifications.	Removed to Sanatorium.	Deaths.
January .....	11	6	2
February .....	7	7	1
March .....	15	11	2
April.....	13	5	...
May .....	8	5	...
June .....	16	13	2
July .....	14	10	...
August .....	8	7	...
September .....	18	15	2
October .....	37	25	1
November .....	39	17	...
December .....	34	17	1
<b>Total.....</b>	<b>220</b>	<b>138</b>	<b>11</b>

The percentage of removals to Sanatorium has been 62·72, against 53·14 in 1907, and 49·21 in 1906.

The number of return cases during the year was 3, and the causation has been difficult to define. In some cases it appeared that the discharged patient got a coryza or cold, and thus infected the other child. We have had 11 deaths amongst those notified, 7 occurred in hospital, and these were severe cases when sent in; this equals 7 in 62·72 per cent. of cases removed, and the remaining four cases were in the remaining 37·28 per cent. left at home, so we may take it that the fatality amongst those cases left to be nursed in better houses, with parental care and nursing, gives us a death-rate, per cent., of 4·87, against 5·07 in hospital.

## SCARLET FEVER.—RETURN CASES, 1908.



- 1.—1, THIRD AVENUE.—First case notified November 27th, 1907, and removed to Sanatorium on November 29th, 1907; returned home on December 27th, 1907.—Second case commenced on January 13th, 1908, was notified, and removed to Sanatorium on January 13th, 1908.
  
- 2.—14, PORTLAND STREET.—First case notified, and removed to Sanatorium on July 6th, 1908; returned home on August 14th, 1908.—Second case commenced on September 5th, 1908, was notified and removed to Sanatorium on September 8th, 1908.
  
- 3.—15, MOSS STREET.—First case notified, and removed to Sanatorium on September 21st, 1908; returned home on December 1st, 1908.—Second case commenced on December 16th, 1908, was notified, and removed to Sanatorium on December 22nd, 1908.

## BOROUGH OF WIGAN.

Notification of Disease adopted March, 1889. Hospital  
opened 1891.

## SCARLET FEVER.

Year.	Estim. Population.	Cases Notified.	Under Five Years.	Deaths.	Cases in Hospital.	Attacks per 1,000.	Deaths per 1,000.	Rem v'ls Per cent. per Annum.
1889	53916	182	76	23	15	3·37	·42	8·24
1890	54440	235	163	29	83	4·31	·42	35·31
1891	55084	278	198	28	150	6·86	·50	39·68
1892	56040	218	117	10	79	3·89	·17	30·69
1893	57483	336	211	45	183	5·84	·78	54·49
1894	58529	361	215	15	200	6·16	·25	55·40
1895	59469	157	84	5	92	2·64	·08	58·59
1896	60235	151	83	8	43	2·50	·13	28·47
1897	61202	191	84	10	95	3·12	·16	49·74
1898	61697	420	220	22	189	6·80	·35	45·00
1899	62630	245	129	19	142	3·91	·30	57·95
1900	63440	485	159	21	211	7·63	·33	42·59
1901	60923	264	92	16	155	4·00	·26	58·70
1902	61827	557	190	33	246	9·00	·53	44·16
1903	62689	362	119	26	205	5·77	·41	56·63
1904	64249	191	88	11	130	2·97	·17	68·06
1905	88306	325	131	11	207	3·68	·12	63·69
1906	89342	256	96	5	126	2·87	·055	49·21
1907	90765	175	70	9	93	1·92	·099	53·14
1908	92114	220	69	11	138	2·38	·11	62·72

## AGE INCIDENCE OF SCARLET FEVER.

	YEARS.												Total.				
	MONTHS.				1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9		9-10	10-11	11-12	15-20
Ages]	1-3	3-6	6-9	9-12	6	13	24	24	25	33	19	12	7	38	7	10	220
Total Number of Notifications.....	2				67				96				55				
Under 1 year .....																	
From 1 to 5 years .....																	
"    5 to 10 years .....																	
Over 10 years .....																	
Sickness rate per 1,000 of the Population at each age .....	0	.010	0	.010	.065	.141	.260	.260	.271	.358	.206	.130	.075	.412	.075	.010	2.38
Deaths at different ages .....	0	1	0	0	1	2	1	0	4	1	0	0	0	1	0	0	11
Percentage Mortality .....	0	100.0	0	0	16.6	15.3	4.1	0	16.0	3.0	0	0	0	2.6	0	0	5.0
All under 1 year .....	1																







## MEASLES.

The total number of cases notified for 1908 was 354, against 1,571 cases in 1907. These 354 were notified to the inspectors when inquiring into notifiable cases.

The deaths numbered 5, or a rate of .054 per 1,000 of the population, or a percentage mortality of 1.41 of known cases, against 4.77 in my last report, and 3.16 per cent. in 1906.

Voluntary notification of the first case of Measles having ceased we have no means of ascertaining the number of cases.

The reason we get voluntary notification by the parents, is generally so that some cleansing of the house may take place afterwards. The following is a list of voluntary notifications to the inspectors :—

1908.	Notifications.	Deaths.
January .....	—	—
February .....	—	—
March .....	1	—
April .....	13	—
May .....	82	—
June .....	27	—
July .....	26	3
August .....	10	—
September .....	22	1
October .....	69	1
November .....	64	—
December .....	40	—
	354	5

## AGE INCIDENCE.

1908.	Under 1 year.	1-5 years	5-15 years.	15-25 years.	25-65 years.	Total.
January .....	—	—	—	—	—	—
February .....	—	—	—	—	—	—
March .....	—	—	1	—	—	1
April .....	—	4	8	—	1	13
May .....	3	17	62	—	—	82
June .....	2	11	14	—	—	17
July .....	1	14	11	—	—	26
August .....	2	5	3	—	—	10
September .....	2	9	11	—	—	22
October .....	2	19	48	—	—	69
November .....	1	21	42	—	—	64
December .....	1	11	27	—	1	40
Total .....	14	111	227	—	2	354

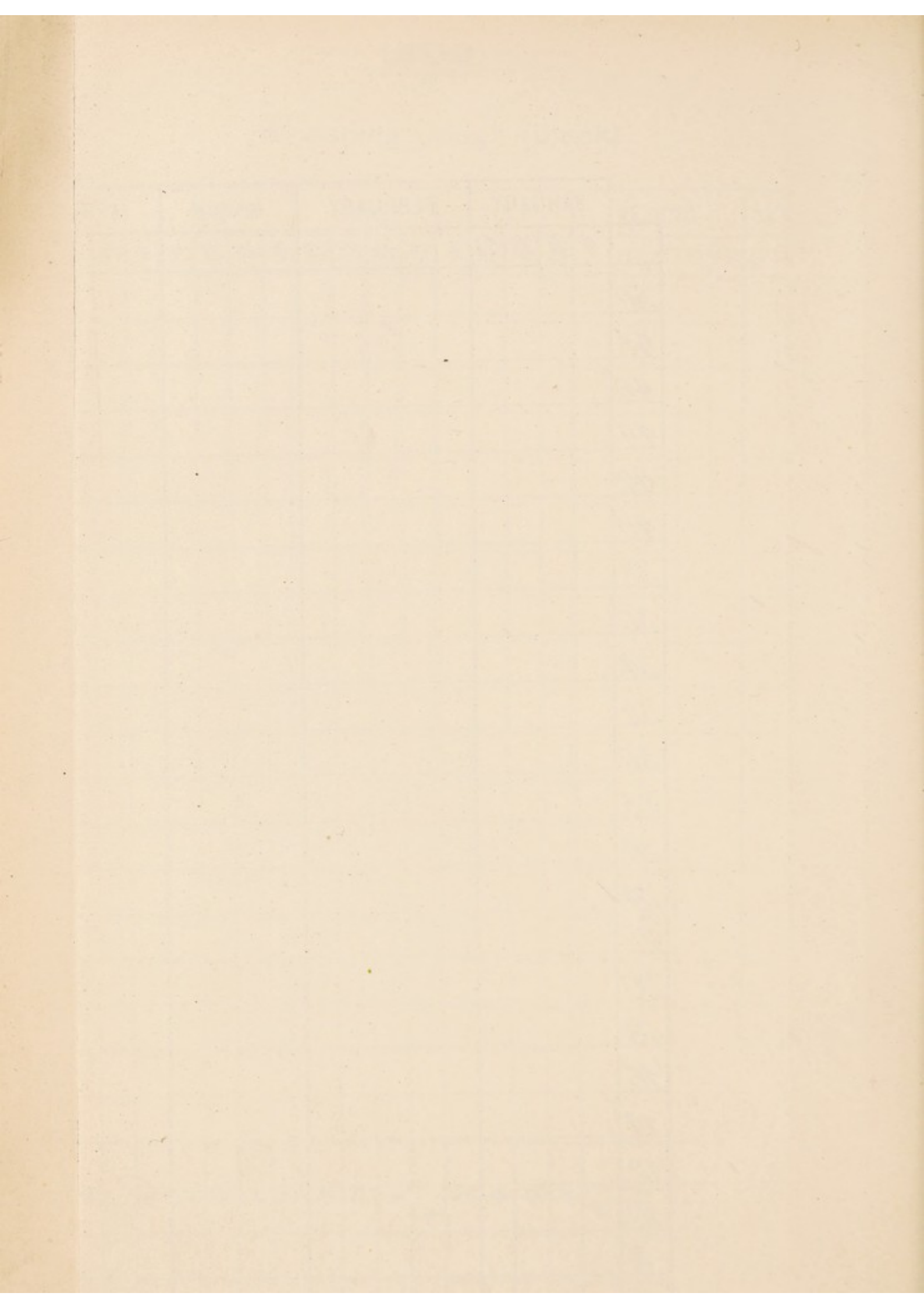
The list of Schools closed will be found in my introduction to this report.

## WHOOPING COUGH.

The number of deaths from Whooping Cough is 24, against 50 in 1907, and 3 in 1906. The number is shown in the following table:—

	Deaths in 1908.	Deaths in 1907.
January .....	1	3
February .....	1	1
March .....	0	1
April .....	2	6
May .....	0	7
June .....	6	7
July .....	2	9
August .....	1	7
September .....	0	2
October .....	1	1
November .....	4	3
December .....	6	3
Total .....	24	50





The deaths were less in 1908 by 26. It is a very dangerous disease owing to the lung affections which supervene, and is highly infectious, but it is difficult to persuade mothers of its seriousness.

## TYPHUS FEVER.

I am pleased to say we have had no notifications of this disease during the year.

## ENTERIC FEVER.

Number of Notifications	...	...	103
Number of Deaths	...	....	26
Mortality per 1,000 of population	....	....	·28
Removed to Sanatorium	...	...	65

We have for 1908, 103 notifications, against 107 in 1907, and 138 in 1906. A few of the cases removed to the Sanatorium turned out to be cases of other febrile diseases.

The number of deaths were 26, or 25·24 per cent. of the cases notified, against a rate of 20·56 per cent. in 1907, and 19·56 per cent. in 1906.

Removed to Sanatorium.	
January .....	4
February .....	3
March .....	4
April .....	3
May .....	2
June .....	2
July .....	5
August .....	6
September .....	4
October .....	16
November .....	6
December .....	10
	—
	<u>65</u>

In the Thompson Yates Laboratory, Liverpool, we have had 4 specimens of blood examined, with the following results:—

Faint Reaction.....	1
Negative ,, .....	3

The mortality rate is also great, and this has been due to the severity of the disease. We have 26 deaths in 103 cases, a rate of 25·24 per cent., which is in excess of the usual percentage in Enteric cases.

I here give the weekly number of Notifications from January 4th to December 26th.

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## WEEKLY NOTIFICATIONS FOR 1908.

January	18th	....	3	August	15th	....	4
"	25th	....	3	"	29th	....	3
February	1st	.....	1	September	5th	....	2
"	15th	....	1	"	12th	....	4
"	22nd	....	3	"	19th	..	3
"	29th	....	1	October	10th	....	3
March	14th	....	1	"	17th	....	4
"	21st	.....	2	"	24th	....	6
"	28th	....	2	"	31st	....	7
April	11th	.....	2	November	7th	....	8
"	25th	.....	3	"	14th	....	2
May	9th	....	2	"	21st	....	1
"	16th	.....	3	"	28th	....	1
June	6th	.....	2	December	5th	....	3
July	11th	.....	1	"	12th	....	4
"	18th	.....	3	"	19th	....	6
August	1st	.....	2	"	26th	....	3
"	8th	.....	1	"	31st	....	3

## ENTERIC FEVER.

1908.	Notification.		Deaths.	
	1908.	1907.	1908.	1907.
January	7	11	2	1
February	5	5	—	2
March	5	8	2	2
April	5	7	2	5
May	5	7	1	1
June	2	7	1	1
July	6	7	2	—
August	9	10	3	4
September	8	14	2	—
October	21	7	3	4
November	12	10	3	1
December	18	14	5	1
Total	103	107	26	22



## INCIDENCE OF ENTERIC FEVER FOR THIRTEEN YEARS.

Year.	Notified Cases.	Deaths from Enteric.	Enteric Fever Rate per 1,000.
1896	101	14	23
1897	63	10	16
1898	92	17	27
1899	174	25	40
1900	104	19	29
1901	71	12	19
1902	76	14	22
1903	51	11	17
1904	56	16	24
1905	133	36	40
1906	138	27	30
1907	107	22	24
1908	103	26	28

The age incidence shows the greatest number of cases have occurred in persons over 30 years, and the next larger in cases from 5—9.

AGE INCIDENCE.  
YEARS.

1—4	5—9	10—14	15—19	20—24	25—29	Over 30
3	20	14	13	7	16	30

Total Cases, 103.

Pemberton district has again in proportion to population given us a greater number of cases ; this, I think, is accounted for by the large number of privy middens, defective drainage, and unpaved or badly paved yards.

Houses in which cases have occurred with :—

Privy Middens.	Pails.	Waste Water Closets.	Water Closets.	Water and Waste Water Closet.	Water and Pail Closet.
33	46	8	13	2	1

Number of privy middens in Wigan	...	...	7
„	„	Pemberton	1735
„	„	ashpits	82
„	„	cesspools	8
„	„	in Wigan	2
„	„	ashpits	43

## STREET LIST OF DEATHS FROM ENTERIC FEVER.

<i>Wigan.</i>		<i>Pemberton.</i>	
Bigham's Yd., Pitt Street.	1	Bentinck Street .....	1
Chadwick Street .....	1	California Street .....	1
Gidlow Lane .....	1	Duke Street .....	1
Gilroy Street .....	1	Noble Street .....	1
Hardybutts .....	1	Northumberland Street ..	1
Herbert Street .....	1	Ormskirk Road .....	1
Higham Street .....	1	Poolstock Lane .....	2
Kendal Street .....	1	Richmond Street .....	1
Marsh's Ct., Bradford St. .	1	Soho Street .....	1
Pool Street .....	1	Victoria Street .....	1
Roscoe Street .....	1	Warrington Road .....	2
Spring Street .....	1		
Swann Street.....	1		
	13		13
Estimated Population for Year ending 1908, 68,126		Estimated Population for Year ending 1908, 24,286	

## ENTERIC FEVER.

Cases in Houses with Insanitary Conditions and Surroundings .....	16
Cases in Houses with other Defects .....	27
Cases in Houses where no Defects were Found ..	60
	103

LIST OF STREETS IN WIGAN WHERE CASES OF ENTERIC FEVER HAVE  
OCCURRED.

	1908	1907		1908	1907
Acton Street .....	1	—	Lyon Street .....	1	1
Arundel Street .....	1	—	Marsh's Ct., Bradford St. . .	1	—
Ashton Street .....	1	—	Mint Street .....	1	—
Baldwin Street .....	2	—	Oxford Street .....	1	—
Barnsley Street .....	1	—	Pool Street .....	1	1
Baron Street .....	1	—	Poolstock .....	1	—
Bigham's Yd., Pitt Street.	1	—	Powell Street.....	1	—
Birkett Bank.....	2	—	Prescott Street .....	1	1
Chadwick Street .....	1	—	Princess Street .....	5	—
Chapel Lane .....	1	3	Roscoe Street .....	1	—
Darlington Street .....	2	—	Rylands Street .....	1	1
Diggle Street .....	1	1	Schofield Lane .....	1	1
Frog Lane .....	1	—	School Street .....	1	—
Gidlow Lane .....	3	4	Scholes .....	1	—
Gilroy Street .....	2	—	Seed Street .....	1	—
Golborne Street .....	1	2	Sovereign Road .....	1	—
Great George Street .....	2	1	Spring Street .....	1	2
Hardybutts .....	2	1	Standishgate .....	1	—
Herbert Street .....	1	—	Tichborne Street .....	1	—
Higham Street .....	2	—	Wigan Lane .....	1	—
Holt Street .....	1	—	Wignall's Yd., Wignall St.	1	—
Horsefield Street .....	1	—	Wilcock Street .....	1	2
Infirmery .....	1	—	Withnall Street .....	1	—
Kirkless Street .....	1	—	Woodhouse Lane .....	3	—
Kendal Street .....	1	—	Woods Street .....	1	—
Lime Street .....	1	—			

LIST OF STREETS IN PEMBERTON WHERE CASES OF ENTERIC FEVER HAVE  
OCCURRED.

	1908	1907		1908	1907
Bentinck Street .....	2	1	New Street .....	1	—
Brackley Street.....	1	—	Northumberland Street ..	2	2
Bridgewater Street .....	1	—	Ormskirk Road .....	4	2
California Street .....	1	—	Poolstock Lane .....	2	4
Duke Street .....	1	—	Regent Street .....	3	—
Enfield Street .....	1	1	Richmond Street .....	1	—
Factory Street .....	1	—	Soho Street .....	2	2
Fairhurst's Yd., Barton St..	1	—	Tunstall Lane .....	1	—
Little Lane .....	1	—	Victoria Street .....	1	1
Marsh Green .....	2	1	Warrington Road .....	5	7
Noble Street .....	1	—	Wilshaw Street .....	2	1

## REPORT ON ENTERIC FEVER CASES, 1908.

1. Notified January 15th, 1908, E. H., female, aged 34 years, 311, Ormskirk Road, Pemberton. Case commenced January 1st, 1908. Removed to Sanatorium January 15th, 1908. 1 adult and 2 children occupy 2 living and 3 sleeping rooms. Patient is engaged in domestic duties. 2 children attend Highfield School. Surroundings, yard part flagged, drains trapped, privy midden. Milk purchased from Waring.

2. Notified January 17th, 1908, K. H. female, aged 7 years, 125, Wigan Lane. Case commenced January 5th, 1908. Isolated at home. 3 adults and 5 children occupy 3 living and 4 sleeping rooms. Patient attends Mariebonne School, also 2 other children. Surroundings, yard part flagged, drains trapped, w.c. inside house. Milk purchased from Woods, Ince.

3. Notified January 18th, 1908, E. T., female, aged 13 years, 18, Princess Street. Case commenced January 4th, 1908, removed to Sanatorium January 4th, 1908. 5 adults and 5 children occupy 2 living and 2 sleeping rooms. Patient attends St. Joseph's School, also 3 other children. Surroundings, yard flagged, drains trapped, pail closet. Milk purchased from O'Donahue.

4. Notified January 20th, 1908, W. H. B., male, aged 6 years, 5, Bentinck Street, Pemberton. Case commenced January 6th, 1908. Removed to Sanatorium January 20th, 1908. 2 adults and 5 children occupy 2 living and 2 sleeping rooms. Patient attends St. Paul's School, also one other child. Probably contracted the disease from 7, Bentinck Street, Pemberton. A case was notified at this address on December 23rd, 1907. Surroundings, yard part flagged, drains trapped, privy midden. Milk purchased from Phythian.

5. Notified January 22nd, 1908, T. S., male, aged 34 years, 107, Schofield Lane. Case commenced December 24th, 1907. Removed to Sanatorium January 22nd, 1908, 6 adults and 3 children occupy 2 living and 2 sleeping rooms. Patient is a collier at Garswood Hall Collieries.

1 child attends St. Patrick's School. Surroundings, yard unpaved, drains choked, pail closet. Milk purchased from Haddock.

6. Notified January 24th, 1908, G. L., male, aged 58 years, 228, Gidlow Lane. Case commenced January 15th, 1908. Isolated at home. 7 adults and 1 child occupy 3 living and 3 sleeping rooms. Patient is the foreman moulder at Wood and Sons' Ironworks. Probable source of infection, cases which occurred at 244, Gidlow Lane; a person who assisted to nurse these cases did the washing at this house. 1 child attends National School. Surroundings, yard concreted, drain choked, water closet inside, waste water closet outside. Milk purchased from Gill.

7. Notified January 28th, 1908, B. P., male, aged 32 years, 4, Bigham's Yard, Pitt Street. Case commenced January 17th, 1908. Removed to Sanatorium January 28th, 1908. 2 adults and 5 children occupy 1 living and 2 sleeping rooms. Patient works at Douglas Bank Colliery, below surface. 3 children attend St. John's School. Surroundings, back to back house, yard open, paved, drain choked. Milk purchased from Winstanley.

8. Notified February 14th, 1908. N. P. A., female, aged 6 years, Standishgate House. Case commenced February 2nd, 1908, isolated at home. 5 adults and 3 children occupy large house (6 sleeping rooms). Patient and another child attend Convent High School. Surroundings, yard paved, drains defective, defective water closet, soilpipe insufficiently ventilated and defective. Milk purchased from Leather.

9. Notified February 19th, 1908, J. B., male, 9, Regent Street, Pemberton. Case commenced February 1st, 1908, removed to Sanatorium February 19th, 1908. 2 adults and 6 children occupy 2 living and 2 sleeping rooms. Patient attends St. Cuthbert's School, also 3 other children. Surroundings, yard paved, drains trapped, privy midden, want of spouting. Milk purchased from Phythian.

10. Notified February 19th, 1908, A. B., female, aged 7 years, 9, Regent Street, Pemberton. Case commenced February 7th, 1908, removed to Sanatorium February 19th, 1908. 2nd case. 1st case No. 9.

11. Notified February 21st, 1908, J. S., male, aged 18 years, 3, Gilroy Street. Case commenced February 4th, 1908, removed to Sanatorium February 21st, 1908. 5 adults and 2 children occupy two living and 3 sleeping rooms. Patient is a carter for Rothwell's, Grocers, Wallgate. 2 children attend St. Patrick's School. Surroundings, yard flagged and paved, drains trapped, waste water closet. Milk purchased from Bailey, Aspull.

12. Notified February 29th, 1908, M. E. F., female, aged 25 years, 54, Victoria Street, Pemberton. Case commenced February 8th, 1908, isolated at home. Died March 2nd, 1908. 5 adults occupy 2 living and 3 sleeping rooms. Patient has not followed any employment for some time. Surroundings, yard tiled, drains trapped, water closet. Milk purchased from Bailey.

13. Notified March 12th, 1908, N. G., female, aged 14 years, 49, Princess Street. Case commenced March 2nd, 1908, removed to Sanatorium March 12th, 1908. 2 adults and 1 child occupy 2 living and 2 sleeping rooms. Patient works in the spinning room at Trencherfield Mill. Surroundings, yard flagged, drains trapped, pail closet, defective floors and window frames. Milk from O'Donahue.

14. Notified March 16th, 1908, J. B., male, aged 10 years, 9, Regent Street, Pemberton. Case commenced March 9th, 1908, removed to Sanatorium March 16th, 1908. 3rd case. 1st and 2nd cases, Nos. 9 and 10.

15. Notified March 19th, 1908, E. G., female, aged 8 years, 25, Kirkless Street. Case commenced March 5th, 1908. Isolated at home. 2 living and 2 sleeping rooms occupied by 4 adults and 4 children. Patient attends St. Catharine's School. Also 2 other children. Surroundings, yard flagged, drains trapped, pail closet. Milk purchased from various persons.

16. Notified March 23rd, 1908, J. B., male, aged 30 years, 3, School Street. Case commenced February 21st, 1908, removed to Sanatorium March 23rd, 1908. 3 adults and 4 children occupy 2 living and 2 sleeping rooms. Patient is a collier at the Moss Hall Collieries, 1 child attends St. Mary's School. Surroundings, yard flagged, drains trapped, pail closet. No milk used.

17. Notified March 28th, 1908, A. D., male, aged 44 years, 6, Withnall Street. Case commenced March 16th, 1908, removed to Sanatorium March 28th, 1908. 5 adults and 4 children occupy 2 living and 3 sleeping rooms. Patient is a collier at Cross Tetley and Co., Bamfurlong Collieries, has suffered from accident in coal mine, some months ago, had been unwell since. 4 children attend St. George's School. Surroundings, yard part flagged, drains trapped, pail closet. Milk purchased from Grimshaw.

18. Notified April 7th, 1908, A. C., female, aged 5 years, 234, Woodhouse Lane. Case commenced March 27, 1908, isolated at home. 5 adults and 2 children occupy 2 living and 3 sleeping rooms. Patient attends St. Andrew's School, also 1 other child. Surroundings, yard part flagged, drains trapped, pail closet. Milk purchased from Mackay.

19. Notified April 9th, 1908, J. K., male, aged 43 years, 85, Marsh Green, Pemberton. Case commenced March 23rd, 1908, removed to Sanatorium April 9th, 1908. 2 adults and 5 children occupy 2 living and 3 sleeping rooms. Patient is a farm labourer on the Pemberton Sewage Farm. 3 children attend St. Cuthbert's School. Surroundings, old farm house, mostly unpaved, small portion bricked, drains trapped, privy midden. Milk purchased from Southworth.

20. Notified April 21st, 1908, M. H., female, aged 16 years, 8, Bentinck Street, Pemberton. Case commenced March 23rd, 1908, isolated at home. 4 adults and 2 children occupy 2 living and 2 sleeping rooms. Patient is a weaver at Brown and Nephews, Poolstock Mill. 2 children attend St. Paul's School. Surroundings, yard paved, drains choked, privy midden. Milk purchased from Phythian.

21. Notified April 21st, 1908, C. R., male, aged 24 years, 4, Herbert Street. Case commenced April 9th, 1908, removed to Sanatorium April 21st, 1908. 3 adults and 1 child occupy 2 living and 2 sleeping rooms. Patient is a stripper in a Cotton Mill at Coppull. Surroundings, yard paved, drains choked, pail closet. Milk purchased from Cunliffe.

22. Notified April 24th, 1908, J. W., male, aged 5 years, 7, Woods Street. Case commenced April 20th, 1908, removed to Sanatorium April 24th, 1908. 5 adults and three children occupy 2 living and 2 sleeping rooms. Patient attends St. Thomas's School, Caroline Street, also 1 other child. Surroundings, street unpaved, yard part flagged, drains trapped, pail closet. Milk purchased from Britnall.

23. Notified May 6th, 1908, E. P., male, aged 34 years, 8, Tichborne Street. Case commenced April 28th, 1908, removed to Sanatorium May 6th, 1908. 2 adults and 2 children occupy 2 living and 2 sleeping rooms. Patient is a collier at Worsley Mesnes Colliery. 1 child attends St. George's School. Surroundings, yard flagged and bricked, drains trapped, pail closet, defective surface of passage on the gable of house. Milk purchased from Neary.

24. Notified May 8th, 1908, T. C., male, aged 21 years, 39, Golborne Street. Case commenced April 24th, 1908, removed to Sanatorium May 8th, 1908. 3 adults and 4 children occupy 2 living and 3 sleeping rooms. Patient is a collier at Pearson and Knowles' Colliery. 3 children attend St. Patrick's School. Surroundings, yard flagged, drains trapped, pail closet, defective window frame, defective roof, defective surface of passage at rear. Milk purchased from Bailey.

25. Notified May 11th, 1908, J. B., male, aged 24 years, 120, Ormskirk Road, Pemberton. Case commenced May 2nd, 1908, too ill for removal. 2 adults occupy 2 living and 2 sleeping rooms. Patient is a collier at Blundell's Colliery. Surroundings, yard part flagged, drains trapped, privy midden, defective midden roof. Milk purchased from Leech and Waring.



26. Notified May 11th, 1908, P. K., male, aged 49 years, 80, Soho Street, Pemberton. Case commenced April 21st, 1908, removed to Sanatorium May 11th, 1908. 5 adults occupy 2 living and 3 sleeping rooms. Patient is a Corporation Nightsoil employee, generally engaged loading ash-carts. Surroundings, yard paved, drains trapped, privy midden, defective roof. Milk purchased from Jones.

27. Notified May 12th, 1908, J. B., male, aged 14 years, 4, Oxford Street. Case commenced May 9th, 1908, removed to Sanatorium May 12th, 1908. 8 adults and 5 children occupy 2 living and 3 sleeping rooms. Patient works at Douglas Bank Colliery. 1 child attends St. Mary's School. Surroundings, yard paved, drains trapped, pail closet. Milk purchased from Thomas.

28. Notified June 4th, 1908, M. E., female, aged 20 years, 10, Higham Street. Case commenced May 25th, 1908, removed to Sanatorium June 4th, 1908. 4 adults and 2 children occupy 2 living and 2 sleeping rooms. Patient works at Eckersley's No. 1. Mill in blowing room. 1 child attends St. Patrick's School. Surroundings, yard flagged, drains trapped, pail closet; milk seldom used.

29. Notified June 6th, 1908, J. T., male, aged 20 years, 21, Rylands Street. Case commenced May 29th, 1908, removed to Sanatorium June 6th, 1908. 4 adults occupy 2 living and 2 sleeping rooms. Patient is a moulder at Tickle's Foundry. Surroundings, yard flagged, drains trapped, waste water closet. Milk purchased from Sharples.

30. Notified July 4th, 1908, E. M., female, aged 31 years, 1, Acton Street. Case commenced June 29th, 1908, removed to Sanatorium July 4th, 1908. 4 adults and 1 child occupy 2 living and 2 sleeping rooms. Patient is engaged as a teacher at St. Mary's School. Surroundings, yard flagged, drains trapped, water closet (inside). Milk purchased from Winnard,

31. Notified July 15th, 1908, T. S., male, aged 4 years, 38, Bridgewater Street, Pemberton. Case commenced July 1st, 1908, removed to Sanatorium, July 15th, 1908. 2 adults and 3 children occupy 2 living and 2 sleeping rooms. 1 child attends St. Cuthbert's School. Surroundings, yard flagged, drains trapped, privy. Milk purchased from Castelli.

32. Notified July 15th, 1908, J. C., male, aged 26 years, 31, Pool Street. Case commenced June 30th, 1908. Removed to Sanatorium July 15th, 1908. 6 adults and one child occupy 2 living and 2 sleeping. Patient is a collier at Worsley Mesnes Colliery. Surroundings, yard flagged, drains trapped, pail closet. Milk purchased from Jones.

33. Notified July 18th, 1908, F. P., female, aged 42 years, 57, Ormskirk Road, Pemberton. Case commenced July 6th, 1908, removed to Sanatorium July 18th, 1908. 3 adults occupy (shop) 1 living room and 2 bedrooms. Patient is engaged in domestic duties at this Chip Potato shop. Surroundings, yard part flagged, drains trapped, privy midden. Milk purchased from Leach.

34. Notified July 29th, 1908, K. P., female, aged 13 years, 8, Princess Street. Case commenced July 15th, 1908, removed to Sanatorium July 29th, 1908. 2 adults and 2 children occupy 1 living and 2 sleeping rooms. Patient attends St. Joseph's School, also one other child. Surroundings, yard small, portion flagged, drains trapped, pail closet adjoining house. Milk purchased from O'Donahue.

35. Notified July 30th, 1908, R. H., male, aged 43 years, 4, Marsh's Court, Bradford Street. Case commenced July 16th, 1908, to ill for removal (Died). 5 adults occupy 2 living and 2 sleeping rooms. Patient works at May Mill, Pemberton. Surroundings, yard flagged, drains trapped, pail closet. Milk purchased from Hurst.

36. Notified August 6th, 1908, J. F., male, 27 years, 568, Warrington Road, Pemberton. Case commenced

July 11th, 1903, isolated at home. 2 adults and 2 children occupy 2 living and 2 sleeping rooms. Patient is an overlooker at Brown's Worsley Mesnes Mill (Weaving Shed). Surroundings, yard part flagged, drains trapped, privy midden. Milk purchased from Phythian.

37. Notified August 10th, 1908, R. F., female, aged 35 years, 9, Duke Street, Pemberton. Case commenced July 23rd, 1908, removed to Sanatorium August 10th, 1908. 2 adults occupy 2 living and 2 sleeping rooms. Patient engaged in domestic duties. Husband, collier. Surroundings, yard flagged, drains trapped, privy midden. Milk purchased from Phythian.

38. Notified August 10th, 1908, M. E. A. R., female, aged 13 years, 7, Chadwick Street. Case commenced July 29th, 1908, removed to Sanatorium August 10th, 1908. 2 adults and 3 children occupy 3 living and 3 sleeping rooms. Patient assisted in the domestic duties at home. 1 child attends St. James's School. Surroundings, yard flagged, drains trapped, water closet. Milk purchased from Britnall.

39. Notified August 12th, 1908, A. W., male, aged 29 years, 4, Seed Street. Case commenced July 31st, 1908. Removed to Sanatorium August 12th, 1908. 2 adults and 3 children occupy 2 living and 2 sleeping rooms. Patient is a collier at Douglas Bank Colliery. 1 child attends St. Catherine's School. Surroundings, yard (being paved), drains trapped, pail closet. Milk purchased from Barton.

40. Notified August 12th, A. S., male, aged 27 years, 85, Chapel Lane. Case commenced August 1st, 1908. Removed to Sanatorium August 13th, 1908. 4 adults and 2 children occupy 2 living and 2 sleeping rooms. Patient is a grocer at Co-operative Society's Wallgate shop. 1 child attends St. Joseph's School. Surroundings, yard flagged, drains trapped, pail closet. Milk purchased from O'Donahue.

41. Notified August 28th, 1908. J. B., male, aged 5 years, 25, Ashton Street. Case commenced August 21st, 1908, removed to Sanatorium August 29th, 1908. 4

adults and 1 child occupy 2 living and 2 sleeping rooms. Patient attends St. Patrick's School. Surroundings, yard flagged, drains choked, pail closet. Milk used, condensed.

42. Notified August 28th, 1908, A. B., female, aged 18 years, 12, Baldwin Street. Case commenced August 18th, 1908. Removed to Sanatorium August 28th, 1908. 6 adults occupy 2 living and 3 sleeping rooms. Patient works in Reeling Room at No. 2 Western Mill, Eckersley's Limited. Surroundings, yard paved, drains trapped, waste-water closet. Milk purchased from Grimshaw.

43. Notified August 28th, 1908, T. O., male, aged 35 years, 12, Baron Street. Case commenced August 21st, 1908. Removed to Sanatorium August 28th, 1908. 2 adults and 3 children occupy 2 living and 2 sleeping rooms. Patient is a collier at Alexandra Colliery, Whelley, 3 children attend St. George's School. Surroundings, yard tiled, drains trapped, pail closet. Milk purchased from various persons (not often used).

44. Notified August 31st, 1908, T. T., male, aged 12 years, 572, Warrington Road, Pemberton. Case commenced August 21st, 1908. Removed to Sanatorium August 31st, 1908, 2 adults and 5 children occupy 2 living and 2 sleeping rooms. Patient attends St. Paul's School, also 2 other children. Surroundings, yard flagged (defective), drains trapped, privy. Milk purchased from Ball's.

45. Notified September 3rd, 1908, W. C., female, aged 27 years, 26, Little Lane, Pemberton. Case commenced August 26th, 1908. Removed to Sanatorium September 3rd, 1908. 5 adults and 3 children occupy 1 living and 2 sleeping rooms. Patient engaged in domestic duties at home (no school). Surroundings, yard unpaved, drains trapped, pail closet. Milk purchased from Alker.

46. Notified September 8th, 1908, S. L., male, aged 11 years, 108, Warrington Road, Pemberton. Case commenced August 26th, 1908. Removed to Sanatorium September 8th, 1908. 5 adults and 2 children occupy 2 living and 3 sleeping rooms. Patient attends St. Mark's

School. Surroundings, yard flagged, defective round gully, drains trapped, privy midden. Milk purchased from Bailey.

47. Notified September 8th, 1908, W. A., male, aged 11 years. 349, Warrington Road, Pemberton. Case commenced August 26th, 1908. Isolated at home. 2 adults and 6 children occupy 2 living and 2 sleeping rooms (4 children sent from home). Patient attends St. Paul's School, also 4 other children. Surroundings, yard flagged, drains trapped, privy. Milk purchased from Phythian's.

48. Notified September 9th, 1908, N. G., female, aged 18 years, 156, Darlington Street East. Case commenced September 2nd, 1908, isolated at home. 6 adults occupy 3 living and 4 sleeping rooms. Patient engaged in domestic duties at home. Surroundings, yard flagged, drains trapped, W.C. inside, pail closet outside, defective surface of passage at rear. Milk used, condensed.

49. Notified September 10th, 1908, M. B., female, aged 15 years, 12, Baldwin Street. Case commenced September 4th, 1908, removed to Sanatorium September 10, 1908. 2nd case, 1st case No. 42. Patient works in Winding room at Eckersley's Greenough Street Mill.

50. Notified September 14, 1908, E. A., female, aged 49 years, 49, Holt Street. Case commenced September 3rd, 1908, isolated at home. 4 adults and 1 child occupy 2 living and 3 sleeping rooms. Patient engaged in domestic duties at home. 1 child attends St. Andrew's School. Surroundings, yard flagged, drains trapped, water closet. Milk purchased from McKay's.

51. Notified September 16th, 1908, R. F., male, aged 7 years, 82, Prescott Street. Case commenced September 12th, 1908, removed to Sanatorium September 16th, 1908. 2 adults and 5 children occupy 2 living and 2 sleeping rooms. Patient attends National School, also 2 other children. Surroundings, yard flagged, defective round gully, drains trapped, pail closet, defective downspout. Milk purchased from Letman's.

52. Notified September 21st, 1908, J. L. S., male, aged 10 years, 22, Sovereign Road. Case commenced September 13th, 1908, isolated at home. 2 adults and 2 children occupy 2 living and 2 sleeping rooms. Patient attends Presbyterian School, also 1 other child. Surroundings, yard flagged, defective drains, trapped, waste-water closet. Milk purchased from Wilson.

53. Notified October 5th, 1908, H.G., female, aged 15 years, 13, Princess Street. Case commenced September 26th, 1908, removed to Sanatorium October 5th, 1908. 2 adults and 5 children occupy 1 living and 2 sleeping rooms. Patient is employed in Winding room at Eckersley's Mill (Old Mill). 3 children attend St. Thomas's School, Caroline Street. Surroundings, insanitary property, no back door, defective roof and spouts, no slopstone, yard unpaved, drain choked, pail closet. Milk purchased from O'Donahue.

54. Notified October 5th, 1908, T. G., male, aged 6 years, 13, Princess Street. Case commenced September 26th, 1908, removed to Sanatorium October 5th, 1908. 2nd case, 1st case No. 53. Patient attends St. Thomas's, Caroline Street.

55. Notified October 9th, 1908, J. S., male, aged 2½ years, 7, Northumberland Street, Pemberton. Case commenced September 25th, 1908, removed to Sanatorium October 9th, 1908. 2 adults and 2 children occupy 2 living and two sleeping rooms. Patient is a collier at Blundell's Colliery. Surroundings, yard paved, drains trapped, privy midden. Milk purchased from Finney.

56. Notified October 12th, 1908, H. H., male, aged 15 years, 42, Birkett Bank. Case commenced October 4th, 1908, removed to Sanatorium October 12th, 1908. 4 adults occupy 2 living and 3 sleeping rooms. Patient is a clerk at Messrs. Fenton and Hilton, King Street. Surroundings, yard flagged, drains trapped, pail closet. Milk purchased from Haddock's.

57. Notified October 12th, 1908, M. K., female, aged 27 years, 57, Brackley Street, Pemberton. Case commenced October 6th, 1908, removed to Sanatorium

October 12th, 1908. 2 adults occupy 2 living and 2 sleeping rooms. Patient engaged in domestic duties. Surroundings, yard flagged, drains trapped, privy midden. Milk purchased from Smith's.

58. Notified October 12th, 1908, D. H., male, aged 27 years, 10, Diggle Street. Case commenced October 1st, 1908, removed to Sanatorium October 12th, 1908. 6 adults and 1 child occupy 2 living and 2 sleeping rooms. Patient is a puddler at the Wigan Rolling Mills. Surroundings, yard part flagged, drains trapped, waste-water closet.

59. Notified October 13th, 1908, B. H., male, aged 5 years, 312, Woodhouse Lane. Case commenced October 7th, 1908, isolated at home. 2 adults and 4 children occupy 2 living and 3 sleeping rooms. Patient attends St. Andrew's School, also 2 other children. Surroundings, yard flagged, drains trapped, pail closet. Milk purchased from Gill's.

60. Notified October 19th, 1908, A. P., female, aged 6 years, 38, Frog Lane. Case commenced October 9th, 1908, removed to Sanatorium October 19th, 1908. 3 adults and 4 children occupy 2 living and 2 sleeping rooms. Patient attends St. John's School, also 3 other children. Surroundings, yard flagged, drains trapped, pail closet. Milk purchased from Barton.

61. Notified October 20th, 1908, A. M., female, aged 43 years, Birkett Bank Hotel. Case commenced October 10th, 1908, removed to Sanatorium October 20th, 1908. 4 adults and three children occupy very large house, 6 bedrooms. Patient attended to domestic duties and assisted in the hotel, 3 children attend the following schools. 1 St. Patrick's, 1 Convent, 1 Hindley Grammar. Surroundings, yard paved and flagged, drains trapped, water closet, defective ventilating shaft. Milk purchased from Haddock's.

62. Notified October 22nd, 1908, H. G. B., male, aged 33 years, 106, Darlington Street East. Case commenced October 14th, 1908, removed to Sanatorium October

22nd, 1908. 5 adults and 1 child occupy 2 living and 3 sleeping rooms. Patient is a waggon builder at Cross, Tetley, and Co.'s Collieries, Bamfurlong. 1 child attends Warrington Lane Council School. Surroundings, yard flagged, drains trapped, pail closet (defective). Milk purchased from Barton.

63. Notified October 22nd, 1908, R. W., male, aged 29 years, 1, Wignall's Yard, Wignall Street. Case commenced October 14th, 1908, removed to Sanatorium October 22nd, 1908. 2 adults and 2 children occupy 1 living and 2 sleeping rooms. Patient is a collier at Pearson and Knowles, Low Green Colliery. Surroundings, yard flagged, drains trapped, pail closet. Milk purchased from Callow Park Dairy.

64. Notified October 22nd, 1908, E. A., female, aged 32 years, 103, Enfield Street, Pemberton. Case commenced September 7th 1908, isolated at home. 3 adults 2 children occupy 2 living and 2 sleeping rooms. Patient engaged in domestic duties. 1 child attends Highfield School. Surroundings, yard part flagged, drains trapped, privy (shallow). Milk purchased from Alker.

65. Notified October 24th, 1908, A. D., female, aged 22 years, 414, Warrington Road, Pemberton. Case commenced October 10th, 1908, removed to Sanatorium October 24th, 1908. 5 adults occupy 2 living and 3 sleeping rooms. Patient is a teacher at St. Oswald's School, Ashton-in-Makerfield. Probably contracted disease at school. Surroundings, yard part flagged, drains trapped, privy miaden. Milk purchased from Phythian's.

66. Notified October 26th, 1908, E. R., male, aged 45 years, 152, Great George Street. Case commenced October 14th, 1908, removed to Sanatorium October 26th, 1908. 4 adults occupy 2 living and 2 sleeping rooms. Patient is a platelayer on surface at Douglas Bank Colliery. Surroundings, yard part flagged, drains trapped, pail closet. Milk purchased from Jones.



67. Notified October 26th, 1908. J. F. A., male, aged 38 years, 132, Gidlow Lane. Case commenced October 10th, 1908, removed to Sanatorium October 26th, 1908. 2 adults and 2 children occupy shop, 1 living room and 3 bedrooms. Patient is a foreman joiner for the L. and Y. Railway Co., and often has to examine gullies and drains, also to repair the property of the Company. He may have contracted the disease from this source. Surroundings, yard flagged, drains trapped, water closet. Milk purchased from Dunn's.

68. Notified October 27th, 1908, J. D., female, aged 37 years, 39, Poolstock Lane, Pemberton. Case commenced October 18th, 1908. Too ill for removal. 4 adults and 4 children occupy 2 living and sleeping rooms. Patient is engaged in domestic duties. 2 children attend Worsley Mesnes School. Surroundings, yard part flagged (defective), drains trapped, privy, sewers wrong. Milk purchased from Hodkinson.

69. Notified October 28th, 1908, W. L., male, aged 51 years, 100, Poolstock Lane, Pemberton. Case commenced October 18th, 1908, removed to Sanatorium October 28th, 1908. 2 adults and 6 children occupy 2 living and 2 sleeping rooms. Patient is a collier at Garswood Hall Collieries, No. 6. Pit. 3 Children attend Worsley Mesnes School. Surroundings, yard flagged, drains trapped, but back up during heavy rain owing to faulty sewers, which are at present being repaired and relayed, privy. Milk seldom used.

70. Notified October 29th, 1908, J. L., male, aged 19 years, 13, California Street, Pemberton. Case commenced October 23rd, 1908, removed to Sanatorium October 28th, 1908. 4 adults and 2 children occupy 2 living and 2 sleeping rooms. Patient is a collier at Worsley Mesnes Colliery. 1 child attends Worsley Mesnes School. Surroundings, yard flagged, drains trapped, but back up as in previous case, privy. Milk purchased from Hodkinson.

71. Notified October 30th, 1908, U. H., female, aged 6 years, 231, Barnsley Street. Case commenced October 16th, 1908, too ill for removal. 2 adults and 2

children occupy 2 living and 3 sleeping rooms. Patient attends St. Michael's School. Surroundings, yard flagged, drains trapped, pail closet. Milk used, condensed.

72. Notified October 31st, 1908, M. O. H., female, aged 9 years, 6, Roscoe Street. Case commenced October 24th, 1908, removed to Sanatorium October 31st, 1908. 4 adults and 5 children occupy 2 living and 3 sleeping rooms. Patient attends St. Patrick's School. Surroundings, no proper street formed, yard flagged, drains trapped, water closet. Milk purchased from Thomas, also use condensed.

73. Notified October 31st, 1908, E. M., male, aged 18 years, 94, Woodhouse Lane. Case commenced October 24th, 1908, removed to Sanatorium October 31st, 1908. 7 adults and 4 children occupy 2 living and 3 sleeping rooms. Patient works at Douglas Bank Colliery. 2 children attend St Andrew's School. Surroundings, yard tiled, drains trapped, pail closet. Milk purchased from Schofield.

74. Notified November 2nd, 1908, H. G., male, aged 6 years, New St. Pemberton (Bakery). Case commenced October 27th, 1908, Isolated at home. 2 adults and 4 children occupy 3 living and 4 sleeping rooms. Patient and 2 other children attend Wesleyan School, Orrell. Surroundings, yard flagged, drains untrapped at rear, water closet, foul pan. Milk purchased from Wadsworth's and Barton's.

75. Notified November 3rd, 1908, C. W., male, aged 28 years, 1, Marsh Green, Pemberton. Case commenced October 20th, 1908, removed to Sanatorium November 3rd, 1908. 2 adults and 6 children occupy 3 living and 3 sleeping rooms. Patient is a contractor at Higginbottom's Norley Colliery and works below surface. He complained of stench from water which lodges on land adjoining his house, into which he states that sewage flows. 3 children attend Marsh Green School. Surroundings, large yard unpaved, drains trapped, privy midden. Milk purchased from Barton.

76. Notified November 4th, 1908, E. B., male, aged 35 years, 17, Arundel Street. Case commenced October 28th, 1908, removed to Sanatorium November 5th, 1908. 3 adults and 1 child occupy 2 living and 2 sleeping rooms. Patient is a weaver at Rylands' Mill. 1 child attends St. John's School. Surroundings, yard flagged, drains trapped, pail closet. Milk purchased from Thomas.

77. Notified November 6th, 1908, A. C., male, aged 44 years, 8, Spring Street. Case commenced October 27th, 1908, removed to Sanatorium November 6th, 1908. 4 adults and 1 child occupy 2 living and 2 sleeping rooms. Patient is a collier at Pearson and Knowles' New Arley Mine. Surroundings, yard paved, drains trapped, pail closet, slopstone pipe requires lengthening. Milk purchased from Grimshaw and Bedford.

78. Notified November 6th, 1908, J. B., male, aged 31 years, 12, Factory Street, Pemberton. Case commenced October 16th, 1908. Isolated at home, too ill for removal. 2 adults and 1 child occupy 1 living and 1 sleeping room. Patient is deaf and dumb. He works at a clogger's in Enfield Street. Surroundings, yard unpaved, drains trapped, privy. Insanitary property. No milk used.

79. Notified November 7th, 1908, M. W., female, aged 7 years, 32, Northumberland Street, Pemberton. Case commenced October 27th, 1908. Isolated at home. 2 adults and 4 children occupy 1 living and 1 sleeping room. Patient attends St. Paul's School. Surroundings, yard unpaved, drains trapped, privy midden. Milk purchased from Ball's and Phythian's.

80. Notified November 7th, 1908, J. F., male, aged 31 years, 4, Wilcock Street. Case commenced October 30th, 1908. Removed to Sanatorium November 7th, 1908. 4 adults occupy 2 living and 2 sleeping rooms. Patient is a collier at Douglas Bank Colliery. Case 73 also works at this colliery. Surroundings, yard flagged, drains trapped, pail closet. Milk purchased from various persons.

81. Notified November 11th, 1908, M. W., female, aged 26 years, 76, Tunstall Lane, Pemberton. Case commenced November 3rd, 1908, removed to Sanatorium November 11th, 1908. 2 adults and 3 children occupy 2 living and 2 sleeping rooms. Patient is engaged in domestic duties. Surroundings, yard part flagged, drains trapped, privy. Milk purchased from Smith's.

82. Notified November 12th, 1908, P. E. B., male, aged 3½ years, 154, Ormskirk Road, Pemberton. Case commenced November 5th, 1908. Isolated at home. 2 adults and 3 children occupy 2 living and 2 sleeping rooms. 2 children attend St. Mark's School. Surroundings, yard part flagged, drains trapped, privy. Milk purchased from Co-operative Society.

83. Notified November 21st, 1908, G.W.E., male, aged 33 years, 5, Horsefield Street. Case commenced November 12th, 1908, removed to Sanatorium November 21st, 1908. 2 adults and 1 child occupy 2 living and 2 sleeping rooms. Patient is a puddler at Wigan Rolling Mills, case 58 also works for this firm. Surroundings, yard flagged and paved, drains trapped, pail closet. Milk purchased from Purver's.

84. Notified November 23rd, 1908, J.B., male, aged 60 years, 2, Gilroy Street. Case commenced November 16th, 1908, isolated at home. 7 adults and 2 children occupy 2 living and 2 sleeping rooms. Patient has not followed any employment for 13 weeks, he works at the Maypole Colliery, where explosion occurred. 1 child attends St. Catharine's School. Surroundings, yard flagged and paved, drains choked, waste-water closet choked. Milk purchased from Harvey's.

85. Notified November 30th, 1908, P. F., male, aged 26 years, 33, Richmond Street, Pemberton. Case commenced November 20th, 1908, isolated at home. 2 adults occupy 2 living and 2 sleeping rooms. Patient is a collier at Park Lane Collieries. Patient's wife is a weaver at Brown and Nephew's Weaving Shed. Surroundings, yard bricked, drains trapped, privy midden. Milk purchased from Gore's.

86. Notified December 2nd, 1908, F. R., female, aged 25 years, 20, Soho Street, Pemberton. Case commenced November 22nd, 1908, removed to Sanatorium December 2nd, 1908. 2 adults and 3 children occupy 2 living and 2 sleeping rooms. Patient is engaged in domestic duties.

87. Notified December 3rd, 1908, A. H., male, aged 43 years, 15, Kendal Street. Case commenced November 21st, 1908, removed to Sanatorium December 3rd, 1908. 2 adults and 2 children occupy 2 living and 3 sleeping rooms. Patient is a butcher for W. Sawbridge, Market Street. 2 children attend National School. Surroundings, yard flagged, drains trapped, pail closet. Milk purchased from Haddock and Walker's.

88. Notified December 7th, 1908, P. C., male, aged 28 years, 2, Noble Street, Pemberton. Case commenced November 20th 1908, too ill for removal (died). 4 adults and 3 children occupy 2 living and 2 sleeping rooms. Patient is a labourer for Corporation Streets Department. 1 child attends St. Cuthbert's School. Surroundings, yard unpaved, drains trapped, water closet. Milk purchased from Waring's.

89. Notified December 7th, 1908, H. L., male, aged 14 years, 15, Powell Street. Case commenced November 23rd, 1908, isolated at home, 2 adults and 3 children occupy 2 living and 3 sleeping rooms. Patient attends Grammar School, 2 other children attend Convent High School. Surroundings, yard flagged, drains trapped, pail closet. Milk purchased from Poiser's and Jameson's.

90. Notified December 7th, 1908, A. D., male, aged 18 years, 30, Poolstock. Case commenced December 3rd, 1908, isolated at home. 9 adults occupy 2 living and 3 sleeping rooms. Patient is an assistant master at St. Joseph's School. Surroundings, yard flagged, drains trapped, pail closet. Milk purchased from O'Donohue's.

91. Notified December 10th, 1908, E. S., female, aged 6 years, 58, Lime Street. Case commenced December 2nd, 1908, removed to Sanatorium December 10th, 1908. 4 adults and 2 children occupy 2 living and 2 sleeping

rooms. Patient attends St. Mary's School. Surroundings, yard flagged, drains choked, pail closet. Milk condensed.

92. Notified December 14th, 1908, M. F., male, aged 26 years, 33, Higham Street. Case commenced December 3rd, 1908, removed to Sanatorium December 14th, 1908. 4 adults occupy 2 living and 2 sleeping room. Patient is a collier at Worsley Mesnes Colliery. Surroundings, yard flagged, drains trapped, pail closet. Milk purchased from Murphy's.

93. Notified December 17, 1908, C. J., Female, aged 16 years, 190, Gidlow Lane. Case commenced December 7th, 1908, isolated at home. 7 adults and 2 children occupy 3 living and 3 sleeping rooms. Patient is a tailoress at Messrs. Rawson and Coop, Miry Lane. 1 child attends St. Andrew's School. These people removed from 80, Springfield Road, after patient sickened on account of stench arising from accumulation of stagnant water which was lying under the room floors (repairs now in hand). Surroundings at Gildow Lane, yard flagged, drains trapped, water closet. Milk purchased from the Co-operative Society and Hodge's.

94. Notified December 17th, 1908, M. McG., male, aged 13 years, 42a, Hardybutts. Case commenced December 6th, 1908, too ill for removal. 3 adults and 2 children occupy 2 living and 3 sleeping rooms. Patient is a labourer at Rose Bridge Colliery. 2 children attend St. Patrick's School. Surroundings, yard flagged, drains trapped, pail closet. Milk purchased from Hickey's.

95. Notified December 17th, 1908, R. G., female, aged 8 years, 19, Wilshaw Street, Pemberton. Case commenced November 26th, 1908, removed to Sanatorium December 17th, 1908. 2 adults and 5 children occupy 2 living and 2 sleeping room. Patient attends St. Mark's School, also 2 other children. Surroundings, yard flagged and tiled, drains trapped, privy. Milk purchased from Waring.

96. Notified December 19th, 1908, J. H., male, aged 12 years, 44, Lyon Street. Case commenced December

9th, 1908, removed to Sanatorium December 19th, 1908. 2 adults and 6 children occupy 2 living and 2 sleeping rooms. Patient attends National School, 2 other children St. Thomas's School, Clayton Street. Surroundings, yard flagged, drains trapped, pail closet. Milk purchased from Culshaw's.

97. Notified December 19th, 1908, G. W. W., male, aged 26 years, 51, Scholes. Case commenced November 29th, 1908, isolated at home. 3 adults and 2 children occupy shop, 2 living rooms and 4 bedrooms. Patient is a carter. Surroundings, yard flagged, drains trapped, water closet inside house, waste-water closet outside. Milk purchased from Leather's and Sutton's.

98. Notified December 21st, 1908, J. G., male, aged 32 years, 19, Wilshaw Street, Pemberton. Case commenced December 12th, 1908, removed to Sanatorium December 21st, 1908. 2nd case, 1st case No. 95. Patient works at Douglas Bank Colliery. Collier.

99. Notified December 29th, 1908, A. C., male, aged 16 years, 1, Mint Street, Scholes. Case commenced December 19th, 1908, too ill for removal. 4 adults occupy 1 living and 2 sleeping rooms. Patient was a labourer for bricksetter, sometimes repairs and clears drains. Surroundings, yard flagged, drains trapped, water closet. Milk purchased from Halsall's.

100. Notified December 29th, 1908, R. S., male, aged 10 years, R. A. E. Infirmary (from 37, Lime Street). Case commenced December 12th, removed to Sanatorium December 26th, 1908. 2 adults and 6 children occupy 1 living and 2 sleeping rooms. 3 children attend St. Patrick's School (patient). Surroundings, yard unpaved, drains trapped, pail closet. Milk purchased from various persons.

101. Notified December 29th, 1908, C. E. E., male, aged 6 years, 22, Great George Street. Case commenced December 20th, 1908, removed to Sanatorium December 30th, 1908. 2 adults and 2 children occupy 2 living and 2 sleeping rooms. Patient attends St. Thomas's School.

Surroundings, yard flagged, drains trapped, pail closet, no back door. Milk purchased from Letman.

102. Notified December 30th, 1908, W.B., male, aged 5 years, 20, Hardybutts. Case commenced December 13th, 1908, removed to Sanatorium December 30th, 1908. 5 adults and 4 children occupy 3 living and 3 sleeping rooms. Patient attends New Jerusalem School. Surroundings, yard part flagged, drains trapped, pail closet. Milk purchased from Bedford and Hickey.

103. Notified December 31st, 1908, E. B., female, aged 3 years, 1, Fairhurst's yard, Pemberton. Case commenced December 25th, 1908, Isolated at home. 2 adults and 2 children occupy 1 living and 1 sleeping room. Surroundings, yard paved, drains trapped, privy midden, no back door. Milk purchased from Barton and White's.



## ENTERIC FEVER CASES, 1908.

Case 3 was probably source of cases 13, 34, 35, 40, 53, and 54, all occurring in the Princess Street District.

Cases 4, 9, 10, 14, 20, 36, 37, 44, 45, 47, 55, 57, 65, and 79, all occurred in the Goose Green District, where Enteric Fever is usually prevalent, and may have continued from outbreak which occurred during the latter part of 1907.

Cases 7, 27, 39, 66, 73, and 80, were all employees at Douglas Bank Colliery.

Case 12 was probably source of cases 25, 26, 31, 33, 46, 82, 86, 95, and 98, all of which occurred in the Newtown District.

Case 16 was probable source of case 17.

Case 19 was a labourer on the Pemberton Sewage Farm.

Cases 23, 32, and 92, all employees at Worsley Mesnes Colliery.

Cases 24, 63, and 77, all employees at Pearson and Knowles' Colliery.

Case 42 was source of case 49.

Cases 48, 56, 61, 62, and 72, all in the Darlington Street East District, and may have arisen from same source.

Case 58 was probable source of case 83.

Case 67 probably contracted the disease out of the district.

Cases 68, 69, 70, and 85, all occurred in the Worsley Mesnes District, and no doubt arose from one source.

Case 70 was source of case 92.

Case 75 was probable source of case 88.

The following is a list of houses where two or more cases of Enteric Fever have occurred :—

	Cases
9, Regent Street, Pemberton ... ..	3
12, Baldwin Street ... ..	2
13, Princess Street ... ..	2
19, Wilshaw Street, Pemberton ... ..	2

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## DIARRHŒA.

Number of Deaths . . . .	87	In 1907 . . . . .	60
Mortality of Population.	.94	„ . . . . .	.66

We had a rate of .66 in 1907, but we have this year a rate of .94.

## AGE INCIDENCE, 1908.

Month.	Deaths.	0-1 Year.	1-5 Years.	Over 5 Yrs.
January . . . . .	1	1	—	—
February . . . . .	—	—	—	—
March . . . . .	—	—	—	—
April . . . . .	—	—	—	—
May . . . . .	1	1	—	—
June . . . . .	1	—	—	1
July . . . . .	10	7	2	1
August . . . . .	43	37	6	—
September . . . . .	16	12	4	—
October . . . . .	10	5	5	—
November . . . . .	5	3	2	—
December . . . . .	—	—	—	—
Total . . . . .	87	66	19	2

It will be seen that August and September give us the greatest number of deaths, and, as in previous years, these are chiefly in children under the age of one year.

PARTICULARS RE DIARRHŒA DEATHS, 1908.

Sex.	Age.	Address.	How Fed.	Milk.	Previous Deaths from Diarrhœa	W.C. Accom	Yard.	Remarks.
F.	4 months	6, Von Blucher Square, Whelley	Bottle	Cow's	—	Waste Water Pail.	Flagged	
F.	3 months	74, Park Street	Bottle	Cow's	—	W.C. Pail.	Flagged	
M.	54 years	51, Hardybutts	Ordinary	—	—	W.C. Pail.	Paved	
F.	11 months	18, Lyon Street	Bottle	Cow's	—	Privy	Flagged	
M.	31 years	45, Bridgewater St. (P.)	Ordinary	—	—	Privy	Bricked	
M.	10 months	38, McCormick Street	Bottle	Condensed & Patent foods	—	Pail.	Flagged	Choked stopstone pipe.
F.	10 months	35, Prescott Street	Bottle	Condensed	—	Pail.	Part flagged	
M.	3 months	4, Herbert Street	Bottle	Condensed	—	Pail.	Paved	
M.	3 months	13, Atherton Street (P.)	Breast	—	—	Privy	Part flagged	
F.	1 month	63, Albert Street (P.)	Bottle	Patent food	5	Privy	Flagged	
F.	2 years	10, Leopold Street (P.)	Ordinary	—	1	Privy	Unpaved	
F.	26 days	44, McCormick Street	Breast	—	—	Pail.	Flagged	
F.	2 years	5, Longshoot	Ordinary	—	—	Pail.	Part flagged	Weakly for 12 months. 4 closets to 9 houses; open yard.
F.	2 months	14, Queen Street	Bottle	Sterilised	—	Pail.	Unpaved	Open yard to 15 houses.
F.	1 yr. 8 months.	7, Swan Street	Bottle	Cow's and Neaves's f.d.	—	Pail.	Unpaved	
F.	3 months	4, Benson's Yd., Gidlow Lane	Bottle	Nestles' and cow's milk.	—	W.C.	Paved	Recently removed from 6, Beresford Street.
F.	7 months	40, Bentinck Street (P.)	Bottle	Cow's milk and Barley water	2	Privy	Open, paved & flagged	Removed to 8, Duke St. (P.), child weak from birth.
F.	5 months	41, Victoria Street (P.)	Bottle	Nestles' and cow's milk.	—	Privy	Parapet, rest unpaved	Adopted child for 9 weeks.
F.	5 months	18, Warrington Road (P.)	Bottle	Cow's milk.	2	Privy	Parapet, rest unpaved	
M.	2 months	133, Billinge Road (P.)	Spoon	Barley water	—	Privy	Flagged and paved	
F.	6 months	16, Low Street	Bottle	Condensed	—	W.C.	Flagged	Mother died when child was born.

## PARTICULARS RE DIARRHŒA DEATHS—Continued.

Sex.	Age.	Address.	How Fed.	Milk.	Previous Deaths from Diarrhœa	W.C. Accom.	Yard.	Remarks.
F.	3 months	1, Lea Street	Bottle	Cow's	—	Pail.	Unpaved	Mother works out.
F.	11 months	68, Platt Lane	Breast	—	—	Pail.	Unpaved	Weak from birth.
F.	4 months	37, Clayton Street	Breast	—	—	Pail.	Flagged	
F.	4 months	45, Soho Street (P.)	Breast	—	—	Privy	Flagged	
F.	1 yr. 1 month	50, Miry Lane	Breast	—	—	W.C.	Paved	
M.	4 months	21, Miry Lane	Bottle	Cow's	—	Pail.	Part flagged	Mother works in mill.
M.	5 months	21, Back Water Street	Bottle	Cow's and Condensed	—	Pail.	Paved	No through ventilation.
M.	5 months	41, Brackley Street (P.)	Bottle	Cow's and Patent Food	—	Privy	Part bricked	
F.	8 months	19, Higham Street	Bottle	Cow's and Patent food.	2	Pail.	Flagged	
M.	6 months	45, Hardybutts	Bottle	Cow's	—	Pail.	Part paved.	Weak from birth.
F.	7 months	6, Frith Street	Bottle	Condensed	—	W.C.	Flagged	First child died 8 days previous to this.
M.	1 yr. 2 months.	133, Billinge Road (P.)	Ordinary	—	1	Privy	Flagged & paved	Weak from birth.
M.	8 months	59, Tunstall Lane (P.)	Bottle	Cow's	—	Privy	Part flagged	previous to this.
F.	2 months	3, Acton's Entry, Lyon St.	Bottle	Condensed	1	Pail.	Flagged	Weak from birth.
F.	3 months	60, Upper Morris Street.	Breast	—	—	Pail.	Flagged	Back-to-back house.
M.	6 months	2, Bank Yard, Coppull Lane	Bottle	Cow's	—	Pail.	Part paved.	Weak from birth.
F.	6 months	54, Clayton Street	Bottle	Cow's	—	Pail.	Part flagged	Mother works out.
F.	6 months	676, Ormskirk Rd. (P.)	Bottle	Cow's	—	Privy	Part flagged	Mother suffered from Diarrhœa.
M.	4 months	2, Jockey Terrace	Bottle	Condensed	1	Pail.	Paved	Mother works out.
M.	6 months	90, Gidlow Lane..	Bottle	Cow's and barley water	—	W.C.	Paved	
M.	7 months	21, Vere Street	Bottle	Cow's and condensed.	—	Pail.	Unpaved	Weak from birth.
F.	6 months	61, Holland Street	Bottle	Cow's	1	Pail.	Part bricked	

PARTICULARS RE DIARRHŒA DEATHS.—*Continued.*

Sex.	Age.	Address.	How Fed.	Milk.	Previous Deaths from Diarrhœa	W.C. Accom	Yard.	Remarks.
M.	8 months	17, Holt Street ..	Bottle	Condensed	—	W.C.	Paved	
F.	7 months	393, Warrington Rd. (P.)..	Bottle	Horlick's Malted Milk.	2	W.C.	Paved	Weak from birth.
F.	11 months	17, Sarginson Street (P.) .	Bottle	Condensed .	—	Privy	Paved	Mother Works in factory.
F.	1 yr 10 months	22, Cambridge Street ..	Breast	—	—	Pail .	Part bricked	
F.	7 months	4, Acton's Walk ..	Bottle	Sterilized ..	—	Pail .	Flagged & bricked	
F.	3 months	54, Walmer Street ..	Bottle	Condensed and patent food	—	Pail .	Flagged ..	
F.	10 months	4, Turner's Yard (P.) ..	Bottle	Cow's	—	Privy	Part flagged	Weak from birth.
M.	6 months	14, Richmond Hill (P.) .	Bottle	Cow's	—	Privy	Part flagged	Weak from birth.
F.	3 months	17, Ingram Street ..	Bottle	Cow's	1	Pail .	Part flagged	Weak from birth.
M.	1 yr. 1 month	16, Taylor Street ..	Breast	—	—	Pail .	Tied ..	
M.	4 months	107, Billinge Road (P.) .	Breast and spoon fed	Condensed .	1	Privy	Flagged ..	
F.	4 months	51, Princess Street ..	Bottle	Cow's	—	Pail .	Part flagged & bricked	
F.	11 months	323, Billinge Road (P.) .	Bottle	Cow's	—	W.C.'s in & out	Flagged ..	Unwell for 8 months.
F.	1 yr. 10 months	2, Rigby's Yd., Scholes .	Ordinary	—	—	Pail .	Unpaved ..	Insanitary property.
M.	2 months	11, Shared Street ..	Bottle	Patent food.	—	Pail .	Flagged ..	
M.	6 months	24, Enfield Street (P.) ..	Bottle	Cow's	—	Privy	Part flagged	Weak from birth.
F.	8 months	3, Ashcroft's Yd., Queen Street	Bottle	Cow's	—	Pail .	Unpaved ..	Insanitary property.
M.	5 months	6, Harrison Street (P.) .	Bottle	Condensed .	—	Privy	Flagged ..	
F.	1 yr. 5 months.	4, Wenlock Street (P.) .	Spoon	Bread and milk	—	Privy	Part flagged	
F.	4 months	19, Marsden Street (P.) .	Bottle	Cow's and patent food.	—	Privy	Part flagged	Weak from birth.
M.	7 months	1, Leader Street (P.) ..	Breast	—	—	Privy	Unpaved ..	

PARTICULARS RE DIARRHŒA 1 EATHS.—Continued.

Sex.	Age.	Address.	How Fed.	Milk.	Previous Deaths from Diarrhœa	W.C. Accom.	Yard.	Remarks.
F.	1 yr 6 months	4, Scot Lane (P.)	Bottle	Cow's	—	Privy	Part paved and flagged.	Weak from birth.
M.	10 months	6, Greenough's Yard, Orchard Street	Breast	—	—	Pail	Flagged	
M.	9 months	22, Frith Street	Breast	—	—	Pail	Part flagged	
M.	1 yr. 4 months	25, Sarginson Street (P.)	Breast	—	1	Privy	Paved	
M.	8 months	188, Enfield Street (P.)	Bottle	Cow's	—	Privy	Unpaved	Weak from birth.
F.	1 yr. 2 months	44, Albert Street (P.)	Spoon	Cow's	—	Privy	Part bricked	
F.	10 months	10, Grosvenor Street (P.)	Bottle	Cow's	—	Privy	Part flagged	
F.	3 months	42, Lower Morris Street.	Breast and spoon	Cow's	—	Pail	Unpaved	Mother works in factory
M.	1 yr. 8 months	46, Lower St. Stephen St.	Breast	—	—	W.W.	Flagged	Weak from birth.
M.	1 year	7, Moore's Buildings	Breast	—	1	Pail	Unpaved	Weak from birth; In-sanitary property condemned.
M.	1 yr. 3 months	25, Regent Street	Breast	—	—	Pail	Part flagged	Weak from birth.
M.	1 yr. 2 months	59, Lorne Street	Spoon	Cow's	5	Pail	Part flagged	
M.	1 yr. 5 months	2, Bolton Street	Spoon	Cow's	—	Pail	Part flagged	
M.	1 month	23, Driving Lane	Breast	—	—	Pail	Paved	
F.	6 months	7, Warrington Road (P.)	Bottle	Condensed	—	W.C.	Flagged	Weak from birth.
M.	2 months	7, Harrison Street (P.)	Bottle	Cow's	—	Privy	Flagged	Weak from birth.
M.	7 months	11, Factory Street (P.)	Bottle	Condensed	—	Privy	Part flagged	Mother works in factory.
M.	4 months	4, Stanley St., Platt Lane.	Bottle	Condensed	—	Pail	Unpaved	
M.	4 months	20, Kildare Street (P.)	Bottle	Condensed	—	Privy	Flagged	
F.	1 yr. 6 months	7, Manchester Place	Breast	—	—	Pail	Unpaved	Weak from birth.
F.	1 yr. 3 months	215, Billinge Road (P.)	Bottle	Cow's and patent food. Sterilised	—	Privy	Paved	Weak from birth.
M.	4 months	14, Yates Street	Bottle	—	—	Pail	Flagged, defective	
F.	9 months	69, Marsh Green (P.)	Breast	—	2	Privy	Unpaved	

## SUMMARY.

Breast Fed ... ..	...	...	...	...	19
Breast and Spoon Fed, Cow's Milk			...	...	1
Breast and Spoon Fed, Condensed Milk				...	1
Bottle, Cow's Milk ... ..	...	...	...	...	30
Bottle, Condensed Milk		...	...	...	15
Bottle, Sterilized Milk		...	...	...	3
Bottle, Patent Foods		...	...	...	3
Bottle, Cow's and Condensed Milk			...	...	4
Spoon Fed, Cow's Milk		...	...	...	5
Ordinary Food ... ..	...	...	...	...	6
					<hr style="width: 100%;"/>
Total			...	...	87
					<hr style="width: 100%;"/>



STREETS IN WIGAN FROM WHICH DEATHS FROM DIARRHŒA  
HAVE OCCURRED.

	1908	1907		1908	1907
Act'n's Ent'y, Ly'n St.	1	1	Lower Morris St. . .	1	2
Acton's Walk . . . . .	1	—	L'w'r St. Steph'n St.	1	—
Asher'ft's Yd., Qu'n St.	1	—	Lyon Street . . . . .	1	1
Bank's Yd., Copp'l L.	1	—	Manchester Place . .	1	—
Beason's Yd., Gid. L.	1	—	Miry Lane . . . . .	2	1
Bk. Water Street . .	1	—	McCormick Street . .	2	—
Bolton Street . . . . .	1	—	M're's Blds., Fr'g Lne.	1	—
Cambridge Street . .	1	—	Park Street . . . . .	1	—
Clayton Street . . . . .	2	2	Prescott Street . . . .	1	—
Driving Lane . . . . .	1	—	Princess Street . . . .	1	3
Frith Street . . . . .	2	—	Platt Lane . . . . .	1	1
Gidlow Lane . . . . .	1	—	Queen Street . . . . .	1	—
Greenough's Yard,			Regent Street . . . . .	1	—
Orchard Street . .	1	—	Rigby's Yd., Scholes	1	—
Hardybutts . . . . .	2	—	Shared Street . . . . .	1	—
Herbert Street . . . .	1	—	St'nl'y Sq., Platt L'e.	1	—
Higham Street . . . .	1	—	Swann Street . . . . .	1	—
Holland Street . . . .	1	—	Taylor Street . . . . .	1	—
Holt Street . . . . .	1	—	Upper Morris Street	1	1
Ingram Street . . . .	1	—	Vere Street . . . . .	1	1
Jockey Terrace . . . .	1	—	Von Blucher Square	1	—
Lea Street . . . . .	1	—	Walmer Street . . . .	1	1
Longshoot . . . . .	1	1	Yates Street . . . . .	1	—
Lorne Street . . . . .	1	—			
Lowe Street . . . . .	1	—			

STREETS IN PEMBERTON IN WHICH DEATHS FROM DIARRHŒA  
HAVE OCCURRED.

	1908	1907		1908	1907
Albert Street . . . . .	2	—	Marsden Street . . . .	1	—
Atherton Street . . . .	1	—	Marsh Green . . . . .	1	1
Bentinck Street . . . .	1	—	Ormskirk Road . . . .	1	2
Billinge Road . . . . .	5	—	Richmond Hill . . . .	1	—
Brackley Street . . . .	1	—	Sarginson Street . . .	2	—
Bridgewater Street . .	1	1	Scot Lane . . . . .	1	1
Enfield Street . . . . .	2	1	Soho Street . . . . .	1	1
Factory Street . . . . .	1	—	Tunstall Lane . . . . .	1	—
Grosvenor Street . . . .	1	—	Turner's Yard, War-		
Harrison Street . . . .	2	—	ington Road . . . . .	1	—
Kildare Street . . . . .	1	—	Victoria Street . . . .	1	—
Leader Street . . . . .	1	—	Warrington Road . . .	3	—
Leopold Street . . . . .	1	—	Wenlock Street . . . .	1	—

## DIPHTHERIA.

Number of Notifications .....	36
Number of Deaths, including Croup .....	10
Mortality per 1,000 of Population.....	·10

We have had a decrease in the number of cases notified, namely, 36, against 66 in 1907, and the mortality is less, namely, ·10 per 1,000 of population, against ·15. The following table shows the number of cases notified, and the number of deaths :—

	Notified.	Deaths.
January .. .. .	3	2
February .. .. .	4	3
March .. .. .	2	—
April .. .. .	5	1
May .. .. .	—	—
June .. .. .	2	—
July .. .. .	2	—
August .. .. .	2	—
September .. .. .	2	—
October .. .. .	3	2
November .. .. .	9	2
December .. .. .	2	—
	36	10

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

Number of swabs, 20.

Staphylococci present 6, Bacillus absent 5.

Streptococci present 2.

Mixed Growth, Suspicious Bacilli present 2,

,, Probably Bacilli Diphtheria 2.

No Growth 3.

## DIPHTHERIA CASES, 1908.

Address.	Sanitary Surroundings.
3, Peet Street, Poolstock ..	Yard and drainage undergoing repairs.
12, Peet Street, Poolstock ..	Yard flagged, drains trapped, pail closet.
261, Scholes .....	Yard flagged and bricked, defective drains, pail closet.
35, Tunstall Lane (P.) .....	Yard flagged and paved, defective drains, privy midden.
11, Rigby's Yard, Scholes ..	Yard bricked, drains trapped, pail closet, insanitary surroundings, no paving in front.
50, Bentinck Street (P.) ....	Yard part flagged, drains trapped, privy midden, defective closet and ashhouse roof.
184, Frog Lane .....	Yard bricked, drains trapped, pail closet.
656, Ormskirk Road (P.) ..	Yard flagged, drains trapped, privy midden.
656, Ormskirk Road (P.), 3 cases).....	Complaint of stench from wet gas meter.
159, Hodges Street .....	Yard part flagged, drains trapped, waste water closet.
5, Tunstall Lane (P.) .....	Yard part flagged, drains trapped, privy midden.
41, Brackley Street (P.) ....	Yard part bricked, drains trapped, privy midden.
16, Greenough Street .....	Yard flagged, drains trapped, pail closet.
16, Greenough Street .....	Complaint of stench from gas stove.
Highfield Club, (P.) .....	Yard flagged, drains trapped, privy midden.
54, Silver Street .....	Yard part flagged, drains trapped, pail closet.
271, Ormskirk Road (P.) ..	Yard concreted, drains trapped, privy midden.
18, Upper Dicconson Street .	Yard flagged, drains trapped, water closet.
10, Burlington Street .....	Yard part flagged, drains trapped, pail closet.
40, Caunce Street .....	Yard flagged, drains trapped, pail closet.
2, Beaconsfield Street .....	Yard flagged, drains trapped, pail closet.
56, Vauxhall Road .....	Yard flagged, drains trapped, water closet.
36, Enfield Street (P.) .....	Yard part flagged, drains trapped, privy midden.
13, Field Street (2 cases) ..	Yard flagged, drains defective, pail closet.
38, Ormskirk Road (P.) ....	Yard tiled, drains trapped, privy midden.
23, Victoria Avenue .....	Yard flagged, drains trapped, waste water closet (smells)
Corporation Electric Works, House	Yard flagged, defective drains, slopstone pipe and bath waste pipe connected, pail closet.
County Police Buildings (2 cases) Crawford Street ..	Yard concreted, drains trapped, water closet.
35, Brackley Street (P.) ....	Yard paved, drains trapped, privy midden.
5, Norley Road (P.) .....	Yard unpaved, drains trapped, privy midden.
27, Shelmerdine Street .....	Yard flagged, drains trapped, pail closet, want of ash house roof.
17, New Square .....	Yard flagged and paved, drains trapped, water closet.
441, Warrington Road (P.) ..	Yard unpaved, drains defective, privy midden.
70, Dicconson Street .....	Yard flagged, drains trapped, water closet, inside house, pail closet outside.

## ERYSIPELAS.

Number of Cases Notified .....	71
Number of Deaths.....	—
Mortality per 1,000 of Population .....	—

We have a less Number of Notifications, and, I am pleased to say, we have no deaths.

Insanitary conditions were found in 15 instances.

LIST OF HOUSES IN WHICH CASES OF ERYSIPELAS HAVE OCCURRED DURING 1908.

Address.	Cause.	Condition of Yards and other Remarks.
25, Shelmerdine Street ..	From cold ..	Yard flagged, drains trapped, pail closet.
7, Wilcock Street ..	From cold ..	Yard flagged and bricked, drains trapped, pail closet.
130, Enfield Street (P.) ..	Probably from cold ..	Yard part flagged, drains trapped, privy midden.
61, Brookhouse Street ..	Probably from cold ..	Yard flagged, drains trapped, pail closet.
80, Swinley Road ..	Probably from cold ..	Yard flagged, drains trapped, water closet inside, pail outside.
43, Cambridge Street ..	From cold ..	Yard unpaved, drains trapped, pail closet.
2, Manor Street ..	Probably from cold ..	Yard flagged, drains trapped, water closet.
147, Enfield Street (P.) ..	Probably from cold ..	Yard part flagged, drains trapped, privy midden.
37, Thicknesse Avenue ..	Probably from cold ..	Yard flagged, drains trapped, pail closet.
1, Dicconson Terrace ..	Probably from cold ..	Yard flagged, drains trapped, water closet inside, waste water closet outside.
157, Normanton Street (P.) ..	Probably from cold ..	Yard flagged, drains trapped, privy midden, street unpaved.
429, Warrington Road (P.) ..	Probably from accident ..	Yard part flagged, drains trapped, privy midden.
12, Jockey Terrace ..	From accident..	Yard paved, drains trapped, waste water closet.
412, Billinge Road (P.) ..	Probably from cold ..	Yard flagged, drains trapped, water closet.
18, Earl Street ..	Probably from cold ..	Yard part flagged (defective surface), drains trapped.
8, Queen Street (P.) ..	From accident..	Yard paved, drains trapped, privy midden.
15, Gordon Street ..	Probably from cold ..	Yard flagged, drains choked, pail closet.
24, Folly ..	Probably from cold ..	Yard flagged and paved, drain untrapped, pail closet.
105, Great George Street ..	Probably from cold ..	Yard flagged, drains defective, pail closet.
7, Noble Street (P.) ..	Probably from cold ..	Yard flagged, drains trapped, privy middens.
24, Byron Street ..	Probably from cold ..	Yard flagged, drains trapped, pail closet.
214, Gidlow Lane ..	Probably from cold ..	Yard flagged, drains trapped, water closet.
9, Billinge Road (P.) ..	Probably from cold ..	Yard flagged, drains choked, pail closet.
44, Queen Street (P.) ..	Probably from cold ..	Yard paved, drains trapped, privy middens.

LIST OF HOUSES IN WHICH CASES OF ERYSIPELAS HAVE OCCURRED DURING 1908.

Address.	Cause.	Condition of Yards and other Remarks.
14, McCormick Street .. .. .	Probably from cold .. .. .	Yard flagged, drains trapped, pail closet.
267, Warrington Road (P.) .. .. .	Rheumatism .. .. .	Yard flagged, drains trapped, privy middens.
Plough and Harrow Inn, Chapel St. (P.) .. .. .	Probably from cold .. .. .	Yard flagged, drains trapped, privy midden.
9, Dicconson Street .. .. .	Probably from accident .. .. .	Yard flagged and bricked, drains trapped, water closet.
42, Ellesmere Road (P.) .. .. .	Not known .. .. .	Yard flagged, drains trapped, privy midden.
111, Great George Street .. .. .	Not known .. .. .	Yard flagged, drains trapped, pail closet.
77, Platt Lane .. .. .	From accident.. .. .	Yard unpaved, drains trapped, pail closet, no slopstone.
12, Gilroy Street .. .. .	Probably from cold .. .. .	Yard paved, drains trapped, no slopstone, waste water closet.
37, Billinge Road (P.) .. .. .	Probably from cold .. .. .	Yard part flagged, drains trapped, privy.
120, Hardybutts .. .. .	Probably from cold .. .. .	Yard flagged, drains trapped, waste water closet.
78, Poolstock Lane (P.) .. .. .	Probably from cold .. .. .	Yard flagged, drains trapped, privy.
2, Knowles Avenue (P.) .. .. .	Probably from cold .. .. .	Yard part flagged, drains trapped, pail closet.
2, Lancaster's Yard, Lyon Street .. .. .	Probably from cold .. .. .	Yard part flagged, drains trapped, pail closet.
13, Victoria Street (P.) .. .. .	Probably from cold .. .. .	Yard flagged and paved, drains trapped, privy.
19, Baron Street .. .. .	Probably from accident .. .. .	Yard flagged, drains trapped, pail closet.
584, Warrington Road (P.) .. .. .	Probably abscess .. .. .	Yard flagged, drains trapped, water closet.
Buckley House, Gidlow .. .. .	Probably cut or scratch .. .. .	Yard flagged, drains trapped, pail closet.
21, Alexandra Street (P.) .. .. .	Probably cut or scratch .. .. .	Yard part flagged, drains trapped, privy.
120, Whelley .. .. .	From cold .. .. .	Yard paved, drains trapped, water closet.
1, Walkden Avenue .. .. .	— .. .. .	Yard flagged, drains trapped, water closet.
15, Coronation Street .. .. .	— .. .. .	Yard flagged, drains trapped, water closet.
86, Hallgate .. .. .	— .. .. .	Yard flagged, waste water closet, drains trapped.
9, Charles Street .. .. .	— .. .. .	Yard flagged, drains trapped, pail closet.
11, Silver Street .. .. .	— .. .. .	Yard part bricked, defective surface, drains trapped, pail closet.

LIST OF HOUSES IN WHICH CASES OF ERYSIPELAS HAVE OCCURRED DURING 1908.

Address.	Cause.	Condition of Yards and other Remarks.
11, River Street .. .. .	From cold .. .. .	Yard flagged, drains trapped, waste water closet.
2, Greenough Yard .. .. .	Probably from cold .. .. .	Yard flagged, drains trapped, pail closet.
59, Hallgate .. .. .	Probably from cold .. .. .	Yard part flagged, drains trapped, pail closet.
95, Platt Lane .. .. .	Probably from cold .. .. .	Yard part flagged, drains trapped, pail closet.
• 1, Dicconson's Entry, Lyon Street .. .. .	From cold .. .. .	Yard flagged, drains trapped, pail closet.
15, Rupert Street .. .. .	— .. .. .	Yard part flagged, defective surface, drains trapped, pail closet.
192, Enfield Street (P.) .. .. .	From cold .. .. .	Yard unpaved, drains trapped, privy midden.
2, Mooney's Yard (P.) .. .. .	From cold .. .. .	Yard flagged, drains trapped, privy midden.
26, Bridgewater Street .. .. .	From cold .. .. .	Yard part flagged, pail closet.
36, Canal Street .. .. .	From accident.. .. .	Yard flagged, drains trapped, pail closet.
28, Walmer Street .. .. .	From cold .. .. .	Yard flagged, drains trapped, pail closet.
12, Bolton Street .. .. .	From accident .. .. .	Yard part flagged, pail closet.
31, Ormandy's Houses .. .. .	— .. .. .	Yard unpaved, drains trapped, pail closet.
3, Cowling's Place, off Leader St. (P.) .. .. .	From cold .. .. .	Yard unpaved, drains trapped, privy, defective roof.
32, Orchard Street .. .. .	From cold .. .. .	Yard part flagged, drains trapped, pail closet.
35, Barnsley Street .. .. .	Probably from cold .. .. .	— .. .. .
44, Park View .. .. .	Probably from cold .. .. .	Yard flagged, drains trapped, water closet inside, pail closet outside.
304, Woodhouse Lane .. .. .	Probably from cold .. .. .	Yard part flagged, drains trapped, pail closet.
50, Ormskirk Road (P.) .. .. .	From accident.. .. .	Yard tiled, drains trapped, privy.
20, Dean Street .. .. .	From ulcer .. .. .	Yard flagged, drains trapped, pail closet, defective scullery walls.
3, Holt Street .. .. .	From accident.. .. .	Yard flagged, drains trapped, pail closet.
7, Marsden Street (P.) .. .. .	From accident.. .. .	Yard unpaved, drains trapped, privy middens.
22, Chapel Lane .. .. .	From cold .. .. .	Yard flagged, drains trapped, water closet.

## PUERPERAL FEVER.

Number of cases notified	...	...	12
Number of Deaths	...	...	8
Mortality per 1,000 of population	...	...	.086

We have an increase in the number of cases notified, and an increase in the death-rate. None of the cases appear to have been communicated, and everything was done to prevent communication of the disease to others.

## SANATORIUM.

The arrangements made in the nursing department have been satisfactory, and the accommodation ample.

The Doecker Hospital is sufficient for the Small Pox cases, and the improvements made, on its removal from the old site, have been of great advantage.

In the Pemberton Hospital, there were 8 cases of other diseases on January 1st. During the year there was 1 admitted and 9 discharged of other diseases.

The number of infectious cases notified compulsorily is as follows :—

	Notifications.	Removed to Sanatorium.	Died in Sanatorium.
Small Pox ... ..	—	—	—
Typhus ... ..	—	—	—
Scarlet Fever ... ..	220	138	7
Enteric ... ..	103	69 4*	16
Diphtheria ... ..	36	—	—
Puerperal Fever ... ..	12	—	—
Cholera ... ..	—	—	—
Membranous Group ... ..	—	—	—
Erysipelas ... ..	71	—	—
Other ... ..	—	20	2
Total .. ..	442	227	25

In the Sanatorium on December 31st, 1908, there were 32 patients, namely, Scarlet Fever 22, Enteric Fever 9, others 1.

\*Aspull cases.

	Small-pox.	Scarlet.	Enteric.	Others.	Total.
In-patients Jan. 1, '08	—	14	7	1	22
Admitted in 1908 ...	—	138	69	20	227
Discharged „ ...	—	123	51	18	192
Died „ ...	—	7	16	2	25
In-patients Jan. 1, '09	—	22	9	1	32

The number of deaths in the Sanatorium was 25; 7 died from Scarlet Fever, 16 from Enteric, and 2 from other diseases.

During the year there were 192 patients discharged, and 25 died, making a total of 17.

The number of days they were in was 7,501, or 34.5 days for each patient, against 35.3 days average for 1907.

The total cost of Administration of the Sanatoria (Wigan and Pemberton), 226 patients, is as follows:—

	£	s	d.
Master, Matron, and Nurses, wages ...	518	17	5
Porters, wages... ..	195	0	0
Food ... ..	759	16	4½
Stimulants ... ..	104	18	7
Crockery, Ironmongery, Repairs, &c. ...	142	4	11
Coal, Coke, and Carting ... ..	180	1	9
Medical Requisites ... ..	25	0	4
Drapery ... ..	51	14	5
Gas, Water, Electricity, and Repairs ...	179	2	4
Sundries ... ..	7	14	1
Rent, Rate, and Insurance ... ..	146	17	5
Medical Superintendent ... ..	150	0	0
Clerk ... ..	10	0	0
	<u>£2,540</u>	<u>7</u>	<u>7½</u>

### SANATORIUM STAFF.

Master	2 Ward Maids.
House Keeper.	1 Housemaid-Waitress.
5 Nurses.	1 Kitchenmaid.
5 Probationers.	1 Scullery Maid.
1 Laundress.	1 Porter and Gardener.
2 Assistant Laundresses.	1 Assistant Gardener.

### PEMBERTON SANATORIUM.

1 Nurse.	1 Caretaker.
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WIGAN SANATORIUM.—TABLE OF ADMISSIONS AND DISCHARGES FOR 1908.

1908.	Admitted.					Discharged.					Died.							
	Small-pox.	Scarlet Fever	Enteric.	Typhus.	Others	Total.	Small-pox.	Scarlet Fever.	Enteric.	Typhus	Others.	Total.	Small-Pox.	Scarlet Fever.	Enteric.	Typhus	Others.	Total.
January .....	0	6	6	0	2	14	0	13	4	0	0	17	0	0	1	0	1	2
February .....	0	7	3	0	0	10	0	5	8	0	1	14	0	1	0	0	0	1
March .....	0	11	4	0	2	17	0	6	2	0	1	9	0	2	1	0	0	3
April .....	0	5	3	0	2	10	0	5	2	0	0	7	0	0	1	0	0	1
May .....	0	5	2	0	3	10	0	10	4	0	1	15	0	0	0	0	1	1
June .....	0	13	2	0	2	17	0	2	3	0	2	7	0	1	1	0	0	2
July .....	0	10	5	0	2	17	0	12	2	0	2	16	0	0	2	0	0	2
August .....	0	7	6	0	2	15	0	10	1	0	0	11	0	0	2	0	0	2
September .....	0	15	4	0	2	21	0	6	4	0	5	15	0	2	1	0	0	3
October .....	0	25	16	0	3	44	0	10	6	0	4	20	0	1	2	0	0	3
November .....	0	17	8	0	0	25	0	16	11	0	2	29	0	0	4	0	0	4
December .....	0	17	10	0	0	27	0	28	4	0	0	32	0	0	1	0	0	1
Total .....	0	138	69	0	20	227	0	123	51	0	18	192	0	7	16	0	2	25

## CONSTITUTIONAL DISEASES.

### TUBERCULAR DISEASES.

Under the heading of Tubercular Diseases we include deaths from Consumptive Diseases, such as Phthisis Pulmonalis, Tabes Mesenterica, Tubercular Meningitis, Wasting Diseases of Infants (Marasmus), and other Tubercular affections.

The number of deaths from Phthisis is 75, against 84 in 1907, and 103 in 1906. The number of deaths from other Tubercular affections is 77, against 38 in 1907, and 40 in 1906.

From Wasting Diseases of Infants we have 48 deaths, against 45 in 1907.

The rates are as follows :—

Phthisis Pulmonalis .....	·81	per 1,000 of population.
Other Tubercular Diseases	·83	„
Wasting Diseases of Infants	·52	„

If taken together as Tubercular affections we have 200 deaths, or a rate of 2·17 per 1,000 of population.

### PHTHISIS AND TUBERCULAR DISEASES BUT NOT INCLUDING MARASMUS.

The deaths occurred in the following wards :—

St. George Ward	..	..	..	..	..	7
Lindsay Ward	..	..	..	..	..	10
St. Catharine Ward	..	..	..	..	..	15
St. Patrick Ward	..	..	..	..	..	16
St. Thomas Ward	..	..	..	..	..	4
Poolstock Ward	..	..	..	..	..	9
Victoria Ward	..	..	..	..	..	8
St. Andrew Ward	..	..	..	..	..	9
Swinley Ward	..	..	..	..	..	11
All Saints Ward	..	..	..	..	..	3
West Pemberton Ward	..	..	..	..	..	7
North Pemberton Ward	..	..	..	..	..	19
Central Pemberton Ward	..	..	..	..	..	11
South Pemberton Ward	..	..	..	..	..	9
In Union Workhouse, but belonging to Wigan	..	..	..	..	..	14

PHTHISIS CASES TREATED IN DOECKER  
IN 1908.

Case.	Patient.	Age.	Days in.	Where from.	Result.
1	S.P.	35	42	Ince	Relieved
2	O'H.	17	60	Wigan	Unrelieved
3	W.M.	20	94	Wigan	Relieved
4	W.H.	13	91	Hindley	Cured
5	E.P.	28	172	Wigan	Relieved
6	D.B.	26	180	Hindley	Unrelieved
7	J.G.	36	113	Wigan	Relieved
8	E.W.	24	74	Ince	Relieved
9	E.F.	23	63	Wigan	Unrelieved
10	G.T.	41	73	Ashton	Improved
11	W.H.	36	103	Wigan	Relieved
12	J.M.	23	18	Wigan	Left on own accord
13	W.C.	36	1	Wigan	Unrelieved



## DEATHS AND RATES FROM PHTHISIS FOR PAST YEARS.

Year.	No. of Deaths.	Rate per 1,000.
1896	66	1.09
1897	69	1.14
1898	59	.93
1899	59	.94
1900	69	1.09
1901	73	1.18
1902	55	.89
1903	74	1.1
1904	70	1.08
1905	92	1.04
1906	108	1.20
1907	84	.92
1908	75	.81

### RHEUMATISM.

Rheumatism caused 13 deaths, against 12 deaths in 1907, and 8 in 1906, and we have 61 deaths from heart affections, against 101 in 1907, and 91 in 1906.

### LOCAL DISEASES.

Respiratory Diseases, such as Pneumonia and Bronchitis, caused 333 deaths, against 402 in 1907. Pneumonia caused 179, against 233; and Bronchitis caused 154, against 169.

### INQUESTS AND UNCERTIFIED DEATHS.

The number of inquests for 1908 is 156, against 136 for 1907, and 123 in 1906, and the following verdicts have been recorded:—

1	Natural causes	..	..	..	..	..	56
2.	Accidents, burnt	..	..	..	..	..	10
	„ tram car	..	..	..	..	..	1
	„ run over	..	..	..	..	..	5
	„ scalded	..	..	..	..	..	10
	„ colliery	..	..	..	..	..	21
	„ fall downstairs	..	..	..	..	..	3
	„ drowned	..	..	..	..	..	3
	„ falls	..	..	..	..	..	11
	„ railway	..	..	..	..	..	1
	„ suffocation	..	..	..	..	..	1
	„ poisoned	..	..	..	..	..	1
	„ mill	..	..	..	..	..	1
	„ others	..	..	..	..	..	8
3.	Suicides, hanging	..	..	..	..	..	5
	„ drowning	..	..	..	..	..	1
	„ asphyxia	..	..	..	..	..	1
4.	Others	..	..	..	..	..	16
5.	Murder, blows	..	..	..	..	..	1
							<u>156</u>

There were 2 uncertified deaths in 1908, against 0 in 1907, and 14 in 1906.

Premature Births, 2.

REPORT OF THE COMMISSIONER OF THE GENERAL LAND OFFICE  
FOR THE YEAR 1898

CLASS OF LAND	ACRES	AMOUNT OF RENT RECEIVED
1. Crown Land	1,234,567	£1,234,567
2. Land in the hands of the Crown	1,234,567	£1,234,567
3. Land in the hands of the Colonies	1,234,567	£1,234,567
4. Land in the hands of the Native Proprietors	1,234,567	£1,234,567
5. Land in the hands of the Native Proprietors (continued)	1,234,567	£1,234,567
6. Land in the hands of the Native Proprietors (continued)	1,234,567	£1,234,567
7. Land in the hands of the Native Proprietors (continued)	1,234,567	£1,234,567
8. Land in the hands of the Native Proprietors (continued)	1,234,567	£1,234,567
9. Land in the hands of the Native Proprietors (continued)	1,234,567	£1,234,567
10. Land in the hands of the Native Proprietors (continued)	1,234,567	£1,234,567

There were 2 unclassified deaths in 1898, against 0 in 1897, and 14 in 1896.

The following table shows the number of deaths in 1898, against 0 in 1897, and 14 in 1896.

TABLES AND UNCLASSIFIED DEATHS

The number of deaths in 1898, against 0 in 1897, and 14 in 1896.

## **PART III.**

# General Sanitary Work.

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**FACTORY AND WORKSHOP ACT, 1901**  
**SHOP HOURS ACTS, 1892 TO 1899**  
**SHOP HOURS ACT, 1904. CLOSING ORDER**  
**MEAT INSPECTION AND SLAUGHTER HOUSES**  
**DAIRIES, COWSHEDS AND MILKSHOPS ORDER, 1885 & 1886**  
**WATER SUPPLY AND RAINFALL**  
**BLACK SMOKE NUISANCE**  
**PROPERTY UNFIT FOR HUMAN HABITATION**  
**UNPAVED YARDS AND PASSAGES**  
**BOROUGH SURVEYOR'S DEPARTMENT**  
**SCAVENGING**  
**MIDWIVES ACT, 1902**  
**NOTIFICATION OF BIRTHS ACT, 1907**  
**EDUCATION ACT, 1902, 1904**  
**PUBLIC ANALYST REPORT**  
**APPENDIX**



General Sanitary Work.

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FACTORY AND WORKSHOP ACT, 1891	1
SHOP HOURE ACTS, 1892 TO 1900	1
SHOP HOURE ACT, 1900 (GLASGOW ORDERS)	1
AIR ACT INSPECTION AND CLEANING ORDERS	1
DAIRIES, DOWNSHEDS AND MILKSHOPS ORDERS, 1891 & 1892	1
WATER SUPPLY AND RAINFALL	1
BLACK SMOKE ORDERS	1
PROPERTY DEEDS FOR HOUSE REGISTRATION	1
IMPROVED YARDS AND PASSAGES	1
HOUSING SURVEYORS' REGULATION	1
REGULATIONS	1
INDUSTRIAL ACT, 1891	1
REGULATION OF RENTALS ACT, 1891	1
EDUCATION ACT, 1902 (1904)	1
PUBLIC HEALTH ACT, 1902	1
APPENDIX	1

## FACTORY AND WORKSHOP ACT, 1901.

The Workshops have been regularly and systematically visited by Inspector Bishop, also the Factories, on receipt of report from H.M. Inspectors. I subjoin Inspector Bishop's report on the same, also his report on the Shop Hours Acts of 1892-1899, and Closing Order, 1904.

### 1.—INSPECTION.

Premises.	No. of Inspections.	No. of Written Notices.
Factories (including Factory Laundries) ..	189	2
Workshops (including Workshop Laundries) .	1,115	46
Workplaces .. .. .	—	—
<b>Total .. .. .</b>	<b>1,304</b>	<b>48</b>

### 2.—DEFECTS FOUND.

Particulars.	No. of Defects Found.	No. of Defects Remedied
<i>Nuisances under Public Health Acts :</i>		
Want of Cleanliness .. .. .	26	25
Want of Ventilation .. .. .	3	1
Overcrowding .. .. .	—	—
Want of Drainage of Floors .. .. .	3	2
Other Nuisances .. .. .	2	1
Sanitary .. .. .	2	2
Accommodation { insufficient .. .. .	8	4
{ unsuitable or defective .. .. .	2	1
{ not separate for sexes.. .. .		
<i>Offences under the Factory and Workshop Act :</i> ..		
Illegal occupation of underground bakehouse ..	3	2
Breach of special sanitary requirements for bakehouses	80	77
Other offences .. .. .	2	2
<b>Total .. .. .</b>	<b>131</b>	<b>117</b>

## 3.—HOME WORK.

Nature of Work.	OUTWORKERS LISTS, SECTION 107.						
	Lists Received from Employers.				Number of Addresses of Outworkers received from other Councils.	Number of Addresses of Outworkers forwarded to other Councils.	Notices served on Occupiers as to keeping or sending Lists.
	Twice in the year.		Once in the year.				
	Lists.	Out-wrks.	Lists.	Out-wrks.			
WEARING APPAREL :							
(1) Making, &c. ..	70	210	4	9	5	15	23
(2) Cleaning, &c. ..	—	—	—	—	—	—	—

Number of Inspections of Outworkers' Premises, 151.

## 4.—REGISTERED WORKSHOPS.

Workshops on the Register (s. 131) at the end of the year.	Number.
Workshops .. .. .	450
Bakehouses .. .. .	150
Domestic Workshops (not Outworkers)	73
<b>Total Number of Workshops on Register .. .. .</b>	<b>673</b>

## 5.—OTHER MATTERS.

Class.	Number.
<i>Matters notified to H.M. Inspector of Factories :—</i>	
Failure to affix Abstract of the Factory and Workshop Act (s. 133) .. .. .	47
Notified by H.M. Inspector .. .. .	8
Report (of action taken) sent to H.M. Inspector .. .. .	6
Other .. .. .	—
<i>Underground Bakehouses (s. 101) .—</i>	
Certificates granted during the year .. .. .	—
In use at the end of the year .. .. .	9

LIST OF WORKSHOPS UNDER THE FACTORY  
AND WORKSHOP ACT, 1901.

No.	Address.	Trade.	No.	Address.	Trade.
1.—9,	Standishgate	Tailor.	57.—	Standishgate	Dressmaker.
2.—114,	Standishgate	..	58.—7,	Standishgate	..
3.—55,	Standishgate	..	59.—11,	Standishgate	..
4.—107,	Standishgate	..	60.—1,	Church Street	..
5.—42,	Standishgate	..	61.—12,	Wigan Lane	..
6.—1,	Church Street	..	62.—30,	Wigan Lane	..
7.—7,	New Market Street	..	63.—138,	Wigan Lane	..
8.—37,	New Market Street	..	64.—23,	Wigan Lane	..
9.—22,	Bold Street	..	65.—24,	Baron Street	..
10.—71,	Spring Street	..	66.—29,	Mesnes Street	..
11.—42,	Wigan Lane	..	67.—5,	Dorning Street	..
12.—57,	Mesnes Street	..	68.—185,	Dorning Street	..
13.—27,	Mesnes Street	..	69.—41,	Richmond Street	..
14.—71,	Mesnes Street	..	70.—7,	Library Street	..
15.—10,	Library Street	..	71.—36,	Dicconson Street	..
16.—55,	Library Street	..	72.—2,	Pitt Street	..
17.—19,	King Street	..	73.—21,	Market Place	..
18.—30,	King Street	..	74.—85,	Millgate	..
19.—	King Street	..	75.—36,	Swan Meadow Road	..
20.—11,	Dicconson Street	..	76.—120,	Chapel Lane	..
21.—12,	Dicconson Street	..	77.—85,	Corporation Street	..
22.—27,	Dicconson Street	..	78.—51,	Corporation Street	..
23.—74,	Dicconson Street	..	79.—50,	Pool Street	..
24.—	Brick Kiln Lane	..	80.—70,	Pool Street	..
25.—10,	Crompton Street	..	81.—108,	Pool Street	..
26.—	Crompton Street	..	82.—116,	Hardybutts	..
27.—29,	Market Place	..	83.—164,	Hardybutts	..
28.—21,	Hailgate	..	84.—4,	Hardybutts	..
29.—54a,	Market Street	..	85.—35,	Hardybutts	..
30.—10,	Market Street	..	86.—265,	Gidlow Lane	..
31.—80,	Market Street	..	87.—21,	Hodges Street	..
32.—56a,	Market Street	..	88.—69,	Schofield Lane	..
33.—54,	Millgate	..	89.—1,	Westmoreland Street	..
34.—130,	Gidlow Lane	..	90.—4,	Worsley Terrace	..
35.—10,	Worsley Terrace	..	91.—101,	Clayton Street	..
36.—89,	Greenough Street	..	92.—6,	Great George Street	..
37.—22,	Greenough Street	..	93.—73,	Greenough Street	..
38.—20,	Rodney Street	..	94.—14,	Greenough Street	..
39.—24,	Scarbrick Street	..	95.—37,	Greenough Street	..
40.—90,	Darlington Street East	..	96.—2,	Turner Street	..
41.—15,	Queen Street	..	97.—13,	Charles Street	..
42.—	Wallgate	..	98.—13,	Duke Street	..
43.—290,	Wallgate	..	99.—96,	Barnsley Street	..
44.—	Wallgate	..	100.—57,	Springfield Road	..
45.—1,	Wallgate	..	101.—11,	Whelley	..
46.—	Wallgate	..	102.—12,	Whelley	..
47.—13,	Wallgate	..	103.—118,	Darlington Street East	..
48.—	Wallgate	..	104.—170,	Darlington Street East	..
49.—105,	Wallgate	..	105.—121,	Darlington Street East	..
50.—2,	Scholes	..	106.—173,	Darlington Street East	..
51.—18,	Makinson Arcade	..	107.—49,	Frog Lane	..
52.—832,	Ormskirk Road	..	108.—24,	Darlington Street	..
53.—737,	Ormskirk Road	..	109.—36,	Darlington Street	..
54.—788,	Ormskirk Road	..	110.—62,	Darlington Street	..
55.—793,	Ormskirk Road	..	111.—19,	Vauxhall Road	..
56.—	Spencer's Fold	..	112.—48,	Birkett Bank	..

## WORKSHOPS UNDER THE FACTORY AND WORKSHOP ACT.—Continued.

No.	Address.	Trade.	No.	Address.	Trade.
113.—2,	Holme Street	Dressmaker	170.—158,	Wallgate	Milliner
114.—111,	Wallgate	"	171.—164,	Wallgate	"
115.—232,	Wallgate	"	172.—	Woodcock Street	"
116.—10,	Ratcliffe Street	"	173.—6,	Woodcock Street	"
117.—45,	Scholes	"	174.—163,	Scholes	"
118.—71,	Scholes	"	175.—56,	Scholes	"
119.—47,	Scholes	"	176.—74,	Scholes	"
120.—178,	Woodhouse Lane	"	177.—164,	Scholes	"
121.—322,	Woodhouse Lane	"	178.—154,	Scholes	"
122.—40,	Poolstock Lane	"	179.—56,	Market Hall	"
123.—84,	Enfield Street (P.)	"	180.—	Market Hall	"
124.—6,	Kenyon Road	"	181.—58,	Market Hall	"
125.—20,	Victoria Avenue	"	182.—8,	Makinson Arcade	"
126.—91,	Ormskirk Road	"	183.—15,	Makinson Arcade	"
127.—294,	Ormskirk Road (P.)	"	184.—4,	Fleet Street (P.)	"
128.—835,	Ormskirk Road (P.)	"	185.—739,	Ormskirk Road (P.)	"
129.—710,	Ormskirk Road (P.)	"	186.—587,	Ormskirk Road (P.)	"
130.—646,	Ormskirk Road (P.)	"	187.—127,	Ormskirk Road (P.)	"
131.—695,	Ormskirk Road (P.)	"	188.—745,	Ormskirk Road (P.)	"
132.—305,	Ormskirk Road (P.)	"	189.—405,	Warrington Road (P.)	"
133.—11,	Duke Street (P.)	"	190.—	Millgate	Clothing.
134.—13,	Duke Street (P.)	"	191.—37,	Market Street	"
135.—289,	Warrington Road (P.)	"	192.—7,	Millgate	"
136.—	Warrington Road (P.)	"	193.—16,	Greenough Street	"
137.—303,	Warrington Road (P.)	"	194.—20,	Greenough Street	"
138.—590,	Warrington Road (P.)	"	195.—72,	Darlington Street	"
139.—34,	Poolstock	"	196.—124,	Wallgate	"
140.—15,	Poolstock	"	197.—	Wallgate	"
141.—1,	Lower St. Stephen Street	"	198.—91,	Wallgate	"
142.—142,	Park Road	"	199.—	Barrack's Yard	"
143.—86,	Park Road	"	200.—	Rowbottom Square	"
144.—84,	Park Road	"	201.—70,	Scholes	"
145.—36,	Park Road	"	202.—90,	Scholes	"
146.—6,	Standishgate	Milliner.	203.—108,	Scholes	"
147.—	Standishgate	"	204.—	Market Arcade	"
148.—50,	Standishgate	"	205.—6,	Makinson Arcade	"
149.—7,	Standishgate	"	206.—24,	Woodhouse Lane	"
150.—35,	Standishgate	"	207.—15,	Fleet Street (P.)	"
151.—44,	Standishgate	"	208.—9,	Woods Grove	"
152.—1,	Church Street	"	209.—31,	Brackley Street (P.)	"
153.—38,	Wigan Lane	"	210.—76,	Ormskirk Road (P.)	"
154.—46,	Wigan Lane	"	211.—33,	Standishgate	Boot Repairs.
155.—21,	Mesnes Street	"	212.—	Powell Street	"
156.—35,	Mesnes Street	"	213.—45,	Wigan Lane	"
157.—67,	Mesnes Street	"	214.—79,	Wigan Lane	"
158.—6,	Library Street	"	215.—73,	Wigan Lane	"
159.—9,	Library Street	"	216.—17,	Mesnes Street	"
160.—23,	Market Place	"	217.—4,	Orchard Street	"
161.—48,	Market Place	"	218.—2,	King Street	"
162.—38,	Market Place	"	219.—19,	Market Place	"
163.—16,	Schofield Lane	"	220.—34,	Market Place	"
164.—8,	Schofield Lane	"	221.—76,	Hallgate	"
165.—21,	Frog Lane	"	222.—62,	Market Street	"
166.—4,	Darlington Street	"	223.—52,	Millgate	"
167.—24,	Darlington Street	"	224.—22,	Millgate	"
168.—61,	Darlington Street	"	225.—37,	Chapel Lane	"
169.—70,	Wallgate	"	226.—72,	Corporation Street	"

## WORKSHOPS UNDER THE FACTORY AND WORKSHOP ACT.—Continued.

No.	Address.	Trade.	No.	Address.	Trade.
227.—66,	Pool Street	Boot Repairs	283.—74,	Lime Street	Clogger
228.—86,	Pool Street	"	284.—146,	Wallgate	"
229.—138,	Gidlow Lane	"	285.—154,	Wallgate	"
230.—178,	Gidlow Lane	"	286.—174,	Wallgate	"
231.—111,	Gidlow Lane	"	287.—83,	Scholes	"
232.—87,	Schofield Lane	"	288.—103,	Scholes	"
233.—39,	Greenough Street	"	289.—149,	Scholes	"
234.—8,	Greenough Street	"	290.—233,	Scholes	"
235.—11,	Greenough Street	"	291.—50,	Scholes	"
236.—46,	Springfield Road	"	292.—160,	Scholes	"
237.—61,	Darlington Street East	"	293.—118,	Scholes	"
238.—116,	Darlington Street East	"	294.—84,	Scholes	"
239.—11,	Frog Lane	"	295.—33,	Scholes	"
240.—39,	Darlington Street	"	296.—245,	Scholes	"
241.—136,	Wallgate	"	297.—208,	Woodhouse Lane	"
242.—12,	Wallgate	"	298.—224,	Woodhouse Lane	"
243.—175,	Scholes	"	299.—	Martland Mill	"
244.—10,	Scholes	"	300.—105,	Poolstock Lane (P.)	"
245.—47,	Woodhouse Lane	"	301.—281,	Billinge Road (P.)	"
246.—127,	Woodhouse Lane	"	302.—3,	Enfield Street (P.)	"
247.—113,	Woodhouse Lane	"	303.—175,	Enfield Street (P.)	"
248.—17,	Poolstock Lane	"	304.—37,	Brackley Street (P.)	"
249.—1,	Kendal Street	"	305.—92,	Ormskirk Road (P.)	"
250.—1,	Chapel Street (P.)	"	306.—831,	Ormskirk Road (P.)	"
251.—1,	Bridgewater Street (P.)	"	307.—411,	Ormskirk Road (P.)	"
252.—819,	Ormskirk Road (P.)	"	308.—425,	Warrington Road (P.)	"
253.—809,	Ormskirk Road (P.)	"	309.—12,	Warrington Road (P.)	"
254.—814,	Ormskirk Road (P.)	"	310.—57,	Park Road	"
255.—69,	Ormskirk Road (P.)	"	311.—102,	Wigan Lane	Saddler.
256.—131,	Ormskirk Road (P.)	"	312.—8,	Mesnes Street	"
257.—152,	Ormskirk Road (P.)	"	313.—5,	Dorning Street	"
258.—397,	Ormskirk Road (P.)	"	314.—17,	Millgate	"
259.—735,	Ormskirk Road (P.)	"	315.—90,	Darlington Street	"
260.—240,	Warrington Road (P.)	"	316.—53,	Wallgate	"
261.—	Norfolk Street (P.)	"	317.—2,	Ormskirk Road (P.)	"
262.—161,	Park Road	"	318.—	Powell Street	"
263.—74,	Millgate	Clogger.	319.—38,	Standishgate	Jeweller.
264.—134,	Chapel Lane	"	320.—46,	Market Place	"
265.—110,	Chapel Lane	"	321.—25,	Market Street	"
266.—42,	Corporation Street	"	322.—92,	Millgate	"
267.—72,	Byrom Street	"	323.—95,	Greenough Street	"
268.—74,	School Street	"	324.—18,	Wallgate	"
269.—72,	Schofield Lane	"	325.—76,	Scholes	"
270.—53,	Miry Lane	"	326.—53,	Scholes	"
271.—33,	Platt Lane	"	327.—27,	Makinson Arcade	"
272.—	Lord Street	"	328.—115,	Caroline Street	"
273.—9,	Wiend	"	329.—	Darlington Street East	"
274.—	Wiend	"	330.—22,	Standishgate	Plumber.
275.—31,	Whelley	"	331.—85,	Standishgate	"
276.—60,	Whelley	"	332.—102,	Standishgate	"
277.—69,	Whelley	"	333.—	Coppull Lane	"
278.—2,	Cambridge Street	"	334.—	Crompton Street	"
279.—72,	Frog Lane	"	335.—55,	Millgate	"
280.—138,	Frog Lane	"	336.—	Millgate	"
281.—31,	Birkett Bank	"	337.—43,	Greenough Street	"
282.—53,	Queen Street	"	338.—85,	Greenough Street	"
			339.—	Barnsley Street	"

## WORKSHOPS UNDER THE FACTORY AND WORKSHOP ACT.—Continued.

No.	Address.	Trade.	No.	Address.	Trade.
340.—	Rodney Street	Plumber.	396.—	26, Poolstock	Knitting.
341.—	278, Wallgate	..	397.—	39, Library Street	Picture Frame.
342.—	Clarence Yard	..	398.—	29, Millgate	..
343.—	166, Ormskirk Road (P.)	..	399.—	34, Darlington Street	..
344.—	52, Poolstock	..	400.—	121, Ormskirk Road (P.)	..
345.—	Royal Oak Yard	Painters.	401.—	825, Ormskirk Road (P.)	..
346.—	113, Standishgate	..	402.—	28, King Street	Cycle Repairs.
347.—	63, Wigan Lane	..	403.—	72, Market Street	..
348.—	10, Clifton Street	..	404.—	94a, Greenough Street	..
349.—	Commercial Yard	..	405.—	9, Greenough Street	..
350.—	85, Greenough Street	..	406.—	Wallgate	..
351.—	Barrack's Yard	..	407.—	25, Ormskirk Road (P.)	..
352.—	176, Scholes	..	408.—	Station Road	..
353.—	15, Powell Street	..	409.—	6, Crompton Street	Carver.
354.—	15a, School Lane	..	410.—	Crofters' Arms Yard	Cooper.
355.—	57, Caroline Street	..	411.—	58, Millgate	..
356.—	37, Peet Street	..	412.—	Darlington Street East	Joiner.
357.—	Ashton's Yard	..	413.—	Kenyon Road	..
358.—	New Square	Shoeing Smith.	414.—	Union Bridge	..
359.—	Brick Kiln Lane	..	415.—	Station Road	..
360.—	Millgate	..	416.—	31, King Street	Bottling Stores.
361.—	90, Chapel Lane	..	417.—	King Street West	..
362.—	Henhurst Bridge	..	418.—	66, Millgate	Tin Plate Workers.
363.—	Platt Lane	..	419.—	Clayton Street	..
364.—	Coffee House	..	420.—	Pottery Road	..
365.—	266, Wallgate	General Smith.	421.—	182, Scholes	..
366.—	Rowbottom Square	..	422.—	68, Scholes	..
367.—	White Street (P.)	..	423.—	Millgate	Tripe Dresser
368.—	Stanley Street (P.)	..	424.—	Watmough's Yard	..
369.—	Henhurst Bridge	Wheelwright.	425.—	Watmough's Yard	Tallow Melter.
370.—	Miry Lane	..	426.—	Henhurst Bridge	Marine Stores.
371.—	Platt Lane	..	427.—	Faggy Lane	..
372.—	Darlington Street	..	428.—	Douglas Street	..
373.—	218, Wallgate	..	429.—	Princess Street	..
374.—	Hartley Street (P.)	..	430.—	Miry Lane	Coffin Maker.
375.—	Chapel Street (P.)	..	431.—	Powell Street	..
376.—	Smithy Brook (P.)	..	432.—	Douglas Street	Soap Boiler.
377.—	Powell Street	..	433.—	166, Wallgate	..
378.—	Orchard Street	..	434.—	Gower Street (P.)	..
379.—	76, Standishgate	Cabinet Makers.	435.—	Douglas Street (P.)	Preserve Works.
380.—	Crompton Street	..	436.—	Bradford Place	..
381.—	King Street West	..	437.—	Little Lane	Ginger Beer.
382.—	Soho Street (P.)	..	438.—	Douglas Street	..
383.—	Douglas Side	..	439.—	19, Bradshaw Street	Clay Pipes.
384.—	Douglas Side	..	440.—	23, Wiend	Brass Founder.
385.—	72, Standishgate	Ice Cream.	441.—	Great Acre	Hard Confectioner.
386.—	62, Greenough Street	..	442.—	44, Schofield Lane	..
387.—	63, Darlington Street East	..	443.—	Neville Street	Bedding.
388.—	17, Hope Street	Scales.	444.—	Wiend	Brush Maker.
389.—	Hope Street	..	445.—	19, Warrington Lane.	French Polisher
390.—	Station Road	..	446.—	Woodcock Street.	Paper Box Makers.
391.—	18, Wigan Lane	Laundry.	447.—	Jackson's Square	Chandler.
392.—	Mariebonne	..	448.—	122, Scholes	Sausage Maker.
393.—	Holme Terrace	..	449.—	23, Makinson Arcade	Umbrellas.
394.—	33, Mesnes Street	Knitting.	450.—	20, Makinson Arcade	Mantles.
395.—	292, Wallgate	..			

## BAKEHOUSES.

The bakehouses have been regularly visited, and when any nuisance has been discovered, notice has been served. The regulations as to limewashing, cleanliness, &c., have been enforced. The underground bakehouses have been kept in a sanitary condition.

The following is a list of Bakehouses.

No.	Address.	Trade.	No.	Address.	Trade.
1.—47a,	Scholes	Confectioner.	51.—811,	Ormskirk Road (P.)	Confectioner
2.—247,	Scholes	..	52.—318,	Ormskirk Road (P.)	..
3.—233,	Scholes	..	53.—213,	Warrington Road (P.)	..
4.—237,	Scholes	..	54.—310,	Warrington Road (P.)	..
5.—100,	Scholes	..	55.—419,	Warrington Road (P.)	..
6.—52,	Scholes	..	56.—447,	Warrington Road (P.)	..
7.—96,	Scholes	..	57.—700,	Warrington Road (P.)	..
8.—122,	Scholes	..	58.—80,	Elesmere Road (P.)	..
9.—9,	Chancery Street	..	59.—40,	Victoria Street (P.)	..
10.—16,	Portland Street	..	60.—47,	Billinge Road (P.)	..
11.—10a,	Hardybutts	..	61.—25,	Fleet Street (P.)	..
12.—18,	Harrogate Street	..	62.—39,	Fleet Street (P.)	..
13.—126,	Chapel Lane	..	63.—26,	Darlington Street	..
14.—87,	Park Road	..	64.—42,	Darlington Street	..
15.—104,	Park Road	..	65.—53,	Darlington Street	..
16.—38,	Vine Street	..	66.—77,	Darlington Street East	..
17.—59,	Wigan Lane	..	67.—162,	Darlington Street East	..
18.—86,	Wigan Lane	..	68.—32,	Wellington Street	..
19.—33,	Market Place	..	69.—2,	Kendal Street	..
20.—52,	Market Place	..	70.—19,	Poolstock Lane (P.)	..
21.—60,	Market Place	..	71.—111,	Poolstock Lane (P.)	..
22.—71,	Barnsley Street	..	72.—4,	Lorne Street	..
23.—54,	Wallgate	..	73.—46,	Dicconson Street	..
24.—216,	Wallgate	..	74.—25,	Greenough Street	..
25.—2,	Pottery Road	..	75.—81,	Greenough Street	..
26.—106,	Gidlow Lane	..	76.—217,	Scholes	Baker.
27.—142,	Gidlow Lane	..	77.—191,	Scholes	..
28.—175,	Gidlow Lane	..	78.—89,	Scholes	..
29.—19,	Mesnes Street	..	79.—239,	Scholes	..
30.—23,	Mesnes Street	..	80.—78,	Scholes	..
31.—47,	Mesnes Street	..	81.—261,	Scholes	..
32.—65,	Hodges Street	..	82.—3,	Vauxhall Road	..
33.—160,	Woodhouse Lane	..	83.—42,	Whelley	..
34.—217,	Woodhouse lane	..	84.—30,	Whelley	..
35.—132,	Woodhouse Lane	..	85.—Leigh	Street	..
36.—69,	Beech Hill Avenue	..	86.—Thompson	Street	..
37.—37,	Queen Street	..	87.—Appleton	Street	..
38.—2,	Warrington Lane	..	88.—142,	Hardybutts	..
39.—31,	Caroline Street	..	89.—Boundary	Street	..
40.—75,	Caroline Street	..	90.—118,	Schofield Lane	..
41.—38,	Market Street	..	91.—103,	Schofield Lane	..
42.—58,	Market Street	..	92.—61,	Schofield Lane	..
43.—66,	Market Street	..	93.—144,	Chapel Lane	..
44.—43,	Standishgate	..	94.—Wood	Street	..
45.—120,	Standishgate	..	95.—25,	Leader Street	..
46.—129,	Standishgate	..	96.—Andrew	Street	..
47.—131,	Ormskirk Road (P.)	..	97.—Orchard	Street	..
48.—805,	Ormskirk Road (P.)	..	98.—39,	Kirkless Street	..
49.—119,	Ormskirk Road (P.)	..	99.—89,	Wigan Lane	..
50.—669,	Ormskirk Road (P.)	..	100.—163,	Wigan Lane	..



BAKEHOUSES.—*Continued.*

No.	Address.	Trade.	No.	Address.	Trade.
101.—5,	Pitt Street	Baker	122.—6,	Warrington Road (P.)	Baker
102.—119,	Wallgate	..	123.—73,	Warrington Road (P.)	..
103.—248,	Wallgate	..	124.—19,	Fleet Street (P.)	..
104.—	Millgate	..	125.—14,	Chapel Street (P.)	..
105.—68,	Frog Lane	..	126.—26,	Chapel Street (P.)	..
106.—108,	Frog Lane	..	127.—72,	Pool Street	..
107.—136,	Frog Lane	..	128.—84,	Pool Street	..
108.—160,	Frog Lane	..	129.—66,	Corporation Street	..
109.—45,	Queen Street	..	130.—3,	Kendal Street	..
110.—54,	Caroline Street	..	131.—48,	Northumberland Street	..
111.—59,	Caroline Street	..	132.—43a,	City Road (P.)	..
112.—61,	Standishgate	..	133.—47,	City Road (P.)	..
113.—18,	Catherine Street	..	134.—349,	Scot Lane (P.)	..
114.—767,	Ormskirk Road (P.)	..	135.—	New Market Street	..
115.—78,	Ormskirk Road (P.)	..	136.—	Kenyon Road	..
116.—752,	Ormskirk Road (P.)	..	137.—46,	Greenough Street	..
117.—215,	Ormskirk Road (P.)	..	138.—62,	Greenough Street	..
118.—400,	Ormskirk Road (P.)	..	139.—	Dorning Street	..
119.—763,	Ormskirk Road (P.)	..	140.—26,	Florence Street	..
120.—83,	Ormskirk Road (P.)	..	141.—	Spring Gardens	..
121.—9,	Enfield Street (P.)	..			

## LIST OF UNDERGROUND BAKEHOUSES.

22, Earl Street.  
 36, Wigan Lane.  
 34, Wigan Lane.  
 108, Wallgate.  
 12, Wallgate.

32, Market Street.  
 58, Market Street.  
 10, Standishgate.  
 Woodcock Street (not being used).

**SHOP HOURS ACT, 1892-1904.**

During the past year 154 visits were made to shops during the day. At 10 no young persons were employed, and 5 were domestic; at 7 shops, young persons were employed contrary to the Act, 1895, the abstract not being exhibited.

The abstracts were obtained after the proprietor's attention had been called to the offence.

One proprietor was cautioned for employing a young person for more hours than the Act allows.

Act, 1899.—Seats for Shop Assistants.—At shops visited the Act was being carried out.

Observations at night were frequently taken to ascertain if the hours were being exceeded. One proprietor was cautioned under Section (1) of the Act, 1892.

**SHOP HOURS ACT, 1904.—CLOSING ORDER.****HAIRDRESSERS' AND BARBERS' SHOPS.**

The above Closing Order has received much attention during the year, 407 visits were made during the day, and 458 at night.

Complaints have been received of several shops being kept open after closing time, and many hours were spent in taking observations of the shops complained of.

During the year 4 letters were sent out warning the proprietors for offences under this order.

Signed,

F. G. BISHOP,

Inspector.

## MEAT INSPECTION AND SLAUGHTER-HOUSES.

The Slaughter-houses have been regularly visited by the Inspectors, and I have myself paid many visits and surprise visits.

The butchers send frequently to have tuberculosed beasts examined and when condemned readily surrender the meat.

The Magistrates here are not yet alive to the seriousness of selling tuberculosed meat, for in a case where the Inspector seized a fore-quarter of a cow, on the costal pleura of which, was, a piece of tubercle larger than a five-shilling-piece (this fore-quarter being exposed for sale in a shop), they inflicted no fine, but let him off on payment of costs.

The sanitary condition of the various Slaughter-houses is not good, in most cases bad, and are a long way off complying with the requirements of the Local Government Board. Nothing short of a Public Abattoir can give us a place fit for killing meat for human consumption.

No inspections of live cattle have been done during the year, but when possible in the future this shall be done.

**DAIRIES, COWSHEDS, AND MILKSHOPS ORDER,  
1885 AND 1886.**

I subjoin Mr. Woods', Veterinary Inspector's, report for 1908.

Gentlemen,

I commence my Annual Report under the Dairies, Cowsheds, and Milkshops Order by giving a synopsis of the work.

There are 44 Cowsheds within the Borough containing about 460 Milch Cows, an average of just over 10 Cows per cowshed, the greatest number on one premises is 68, and the least 2, and to these in the course of the year 165 official visits have been paid, and the udders of the cattle carefully examined.

Several of the old buildings formerly used as Cowsheds, but condemned under the present law are either empty or used for other purposes, and one (Markland Mill Farm) has had extensive alterations with the view of cattle being again kept therein.

Four cases of Tuberculosis of the Udder were detected and satisfactorily dealt with. Of three other suspicious cases, but which I was unable to certify, only one proved on bacteriological examination to contain acid fast bacilli, which one inoculation proved to be tubercle, while the second though condemned as unfit for drinking purposes turned out to be not tuberculosis.

No visits have been paid on behalf of the Corporation to cattle outside the Borough, and indeed there is no power to make such visits except for discovered tuberculosis in milk sold within the area, and this can only be made by the somewhat expensive process of samples being taken and bacteriologically examined.

Generally speaking, the Milk produced within the Borough is dealt with in a cleanly fashion, before it is distributed, although it might be improved by substituting taps in the Milk kits (which is insisted upon by some Authorities) in place of removing the top every time the Milk is measured.

I am aware that I am considered over-fastidious on this point, and I recognise that an over-fastidious person is often a misery to himself, and a nuisance to his friends, but there must be great opportunity on a wet day of the dirty water from a dripping coat sleeve dropping into the Milk during the measuring.

It is astonishing to notice how little care is taken to keep milk clean after its distribution. In numerous cases and not in cottages only it is left uncovered in open vessels even during dusting or cleaning operations in the room.

Great attention is now directed by the Medical Profession to the dangers of contamination by the Common House Fly; there is no filth on which the fly will not settle, and it does not require a powerful imagination to understand the ease with which some of this material can be carried on its feet into a bowl of milk and the material may be not only dirt but disease.

It is to be sincerely hoped that the new Orders said to be in preparation by the Local Government Board will make the Dairies and Cowsheds Order compulsory over the whole Country, for at present it works very unequally.

It is also to be hoped that the Clauses dealing with Udder tuberculosis will be strengthened. At present one is almost dependent upon the goodwill and straightforwardness of the cowkeeper, and there is no power to prevent him selling such a cow to another cow-keeper, and there is no power to compel him to state what has become of her so long as she disappears from his Cowshed or is isolated.

Yours obediently,

WILLIAM WOODS.

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### WATER SUPPLY.

The water supply has been continuous and of good quality; there has been no necessity to have a curtailment or intermittent supply, which is always dangerous.

The following are summaries of the reports on the analysis of the water made by the Public Analyst :—

*January.*—Hardness before boiling, 7.5 degrees ; after, 5.0 degrees. This sample is up to the usual standard of purity. (Wigan).

*February.*—Hardness before boiling, 13.0 degrees ; after, 2.0 degrees. Satisfactory in regard to organic purity, but a very hard water, most of the hardness being of a temporary character. (Pemberton).

*March.*—Hardness before boiling, 10.0 degrees ; after, 6.5 degrees. The water this month is of a harder character than usual, and the degree of organic purity, though quite satisfactory, is not so high. (Wigan).

*April.*—Hardness before boiling, 9.5 degrees ; after, 6.5 degrees. The albuminoid ammonia figure is rather higher than usual this month, and there are heavy traces of free ammonia. Still, the water is quite satisfactory all round. (Wigan).

*May.*—Hardness before boiling, 9.5 degrees ; after, 6.5 degrees. There is a distinct improvement this month, and the water is of a very satisfactory degree of organic purity. (Wigan).

*June.*—Hardness before boiling, 5.5 degrees ; after, 4.0 degrees. This is a satisfactory sample in regard to organic purity, and is “softer” than usual. (Wigan).

*July.*—Hardness before boiling, 4.7 degrees ; after, 3.3 degrees. This sample is up to the usual standard of purity, and rather “softer” than usual. (Wigan).

*August.*—Hardness before boiling, 9.5 degrees ; after, 6.0 degrees. This water is about equal to an average sample in regard to total and permanent hardness, and is altogether of excellent quality. (Wigan).

*September.*—Hardness before boiling, 9.0 degrees ; after, 6.0 degrees. The albuminoid ammonia is rather higher than usual, but all other figures are consistent with purity of supply. Total hardness is about the average. (Wigan).

*October.*—Hardness before boiling, 9.0 degrees ; after, 5.5 degrees. The supply is distinctly better this month, and very good all round. (Wigan).

*November.*—Hardness before boiling, 11.5 degrees ; after 2.0 degrees. From an organic standpoint this water is satisfactory in every respect. It is rather harder than the water in the centre of the town, most of the hardness being of a “temporary” nature. (Pemberton).

*December.*—Hardness before boiling 18.50 degrees ; after, 10.5 degrees. Organically, this is a satisfactory sample. The hardness, both before and after boiling is very much greater than obtains in the usual town’s supply. (Pemberton).

## RAINFALL, 1908.

AT WORTHINGTON.

Month.	Rainfall in Inches and Tenths.	No. of days on which rain fell, being .01 of an inch or more.
January .. .. .	2.69	16
February .. .. .	2.93	24
March .. .. .	3.04	21
April .. .. .	2.60	19
May .. .. .	3.13	22
June .. .. .	2.07	12
July .. .. .	4.56	17
August .. .. .	3.30	19
September .. .. .	4.41	18
October .. .. .	2.22	10
November .. .. .	2.62	16
December .. .. .	2.61	24
	36.18	218

The mean average rainfall for the past 51 years, 37.25 inches.

## RAINFALL, 1908.

AT BISPHAM.

Month.	Rainfall in Inches and Tenths.	No. of days on which rain fell, being .01 of an inch or more.
January .. .. .	2.33	14
February .. .. .	3.17	22
March .. .. .	2.87	17
April .. .. .	2.73	16
May .. .. .	2.79	21
June .. .. .	1.93	16
July .. .. .	4.31	19
August .. .. .	3.61	17
September .. .. .	4.63	17
October .. .. .	2.57	11
November .. .. .	3.30	15
December .. .. .	2.57	21
	36.81	200

Average consumption per head per day (estimated population, 24,304),  
was 11.13 gallons.

## BLACK SMOKE NUISANCE.

Many observations have been taken of the nuisance arising from Black Smoke, and many cautions have been given, but no prosecutions have been taken.

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## PROPERTY UNFIT FOR HUMAN HABITATION.

The following houses were scheduled under the Housing of the Working Classes Act, 1890, and were dealt with by the Committee :—

- 1, 2, 3, 4, 5, 6, 7, Dawber's Court, Standishgate.
- 123, 125, Standishgate.
- 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, Penson's Yard, Standishgate.
- 1, 2, 3, 4, 5, 6, 7, Jackson's Row, Wigan Lane.
- 7, 8, 9, 10, 11, 12, Ashton's Yard, Duke Street.
- 1, 2, 3, 4, 8, 9, 10, 11, Wood's Yard, Duke Street.
- 1, 2, 3, 4, 5, 6, 7, 8, Ashton's Yard, Princess Street.
- 72, 74, 76, 78, 80, 82, 84, 86, 88, Gidlow Lane.
- 3, 4, 5, 6, 7, Grundy's Yard, Hardybutts.
- 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, Scholefield Lane.
- 1, 2, 3, 4, 5, 6, Heaton's Yard, Scholefield Lane.
- 1, 2, 3, 4, 5, Orrell's Yard, Arthur Street, Goose Green.
- 1, 2, Waddington's Yard, Great George Street.
- 1, Wood's Yard, Great George Street.
- 36, 37, 38, 39, 40, 41, 42, 43, Bottling Wood.



The following is a list of unpaved Yards and Passages that have been dealt with during 1908:—

1-31, Hopwood Street, Pemberton.

The following have also been dealt for Defective Surface of Yards, etc.

107 to 117, Scholefield Lane.	70, School Street.
Back 53, Miry Lane.	37-41, York Street.
16, 18, 20, Peet Street.	57 <sup>2</sup> , Warrington Road (P.)
26, 28, 30, Peet Street.	15, Park View.
6, Kay Street.	108, Warrington Road (P.)
4, 6, 8, Every Street.	1, Thompson Street (P.)
44, Stanley Street.	156, 158, Darlington Street East.
36, 38, 40, 42, 44, Platt Lane.	22, Sovereign Road.
41, Princess Street	11, Silver Street.
2, 4, 6, 8, 10, 12, Northumberland St.	2, Penson Street.
2, 4, 12, 14, 16, Seed Street	15, Rupert Street.
6, 8, 10, Seed Street.	13, Field Street.
1, 3, 5, 7, 9, 11, 13, 15, Seed Street.	38, Ormskirk Road (P.)
18, Earl Street.	686, Warrington Road (P.)
2, 4, 6, 8, 10, 12, Silver Street.	1, 3, 4, Henry Street.
10, Caunce Street.	417, 419, 421, Warrington Road (P.)
20-32, Oxford Street.	3, 4, 5, Stanley Square, Platt Lane.
Adjoining 79, Silver Street.	60, Enfield Street (P.)
36 and 38, Boyswell Lane.	14, Yates Street.

## BOROUGH SURVEYOR'S DEPARTMENT.

The Borough Surveyor has kindly supplied me with the following particulars:—

	T.	C.	Q.
House refuse collected in Borough from January 1st to December 31st, 1908 .. .. .	18,007	0	2
Pail excreta removed in 1908 .. .. .	6,921	17	2
Nightsoil removed in 1908 .. .. .	314	7	0
Number of Pail Closets in Borough ..	8,056		
Number of pails collected in 1908 ..	447,986		
Cost (including washing and distribution) .. .. .	£2,235	9	11½
Cost of collecting ashes during 1908 .. .. .	£2,229	2	5½
Number of privy middens in Borough ..	1,742		
“ “ emptied, 1908 ..	14,734		
“ new houses erected in 1908 ..	138		
“ water closets in Borough ..	5,123		

## SCAVENGING.

This department is under the control of the Sanitary Works Committee, and the disposal of sewage is in charge of the Sewage Farm Committee, the Medical Officer of Health being requested to attend when required.

## MIDWIVES ACT, 1902.

We have now 54 women on the Midwives Register for the Borough. This year many have been visited at their own houses by Dr. J. Foreman Berry, M.B. and Ch.B., St. And., L.R.C.P. and S., Ed., &c. He has presented a report to me in each case, and, where necessary, letters have been written to those who have not conformed to the Regulations of the Midwives Board. During the year there were 12 cases of Puerperal Fever notified and 8 deaths, against 8 cases and 5 deaths in 1907. There were 9 cases in which a Midwife had been in attendance; in each case she was suspended from carrying out her midwifery duties.

Many midwives have been summoned before me for negligence in carrying out the rules of the Midwives Board. One midwife has been reported to the Central Midwives Board for breach of rules and admonished, also given 3 months' probation.

During the year I have had the following reports sent in :—

42 Records of sending for Medical Help.  
4 Notification of Death of Child.  
26 Notification of Still-Births.

against in 1907 :

16 Records of sending for Medical Help.  
2 Notification of Death of Child.  
18 Notification of Still-Births.

against in 1906 :

13 Records of sending for Medical Help.  
4 Notification of Death of Child.  
15 Notification of Still-Births.

and in 1905 :

9 Records of sending for Medical Help.  
5 Notification of Still-Births.

## COUNTY BOROUGH OF WIGAN.

Midwives on Register, year ending 31st December, 1908.

Name.	Registered No.
Atherton, Ann	4,607
Appleton, Mary A.	890
Ashton, Ellen	3,740
Archer, Annie M.	4,143
Alcock, Florence A.	17,693
Blatherwick, Jane	3,878
Barlow, Annie	12,602
Baxter, Mary E.	661
Banks, Jane	891
Bentham, Elizabeth	6,722
Bentham, Ellen	19,486
Bolton, Elizabeth	26,027
Booth, Maria	3,263
Cox, Jane	933
Cowley, Elizabeth	3,780
Cunliffe, Mary	19,073
Daniels, Ellen	9,585
Davies, Mary A.	4,341
Dutton, Harriet	10,507
Finch, Eliza	3,760
Finch, Alice	4,360
Fraser, Susannah	26,727
Grundy, Maria	3,643
Groncott, Harriet	5,241
Green, Sarah	13,239
Hall, Ann J.	10,630
Holland, Ellen	2,531
Halliwell, Ann H.	4,121
Humphries, Margaret	4,479
Holland, Elizabeth	3,784
Hoy, Louisa	19,889
Kynaston, Jane E.	9,942
Lyon, Sarah	596
Langshaw, Ann	3,621
Layland, Alice	5,276
McAllister, Isabel	23,614
McQuillan, Sarah	2,676
McCann, Margaret	2,532
Melling, S. A.	25,128
Moss, Elizabeth	15,722
Patrick, Ann	6,335
Perkins, Margaret A.	4,145
Pilkington, Hannah	11,088
Priest, Catherine	17,057
Perry, Nancy	17,052
Taylor, Ann	3,331
Thorpe, Millicent	4,146
Wilson, Dorothy	558
Wallwork, Mary	659
Worthington, Elizabeth	4,367
Welsh, Alice	4,346
<i>Residing outside, but practising in Wigan :—</i>	
Name.	Registered No.
Davies, Mary A.	2,780
Hill, Alice	3,766
Ellison, Mrs.	3,196

## NOTIFICATION OF BIRTHS ACT, 1907.

This Act has not yet been adopted, but probably will be during the coming year.

I subjoin table on Infantile Mortality :—

### INFANTILE DEATH RATES, 1908.

Month.	Deaths, all Causes.	Births.	Rate per 1,000 Births.	Diarrhoea Deaths.	Rate per 1,000 Births.
January .. ..	27	226	119	1	4
February .. ..	44	274	160	—	—
March .. ..	25	254	98	—	—
April .. ..	22	240	91	—	—
May .. ..	25	286	87	1	3
June .. ..	32	252	126	—	—
July .. ..	25	236	105	7	29
August .. ..	88	276	318	37	134
September .. ..	41	219	187	12	54
October .. ..	38	280	135	5	17
November .. ..	47	205	229	3	14
December .. ..	39	186	209	—	—
	453	2,934	154	66	22

Rate per 1,000 Births for 12 months, 154.

Average for the last 10 years (1898-1907), 176.

## EDUCATION ACT, 1902 & 1904.

The Education Committee during the past year have appointed a School Medical Officer, this officer being the Medical Officer of Health, an Assistant School Medical Officer, and a School Nurse.

The work to commence, so far as the school inspection of children was concerned, in January, 1909.

Schools have been closed for Measles as in previous years. No school closure taking place for any other infectious disease.

The Water Supply to the Elementary Schools has been ample and of good quality.

NOTIFICATION OF BIRTHS ACT 1907

The Act of 1907 which provides for the registration of births and deaths in England and Wales and the City of London.

No.	Name	Sex	Date of Birth	Place of Birth	Age of Mother	Signature of Registrar
1	John	M	1907	London	25	[Signature]
2	Mary	F	1907	London	25	[Signature]
3	James	M	1907	London	25	[Signature]
4	Elizabeth	F	1907	London	25	[Signature]
5	William	M	1907	London	25	[Signature]
6	Ann	F	1907	London	25	[Signature]
7	Thomas	M	1907	London	25	[Signature]
8	Charlotte	F	1907	London	25	[Signature]
9	Richard	M	1907	London	25	[Signature]
10	Jane	F	1907	London	25	[Signature]

EXPLANATION ACT 1902 & 1904

The Act of 1902 and the Act of 1904 provide for the registration of births and deaths in England and Wales and the City of London. The Act of 1902 provides for the registration of births and deaths in England and Wales and the City of London. The Act of 1904 provides for the registration of births and deaths in England and Wales and the City of London.

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National Conference

ON

INFANTILE MORTALITY,

**1908,**

HELD IN THE

Gayton Halls, Victoria Street, Westminster,

LONDON, S.W.,

ON THE

24TH AND 25TH MARCH, 1908.

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DELEGATE'S REPORT.

Health Office,

Wigan,

16th April, 1908.

*To the Chairman and Members of the Health Committee.*

Gentlemen,

Herewith I submit you a Report on my attendance as your Representative at the National Conference on Infantile Mortality, held in London, on the 24th and 25th March last.

Thanking you for the privilege of being present,

I remain,

Your obedient Servant,

**WM. BERRY,**

Medical Officer of Health.

## DELEGATE'S REPORT.

The National Conference on Infantile Mortality was held in London, and was opened by the Right Hon. John Burns, M.P., on the 23rd of March, and continued on the 24th and 25th.

Mr. Alderman Broadbent was the Chairman on the 23rd, and the Hon. John Burns, M.P., President of the Local Government Board, gave a lengthy address. He congratulated the meeting on the results of the first Conference, held in December, 1906, results which had exceeded his most sanguine expectations.

He said it had stimulated authorities all over the country. Government Departments had responded, and Parliament itself had not turned a deaf ear.

The adoption of the Notification of Births Act by thirty-two County Boroughs, fourteen other Boroughs, fourteen Urban District Councils, and twelve metropolitan Borough Councils had already been approved by the Local Government Board, many other applications were awaiting its approval, and other authorities seeking advice.

He said there was much difference of opinion in regard to milk for the child, but in his judgment a mother should not sublet her maternity, she should not sub-contract, the source of the infants' life to any bottle or any artificial food.

In regard to Infantile Mortality the comparison between this and other countries is favourable, and gave no rise for discouragement, yet there was ample room for improvement.

He mentioned also that anti-natal conditions should receive careful attention, although they were less adverse than formerly supposed, and 80 to 90 per cent. of babies born were healthy; but as town life increased, no effort should be spared to make the lot of the mother well fitted for the children that were or were to be.

He had a strong opinion in regard to mothers working, and held that for a period before the birth of the child, and for six months after its birth, the mother should not be at work, and that her home work should be light and suitable for her strength, and she should, of course, suckle her child.

If, however, the child must be reared artificially, then cow's milk from cows suitably fed should be obtained; this was the best substitute; the cows being kept clean and free from disease.

The milk should be obtained from clean dairies, milked by clean hands, put into clean vessels, stored in clean places, and conveyed to the baby's mouth in vessels which should not be the microbe traps too often now used.

He sincerely trusted that the Milk Bill and the Housing Bill would be passed this session.

He said, in conclusion, that intelligence should be aroused in the husband as well as in the mothers, and temperance, if not total abstinence, should be inculcated.



On TUESDAY, 24TH MARCH.

The Chair was taken by His Worship the Mayor of Westminster.

The Subjects discussed were :—

(1) THE HUMAN MOTHER, introduced by C. W. SALEEBY, M.D.

He stated that "we are dealing as moral beings with a phenomenon of which Nature is horribly and almost incredibly prodigal. Its causes in our case, however, are wholly distinct from the sub-human early mortality. This is due to lack of nutriment or to destruction by other species for purposes of food."

He said that the unique helplessness of the human infant demands a correlatively unique development of motherhood in woman, and it involves the proposition that the post-natal aspect of human motherhood is of unique importance in our case.

Concluding, he quoted the lines from Coleridge :—

"A mother is a mother still.  
The holiest thing alive."

(2) THE EDUCATION OF GIRLS AND WOMEN IN THE FUNCTION AND DUTIES OF WOMANHOOD. By Miss ALICE RAVENHILL.

She pointed out that no provision was made for the education of women in household duties, or of the rearing of babies. She also pointed out what might be done by way of education of older girls in secondary schools.

(3) EDUCATION FOR MOTHERHOOD AND INSTRUCTION FOR MOTHERS. By Alderman BENJAMIN BROADBENT, sometime Mayor of Huddersfield.

He stated that it is self-evident that the main functions of all women is to become mothers, and it is just as self-evident that for the proper fulfilment of this function there needs a vast amount of knowledge, and this should demand careful training and preparation.

He referred to the education of the actual mother of to-day. He said we have left those mothers ignorant when we might easily have taught them, and there is an enormous deficit to make up until we get the wiser methods of training girls.

As many of the mothers cannot leave their homes to be taught, he said we must go to them. We must carry instructions into her own home, and this should be our deliberate intention.

He detailed what is done in Huddersfield.

Take the town of Huddersfield, with its 100,000 inhabitants, and its 2,200 or 2,300 babies per annum. Every birth comes to the knowledge of the Medical Officer of Health ; 95 per cent. are notified within forty-eight hours of occurrence. Within the next two or three days a visit to the home is paid by a fully qualified medical woman, if no medical man is in attendance. If her visit is acceptable, the lady doctor will give such advice

and instruction as may be possible. Where a relative or friend is in attendance the advice and instruction is generally accepted gladly, and where a midwife has had sole charge she is usually pleased to have the professional confirmation of her work. But it is one of the cardinal principles of this work that for the official Lady Assistant Medical Officers of Health there is no right of entry, and it is understood that no threshold must be passed without leave asked and given. By that visit begins the instruction of the mother, and there is left printed matter as simple and direct and forcible as we have known how to make it; and by this there is afforded the means of further instruction. If the case is ordinary, the lady doctor's visit is not repeated, but wherever it is thought suitable, further visits are paid by voluntary workers, who, to the best of their ability, follow up the instruction already given, and in any case the visitor keeps in sympathetic touch with the mother, and helps her at least to believe in her motherhood. Thus we aim at, and to a very great extent we actually achieve our aim; that is, we bring within the reach of every mother means of instruction as to the best way to preserve the life and health of her child.

He also said all this work should be done under the Health Authority of the town.

He concluded by a short account of the Huddersfield scheme of work against Infant Mortality.

He pointed out the result of the work in Huddersfield in 1907.

#### RESULT OF WORK, 1907.

During 1907, 21,189 births occurred in the Borough, and 212 infants less than 12 months old died, giving an infant mortality figure of 97.

The records of the Department extend back for 31 years, and how very successful the work has been will be perceived from a reference to the accompanying diagram, which shows that present figure is the lowest on record, for the first time it has fallen below 100. The mean for the ten preceding years, 1897 to 1906 inclusive, was 135, thus there has been effected a reduction of 28 %. The mean for the three years, 1905 to 1907, during which the work has been in progress, is 117, and the ten preceding this, 1895 to 1904 inclusive, was 142.

#### HUDDERSFIELD INFANT MORTALITY.

	Births Registered.	Deaths. Under 1 Yr. of Age.	Infant Mortality. Figure.	Reduction.
1907 .. .. .	21,189	212	97	28 %
Preceding 10 years, 1897- 1906 .. .. .	22,991	3,104	135	
The 3 Years during which Special Work against In- fant Mortality has been in Progress, 1905-07 .. .. .	6,746	792	117	18 %
Preceding 10 Years, 1895- 1904 .. .. .	22,661	3,215 ]	142	

Huddersfield is an industrial centre with not less than 25 % of the female population at child-bearing ages working in textile factories. It is, therefore, the more surprising to find the infant mortality figure reduced to a rate comparable to that of the healthiest counties and rural districts.

Miss ZANETTI read a paper on "THE NEED FOR FURTHER EXTENSION OF THE POWERS OF BOARDS OF GUARDIANS IN RELATION TO INFANTS," and this paper was well discussed. She dealt largely with the boarding-out of children which takes place to a great extent in manufacturing towns where the mothers go to work. Such a custom used to prevail in Wigan some years ago, but, as far as I know, there is very little of it now.

Miss ZANETTI would have every child visited where it was taken in to be nursed for gain. At present, under the 1897 Infant Life Protection Act, a person must have the care of two or more children before they can be put on the register.

(5) Two papers were read on "THE BEST MEANS OF HELPING THE MOTHER BELOW THE POVERTY LINE":—

- 1st, by Miss MARGUERITE LE F. BOILEAU, M.A., and  
2nd, by Mon. HENRI GOULLET,

The pith of these papers was that the pregnant woman should be fed during her pregnancy by establishing restaurants for the purpose, as Miss Boileau said the three essential requirements of a pregnant or a nursing woman were:—

- (1) Adequate nourishment.
- (2) Freedom from overwork.
- (3) Skilled attention.

M. Henri Goulet's paper was on the same lines.

On the 25th MARCH.

The Right Hon. the Lord Mayor of Liverpool was in the Chair. Discussion took place on the three following papers:—

(1) "INFANTILE MORTALITY AS AFFECTED BY THE HABITS OF PARENTS." By E. W. HOPE, Esq., M.D., D.Sc., Medical Officer of Health for Liverpool.

(2) "HOW TO DEAL WITH THE CHILDREN OF PARENTS WHO NEGLECT THEM THROUGH DRINK." By Dr. STANLEY B. ATKINSON.

(3) "THE REGULATION AND CONTROL OF THE MANUFACTURE AND SALE OF FOOD AND DRUGS FOR INFANTS." By ERIC PRITCHARD.

Dr. Hope's paper was a very interesting one, and he stated at the commencement:—It is well known that Infant Mortality varies widely, not only in different towns, but in the various wards or districts of the same towns. Poverty or riches, sanitary or insanitary conditions, occupation or the want of it, high birth rate or low, all play their part in bringing these variations about. But every extended inquiry into the intricate subject of infant mortality brings to light the fact that parents living approximately under the same social and sanitary conditions, have such varying success in rearing their infants that the personal factor deserve a careful study.

He also gave illustrative cases of what the poor can do if they are intelligent, as, for example :—

As an illustrative case of an instinctively intelligent woman, I would quote that of Mrs. E———, of No. 6, T——— Street, who has given birth to seven living children, all of them being quite healthy, the youngest two being twins of four months old. The father is a dock labourer, and his wages are stated not to exceed on the average 12/- per week. The house is very clean and comfortable, and the children well cared for, those of the school age attending school regularly. The mother, when she is able, adds to the income by taking in washing, and, as a matter of fact, was working practically up to the day before the birth of the twins.

The mother, who is suckling the twins, is receiving milk for herself from the Corporation Milk Depot, and she is now receiving certain aid from other sources. Neither of the parents drink, and the condition of the home and the children present a striking example of what can be done even with very little money when none of it is wasted in drink.

The following resolutions were passed by the Conference :—

#### RESOLUTIONS.

- 1.—That this Conference expresses its appreciation of Parliament having passed the Notification of Births Act, 1907, and urges upon all Local Authorities the importance of adopting the Act, and appointing qualified women to carry out its provisions.
- 2.—That in order to combat the prevailing ignorance resulting in wastage of infant life and injury to the health of many survivors, the Conference urges upon the Board of Education, and upon Education Authorities generally, the importance of securing to all girls in every grade of school a satisfactory training in domestic and personal hygiene and the duties of womanhood.
- 3.—That the Conference welcomes most gladly the Children's Bill, introduced into the House of Commons by Mr. Herbert Samuel, M.P., for the amendment of the Infant Life Protection Act, 1897, and recommends the Executive Committee to ask that the Bill be specially amended to include the case in which one child only is put out to nurse for reward; and that the Bill be further amended to empower Local Authorities to charge upon the rates the cost of carrying out the existing statutory provisions for the prevention of cruelty to children.
- 4.—That the Conference being convinced of the injury done to Infant Life and Health through infants being taken into Public-Houses, urges upon Parliament the necessity of providing such legislation as will prevent this.
- 5.—That this Conference urges upon Boards of Guardians the advisability of making greater use of their existing powers to adopt, under the Poor Law Act, 1899, the children of incorrigible parents.
- 6.—That all preparations offered or sold as food or drugs for infants should be certified by a Government Analyst as non-injurious, and that each packet should contain its analysis.

- 7.—That, in view of the unsatisfactory conditions under which milk is produced and distributed, the Conference, being of opinion that immediate amendment of the Law is desirable, urges upon Parliament the necessity of at once taking such steps as are necessary to affect this.
- 8.—That the Conference re-affirm the resolution of the former Conference, that the Midwives Act, 1902, be extended to Scotland and Ireland.
- 9.—That the Conference continue as a Committee to give effect to the foregoing resolutions, with power to remit to an Executive Committee to carry out the same.

The Cliff,

Higher Broughton,

Manchester,

April, 1909.

To the Chairman and Members of the Health Committee.

MR. CHAIRMAN AND GENTLEMEN,

I have the honour to submit a synopsis of the public analytical work of the Corporation during the year 1908.

I take this opportunity to thank you for your confidence in appointing me your District Agricultural Analyst (Fertilizers and Feeding Stuffs Acts). I beg also to acknowledge the considerate co-operation of Dr. Berry and the willing help of the staff of the Health Department, particularly that of Chief Inspector Sumner.

I remain,

Mr. Chairman and Gentlemen,

Your obedient Servant,

S. ERNEST MELLING.

## FOOD AND DRUGS.

During the year 1908, I analysed and reported upon 217 samples, which comprised 155 milks, 26 butters, 6 each of whisky and jam, 5 margarines, 3 each of ginger and ground almonds, 2 each of mustard and compound liquorice powder, milk of sulphurs, pepper, and miscellaneous drugs, and one each of Gregory Powder, brandy, and sausage. Fifteen samples were found to be "not of the nature and quality of the substance demanded," and the following table will show which articles were reported against, the percentage of adulteration, and a comparison between 1908 and 1907:—

	Milk.		Butter.		Spirits.		Jam.		Margarine.		Drugs.		Other Articles.		Total.	
	1907.	1908.	1907.	1908.	1907.	1908.	1907.	1908.	1907.	1908.	1907.	1908.	1907.	1908.	1907.	1908.
Number of Samples Analysed ..	135	155	27	26	15	7	Nil.	6	Nil.	5	6	7	29	11	212	217
Number of Samples Adulterated ..	2	10	Nil.	1	3	Nil.	—	2	—	1	1	1	Nil.	Nil.	6	15
Percentage of Adulteration ..	1.5	6.4	Nil.	3.8	20	Nil.	—	33	—	20	16	14	Nil.	Nil.	2.8	6.9



Last year I dealt fairly completely with each article, indicating its composition and defining its characteristics, and as very little fresh ground has been broken in the routine of sampling, I will give, in this report, merely the results of analysis of each article.

The percentage of adulteration in milk has increased four-fold, although a score more samples have been taken. Skimming, or, what comes to the same thing, the addition of separated milk to new milk, accounts for six cases, the samples being deficient in fat to the extent of 3%, 3%, 13%, 5%, 6%, and 13% respectively. A deficiency of 13% is a serious matter at any time, and such cases require thorough investigation. Extraneous water was found on three occasions to the extent of 13%, 5%, and 8% respectively. The remaining milk had suffered extensive adulteration, and was about the worst in my experience of many thousands of official samples. It contained 30 per cent. of added water, was deficient in fat (the result of the copious "watering"), and was preserved with boric acid in amount equal to ten grains per gallon. It is well for the general public that such cases are few and far between! Apart from the above samples the general milk supply has been uniformly satisfactory. The Board of Agriculture limits of 3 per cent. milk-fat, and 8.5 per cent. of non-fatty solids—below which milk is presumed to be sophisticated—can hardly be held as severe, when the Wigan average throughout the year is 3.8 per cent. of fat, and 8.8 per cent. of non-fatty solids. A considerable quantity of water could be added to a milk of this quality without depressing the fat figure below 3 per cent., hence the plea, often raised for the defence in cases of adulteration with water, that the fat of the sample is "above the normal quantity" signifies nothing.

The freedom of the milk supply from preservatives is a pleasing feature. With cleanliness in production, storing, etc., such compounds are absolutely unnecessary, even in the warm summer months.

One butter only was adulterated, this proving to be a high-grade margarine. "Process" butters, which

formerly gave a great deal of trouble to the analyst on account of the skilful manner in which they were blended, are not so prevalent, this salutary effect being due, no doubt, in great measure to the working of the Act which came into operation last year. Only normal proportions of water were found in each case, and in no instance did the proportion of boron compounds when present rise above the recommended limit of 0.5 per cent. or 35 grains per pound, calculated as boric acid.

One sample of margarine contained over 10 per cent. of butter-fat, and so came within the section of the Act which forbids more than that quantity.

None of the samples of spirits submitted for analysis were below the minimum alcoholic strength as defined by Act of Parliament. One brandy was further examined for the presence of silent spirit, but with negative results. The question, "What is whisky?" has not yet been solved, and so far no definite analytical standards have been adopted in arriving at an answer.

Two samples of jam contained salicylic acid as a preservative, one showing an excessive quantity, viz., 3 grains per pound. Here, again, many reputable firms prove the non-necessity of the use of this agent by putting jams on the market innocent of this type of sophistication. On the other hand, some preserves are so badly prepared and loaded with water to such an extent that an antiseptic is essential to retard the rapid growth of mould.

Of the drugs the sample of Gregory powder was adulterated, and this not in a dangerous sense. According to the present issue of the British Pharmacopœia, Gregory powder must contain 66 per cent. of light magnesia (oxide), whereas only 27 per cent. was present in the sample, the deficiency being made up with hydrated carbonate of magnesia—a heavier compound in the ratio of three and a half to one.

All samples of ginger, ground almonds, mustard, and pepper were free from foreign starch, mineral, and vegetable debris, and the sample of sausage was free from boric acid or its compounds.

## WATER.

The Corporation water supply is subject to slight variations month by month, as the accompanying table will show. Relying upon the Albuminoid Ammonia figure as the index of organic contamination, the highest figure was in April, and it is significant that there was the greatest yield of free or saline ammonia in this sample. By a more extended examination it seemed that this contamination was of vegetable origin and only temporary. The next month, the albuminoid ammonia had dropped to  $\cdot 06$ , but there were still heavy traces of free ammonia. Thence onwards the latter disappears, and the albuminoid maintains a constant approximating  $\cdot 07$  to  $\cdot 075$  part per million. A satisfactory constant is the Nitrogen as Nitrites which gave no indication throughout the year of either a nitrifying or denitrifying process.

The salts in solution contributing to the hardness of the water vary very little in the general water supply, the carbonates of lime and magnesia (alkalinity) being practically 3 to 3.5 grains per gallon. The Pemberton supply is altogether heavier in both types of hardness, but, organically, is the same as in Wigan.

MONTHLY ANALYSIS OF THE CORPORATION WATER SUPPLY, 1908.

	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Colour .. .. .					Clear	and Nil.	colour- less.					
Suspended Matter .. .. .												
Hardness before Boiling .. .. .	7.5°	13.0°	10.0°	9.5°	9.5°	5.5°	4.7°	9.5°	9.0°	9.0°	11.5°	18.5°
"    after Boiling .. .. .	5.0°	2.0°	6.5°	6.0°	6.5°	4.0°	3.3°	6.0°	6.0°	5.5°	2.0°	10.5°
Total Solids .. .. .	12.55	24.5	13.85	14.7	13.7	12.6	11.2	14.25	13.0	13.9	30.8	25.5
Chlorides (as Common Salt) .. .. .	1.65	2.62	1.89	1.65	1.78	1.81	1.60	1.65	1.78	.82	2.47	3.3
Carbonates of Lime and Magnesia .. .. .	2.5	11.0	3.5	3.0	3.0	1.5	1.6	3.5	3.0	3.5	9.25	7.5
Nitrogen as Ammonia .. .. .	Nil.	Traces	.0075	.04	.02	Nil.	Nil.	Nil.	Nil.	Nil.	Nil.	Nil.
"    Albuminoid Ammonia .. .. .	.06	.085	.08	.10	.06	.07	.07	.0375	.09	.07	.075	.07
"    Nitrates .. .. .	4.80	3.18	4.64	4.18	3.63	2.76	4.52	2.90	3.63	3.12	Trac's.	Trac's
"    Nitrites .. .. .						Nil.						

Grains per  
Gallon.

Parts per  
Million.

## FERTILIZERS AND FEEDING STUFFS.

During the year fifteen samples were analysed, viz. :--  
Fourteen feeding stuffs and one fertilizer. All these  
were up to the invoices, where given.

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COUNTY BOROUGH OF WIGAN



# Annual Report

OF THE

Chief Sanitary Inspector.

1908.

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WIGAN :

THOS. WALL AND SONS LTD., PRINTERS, "OBSERVER" OFFICE.

1909.

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# Annual Report of the Chief Sanitary Inspector,

1908.

HEALTH DEPARTMENT,

KING STREET WEST,

MARCH, 1909.

*To the Chairman and Members of the Health Committee.*

SIR AND GENTLEMEN,

I have the honour to submit to you my Eighteenth Annual Report of the work done by the staff of this department.

The work has been carried on systematically and with as little friction to the townspeople as possible, whilst the tact displayed by your Inspectors has been the means of nuisances being abated in less time than is usual.

The following is a summary of the work done and a description of the nuisances dealt with :—

Houses and Premises Inspected and Visited ( <i>re</i>					
Nuisances and Complaints)	..	..	..	..	6,442
Nuisances Discovered	..	..	..	..	1,356
"    Abated	..	..	..	..	1,186
Notices Issued (Preliminary)	..	..	..	..	565
"    (Formal)	..	..	..	..	334
Letters written <i>re</i> Nuisances	..	..	..	..	122
Re-Inspections Made (About)	..	..	..	..	3,390
Other Visits Made	..	..	..	..	567
Nuisances Remaining on Books, December 31st, 1908					130



## DESCRIPTION OF NUISANCES DEALT WITH.

Defective Drainage .. .. .	46
Choked Drainage .. .. .	200
Defective and Foul Gullies .. .. .	19
Gullies Requiring Grids .. .. .	20
Defective Slopstones .. .. .	1
Want of Slopstones and Pipes .. .. .	3
Sink Waste Pipes Connected to Drains .. .. .	1
Bath and Lavatory Waste Pipes Connected to Drains .. .. .	1
Bath and Lavatory Waste Pipes Defective .. .. .	1
Soil Pipes or Connections Defective .. .. .	7
Defective or Choked Water Closets .. .. .	23
Want of Pails to Closets .. .. .	1
Defective Condition of Closets (Roof, Walls, Door, Seat, or Floor) .. .. .	144
Want of Doors to Closet .. .. .	43
Want of Doors to Ashhouse .. .. .	19
Defective Condition of Ashhouses (Roof, Walls, Door, or Floor) .. .. .	41
Defective or Choked Waste Water Closets .. .. .	57
Want of Ashtub Covers .. .. .	16
Want of Ashtubs .. .. .	1
Foul and Defective Privies and Ashpits .. .. .	14
W.C.'s without Proper Water Supply .. .. .	3
Defective W.C. Cisterns .. .. .	7
Insufficient Closet Accommodation to Houses or Workshops .. .. .	34
Defective Spouts (Eave or Down) .. .. .	81
Want of Spouting to Premises .. .. .	3
Defective Roofs .. .. .	33
Defective Yard Surface round Gully .. .. .	26
Defective flagging or Paving .. .. .	70
Unpaved Yards and Passages .. .. .	1
Houses without, Proper Drainage .. .. .	5
Houses Overcrowded and Keeping of Lodgers .. .. .	49
Houses and Premises Filthy .. .. .	8
Houses Requiring Limewashing .. .. .	33
Houses with, Filthy Closets .. .. .	26
Houses with, Filthy Yards and Entries .. .. .	7
Houses with, Damp or Defective Walls .. .. .	3
Houses without, Proper or Through Ventilation (Back-to-Back Houses) .. .. .	35
Bakehouses Requiring Limewashing .. .. .	2
Defective Middensteads .. .. .	6
Want of Middensteads .. .. .	5
Accumulation of Manure .. .. .	25
Accumulations of Water .. .. .	8
Accumulations of Rubbish .. .. .	13
Keeping of Animals .. .. .	32
Insufficient Means of Escape in Case of Fire to Factory or Workshop .. .. .	1
Insufficient Ventilation to Closets, Factory, or Workshop .. .. .	2
Miscellaneous .. .. .	145

COMMON LODGING HOUSES AND HOUSES  
"LET-IN-LODGINGS."

The Common Lodging Houses of the Borough and also the Houses "Let-in-Lodgings" have been regularly visited by day, and also surprise visits paid by night. Night visits have not been so frequent during the past year, as the houses have been found in a better condition than usual. Mr. Bishop has, I must say, had better results than ever in the effort to keep these houses up to the standard we require.

COMMON LODGING HOUSES.

No. of Common Lodging Houses in the Borough ..	18
„ Lodgers Allowed Nightly .. .. .	892
„ Visits by Day .. .. .	1,994
„ „ Night .. .. .	124
„ Lodgers Reported as being Received (per Returns) .. .. .	234,104
„ Letters Sent Out .. .. .	3
„ Houses "Let in Lodgings" on Register ..	62
„ Visits to Houses "Let in Lodgings" (Day) .	376
„ „ „ (Night)	17

COMMON LODGING HOUSES.

No. on Register.	House.
1 .. .. .	2 and 4, John Street.
2 .. .. .	"Brown Cow," Queen Street.
4 .. .. .	46, Queen Street.
5 .. .. .	1, 3, 5, Union Street.
6 .. .. .	16, Hardybutts.
7 .. .. .	87, 89, 91, Millgate.
8 .. .. .	1, Hardybutts.
9 .. .. .	14, Scholes.
12 .. .. .	7, Wiend.
13 .. .. .	1, Swift's Yard, Millgate.
14 .. .. .	7, Hardybutts
15 .. .. .	32, „
24 .. .. .	28, Wiend.
34 .. .. .	27, Hallgate.
35 .. .. .	19, Warrington Lane
36 .. .. .	1, 3, 5, 7, 9, Scholes.
37 .. .. .	7, 9, Union Street.
38 .. .. .	36, 38, Hardybutts.

## SLAUGHTER HOUSES.

Appended is the work which has been carried out in connection with the above. The question of a Public Abattoir is still before the Committee, and until one is erected the work thrown on the staff in inspecting carcasses by request of the butchers is bound to be heavy.

The occupiers of the slaughter houses try, I think, to the best of their ability to comply with the bye-laws, but have to be frequently cautioned about the removal of garbage as soon after killing as possible.

## SLAUGHTER-HOUSES AND MARKETS, &amp;c.

No. of Slaughter-Houses in Borough .. .. .	27
„ Offensive Trade Premises in Borough .. .. .	7
„ Visits to Slaughter-Houses .. .. .	1,205
„ „ Offensive Trade Premises .. .. .	61
„ „ Markets .. .. .	309
„ Letters Sent Out.. .. .	7
„ Condemned Food Certificates Given .. .. .	233

## SLAUGHTER-HOUSES.

Behind 8, Darlington Street.  
 „ 60, „  
 Upper Morris Street.  
 Rigby's Buildings, Scholes.  
 Behind 124, Scholes.  
 Wiend.  
 Water Street.  
 Behind 75, Wigan Lane.  
 Bottom Croft.  
 Shaw's Yard, Hallgate.  
 Clayton Street.  
 Hilton's Yard, Scholes.  
 Mill Yard, Scholes.  
 Behind 53, Birkett Bank.  
 Altham's Yard, Standishgate.  
 Behind 133, Standishgate.  
 122, Scholes.  
 132a, Ormskirk Road.  
 Walthew House Farm.  
 274, Billinge Road.  
 808, Ormskirk Road.  
 Brickcroft, Lamberhead Green.  
 841, Ormskirk Road.  
 Smithy Brook, Goose Green.  
 270, Warrington Road.  
 Sayer's Yard, Scholes.

## OFFENSIVE TRADE PREMISES.

Millgate.  
 Church Street.  
 Crompton Street.  
 Hallgate.  
 Watmough's Yard, Scholes.  
 Harrison Meadows.  
 Jackson's Yard, Scholes.

Number of Beasts that have been Inspected by request during 1908 :—

No. of Beasts Passed	..	..	..	..	..	233 $\frac{1}{4}$
„	Condemned	..	..	..	..	19 $\frac{3}{4}$

## FOOD CONDEMNED, 1908.

January.	2 Beasts, 8 Turkeys, 2 Hares, 176 Rabbits, 1 Kit and 37 Boxes of Fish.
February.	3 Beasts, 4 Boxes of Fish, 1 Box and 19 $\frac{1}{2}$ Pork Kidneys.
March.	1 Fore-quarter of Beef, 33 Rabbits, 15 Boxes of Fish.
April.	4 Beasts, 43 Rabbits, 21 Boxes of Fish.
May.	2 Beasts, 95 Rabbits, 9 Kits and 37 Boxes of Fish.
June.	1 Basket and 1 Bag of Livers, 18 Rabbits, 1 Bag and 1 Basket of Shrimps, 7 Bags of Offal, 63 Boxes, 1 Barrel, and 22 Fish.
July.	$\frac{1}{2}$ Beast, 1 Bag of Trotters, 1 Bag of Offal, 3 Baskets of Yeast, 64 Boxes and 22lb. of Fish.
August.	1 Beast, 29 Boxes, 1 Barrel, and 1 Fish.
September.	2 Beasts, 6 Bags of Cockles, 151 and 1 Box of Rabbits, 46 Boxes of Fish.
October.	1 Pig, 4 Beasts, 3 Fore-quarters and 94lb. of Beef, 1 Bag of Mussels, 10 Chickens, 51 $\frac{3}{4}$ Boxes of Fish, 993 Rabbits.
November.	2 Beasts, 2 Fore-quarters of Beef, 1 Turkey, 45 Rabbits, 18 Boxes of Fish.
December.	2 Boxes of Fish.

## SUMMARY.

20 $\frac{1}{2}$ Beasts.	23 Fish.
6 Fore-quarters of Beef.	1 Box of Kidneys.
1 Pig.	19 $\frac{1}{2}$ Kindeys.
9 Turkeys.	1 Basket of Livers.
10 Chickens.	1 Bag of Livers
2 Hares.	1 „ Shrimps
1 Box of Rabbits.	1 Basket of Shrimps.
1,554 Rabbits.	8 Bags of Offal.
10 Kits of Fish.	1 Bag of Trotters.
387 $\frac{3}{4}$ Boxes of Fish.	3 Baskets of Yeast.
2 Barrels of Fish.	6 Bags of Cockles.
22lb. of Fish,	1 Bag of Mussels,



## INFECTIOUS DISEASES.

The services of an Inspector are almost fully employed in paying surprise visits to the houses where infectious diseases have been notified, and seeing that the instructions issued by the Medical Officer of Health are properly carried out. The disinfection of the rooms and bedding, etc., have kept the men who are entrusted with this work fully occupied.

## INFECTIOUS DISEASES (PREVENTION ACT).

No. of Houses Disinfected	..	..	..	..	594
„ Rooms	„	..	..	..	772
„ Beds	„	..	..	..	602
„ Mattresses	„	..	..	..	471
„ Sheets and Quilts Disinfected	..	..	..	..	1,920
„ Other Articles	„	..	..	..	4,781
„ Premises Cleansed and Limewashed after Infectious Disease	..	..	..	..	199
„ Visits to Houses <i>re</i> Limewashing & Cleansing					304
„ „ Infectious Disease				..	1,838
„ Letters Sent Out <i>re</i> „				..	20
„ „ Limewashing, &c.				..	42

SALE OF FOOD AND DRUGS ACTS, 1877  
to 1899. MARGARINE ACTS, 1877 to 1899.

Samples as appended have been procured and submitted to the Borough Analyst (Mr. S. E. Melling) during the year.

No. of Samples Obtained for Analysis	..	..	..	..	241
„ „ Genuine	..	..	..	..	223
„ „ Adulterated	..	..	..	..	18
„ “Not Formal” Samples	..	..	..	..	35
„ Letters Sent Out..	..	..	..	..	41

	Samples.	Genuine.	Adulterated	Not Formal Samples.
New Milk .. .. .	162	152	10	7
Butter .. .. .	25	24	1	3
Compound      Liquorice Powder .. .. .	2	2	—	—
Milk of Sulphur .. .. .	2	2	—	—
Gregory Powder .. .. .	1	—	1	—
Mustard .. .. .	2	2	—	—
Ground Ginger .. .. .	3	3	—	—
White Pepper .. .. .	2	2	—	—
Sausages .. .. .	1	1	—	—
Jam .. .. .	6	3	3	—
Ground Almonds .. .. .	3	3	—	3
Whisky .. .. .	6	6	—	—
Brandy .. .. .	1	1	—	1
Gin .. .. .	10	8	2	10
Rum .. .. .	8	8	—	8
Margarine .. .. .	5	4	1	1
Stomach and Liver Mixture	1	1	—	1
Herbal Pills .. .. .	1	1	—	1
	<hr/> 241	223	18	35

## FERTILISERS AND FOOD STUFFS ACT.

Several samples which have been reported on by the Borough Analyst, and which appear in his report, have been taken by me. They were all satisfactory.

## FACTORY AND WORKSHOP ACTS.

The provisions of the above Acts which come under the supervision of this department have been fully carried out by Inspector Bishop with very satisfactory results. No prosecutions have been necessary. Numerous notices have been received from H.M. Inspectors (Male and Female), and the M.O.H. and myself have had interviews with Mr. Clarke (H.M. Inspector for this district) drawing attention to the want of uniformity of inspection.

## FACTORY AND WORKSHOP ACTS.

No. of Visits to Workshops (Day)	..	..	..	1,115
„ „ Factories	..	..	..	189
„ Letters Sent Out..	..	..	..	62

## SHOP HOURS ACT.

No. of Visits to Shops (Day)	..	..	..	101
„ „ <i>re</i> Closing Order (Hairdressers and Barbers) (Day)	..	..	..	413
„ Visits <i>re</i> Closing Order (Hairdressers and Barbers) (Night)	..	..	..	465
„ Letters Sent Out..	..	..	..	7

## DAIRIES, COWSHEDS, AND MILKSHOPS ORDER.

No. of Visits	..	..	..	..	..	95
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## PROSECUTIONS, 1908.

February 24th.	For exposing for sale 7 pieces of meat, which were diseased, unsound, and unfit for the food of man. Fined £10 and costs.
May 4th.	For having in his possession 2 carcasses of beef and offal which were then diseased, unsound, and unfit for the food of man. After warrant issued fined £5 and costs.
June 15th.	For exposing for sale 1 box of Haddock's which were then unsound and unfit for the food of man. Fined 1/- and costs.
October 1st.	For non-compliance of notice under Public Health Acts for nuisance existing. Pay costs and comply within a month.
„	For non-compliance of notice under Public Health Acts for nuisance existing. Pay costs. Abate within two months.
October 5th.	For selling to the prejudice of the purchaser 1lb. of butter not of the nature, &c., demanded Case dismissed.
„	For selling to the prejudice of the purchaser 1 pint of New Milk, not of the nature, &c., demanded. Case withdrawn.
November 12th.	For having in their possession and exposing for sale 27 pieces of meat, which were then unsound, diseased, and unfit for the food of man. Warrant issued for their arrest.
	For exposing for sale 1 Fore-quarter of Beef which was diseased and unfit for the food of man. Pay costs.



In conclusion, gentlemen, I thank you for the encouragement given to us by all the Members of the Committee, and I thank each individual member of the staff for the zeal and earnestness displayed by them in carrying out their duties.

I remain, Gentlemen,

Your obedient Servant,

JOHN SUMNER,

Chief Sanitary Inspector

