

**[Report 1909] / Medical Officer of Health, Ashton-under-Lyne Borough.**

**Contributors**

Ashton-under-Lyne (England). Borough Council.

**Publication/Creation**

1909

**Persistent URL**

<https://wellcomecollection.org/works/f3u9npxm>

**License and attribution**

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

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

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



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



BOROUGH OF ASHTON-UNDER-LYNE,

---

ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH

FOR THE YEAR

1909.

BY

JOHN W. TALENT, M.D., D.P.H.



REPORT OF THE MEDICAL OFFICER  
OF HEALTH.

---

THE PUBLIC HEALTH OFFICES,  
TOWN HALL CHAMBERS,  
ASHTON-UNDER-LYNE,

*March 2nd, 1910.*

TO THE CHAIRMAN AND MEMBERS  
OF THE HEALTH COMMITTEE.

GENTLEMEN,

I beg to submit to you my Fourth Annual Report on the Health of the Borough and the administration of the Health Department during the year 1909, being the first since my appointment as whole-time Medical Officer of Health and School Medical Officer.

Part I. deals with the general Vital Statistics; Part II. with the Statistics and Prevalence of Infectious Disease; while Part III. gives the details of the work carried out by the Members of the Staff to improve and maintain the Sanitary conditions of the Borough, along with a few Addenda. During the year the Notification of Births Act (1907) came into operation with very satisfactory results.

At the end of the year a scheme was passed for the better dealing with cases of Consumption, and will be carried out in the coming year. Also it was resolved to adopt the Model Bye-Laws, issued by the Local Government Board, in regard to Slaughter Houses.

It is much to be hoped that it may be possible during 1910 to provide a Steam Disinfector for the use of the Borough.

With many thanks to my Staff for their willing assistance at all times,

I have the honour to remain,

Your obedient servant,

JOHN WILLIAM TALENT.

SECTION I.

# MORTALITY STATISTICS.



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

<https://archive.org/details/b28812669>

## SECTION I.

## MORTALITY STATISTICS.

**POPULATION.**—The estimated population for the middle of the year was 46,225 or an increase of 427 over the population of the previous year.

This number is ascertained by assuming that the population of the Borough continues to increase at the same rate as in the decennium 1891-1901. But this assumption may not be correct, in which case the birth rate and death rate calculated upon it will also be incorrect. One method of checking the estimate is by calculating 4·5 persons to be living in each inhabited house. The inhabited houses number 10,294; this would give a population of 46,323, which is only 98 more than our estimate. Mr. Earnshaw, Borough Surveyor, has kindly supplied me with the following data :—

## DISTRIBUTION OF POPULATION.

	No. of Houses Inhabited.	Population	Persons per house.
1881	7,575	37,040	4·89
1891	8,542	40,063	4·69
1901	9,579	43,890	4·59
1908	10,247	46,708	4·56

This last is merely an estimate, and exceeds our calculation for 1908 of 45,798 by 910. Mr. Marsland, of the Education Department, kindly sends me the following results of a census made during 1908-09 by the School Attendance Officers :—

Tenanted houses, 10,119; Inhabitants	... 42,440
Officers and Inmates of Workhouse...	... 1,120
Officers and Inmates of District Infirmary...	140
Officers and Inmates of Isolation Hospital...	10
Total	... 43,710

According to this estimate the population for 1908-09 was only 43,710, or less than our estimate of 45,798 by 2,088.

Number of Inhabited Houses and Empty Houses in the Borough, extracted from the Rate Book July, 1909 :—

Ward.	Number.	Empty.
Portland Place ... ..	1953	32
St. Peter's... ..	3519	28
St. Michael's ... ..	1461	36
Market ... ..	3504	53
Total ... ..	10,443	149
Deduct empty	149	
Inhabited ...	10,294	

The natural increase of the population for the year, that is, the excess of births over deaths, is 234.

**MARRIAGES.**—The number of Marriages celebrated in the Borough in 1909 was 497. This gives a marriage rate of 10·7 per thousand of the population.

**BIRTHS.**—There were 1,069 births registered in the Borough in 1909, 553 being males and 516 females, giving a birth rate of 23·1 per thousand of the population. This is a decrease from the previous year of 158 births, or a diminution in the birth rate of 3·6 per thousand. The following table gives the birth rate for the separate Wards :—

## BIRTH RATE IN WARDS.

	St. Peter's.	Portland.	Market.	St. Michael's
Number of Births .....	324	241	350	125
Birth Rate .....	21.9	27.6	23.3	18.8

The birth rate for the 143 smaller towns was 24.8, and for the whole of England and Wales 25.6, as compared with 23.1 in Ashton. There were 76 births registered as illegitimate, or 6.6 of the total births.

There were 19 illegitimate births in the first quarter, 19 in the second, 24 in the third, and 14 in the fourth.

**STILL BIRTHS.**—The midwives notified the occurrence of 45 still births.

Under the Notification of Births Act we have received notices of 911 births, or 85 per cent of the whole.

**DEATHS.**—The total number of deaths registered in the Borough during 1909 was 1,034. Of these 202 were non-residents, whilst three deaths of persons belonging to Ashton occurred in Institutions outside the Borough. The total number of deaths of Ashton people was, therefore, 835. Of this number 423 were males and 412 females. Of the 202 non-residents, 154 died in the Union Workhouse and 48 in the Infirmary. The death rate, corrected for residents and non-residents, was 18.0 per thousand of the population. Of the 835 deaths of Ashton people 249 were in the first quarter of the year, 224 in the second, 170 in the third, and 192 in the fourth.

## DEATH RATE IN WARDS.

	St. Peter's.	Portland.	Market.	St. Michael's
Number of Deaths .....	227	144	245	105
Death Rate .....	15·3	16·5	16·3	15·8

The death rate for the 143 smaller towns was 13·9.

The accompanying charts show the number of deaths registered weekly from all causes and from zymotic diseases, and also the death rate for the last twenty years.

**Acute Lung Disease.**—From bronchitis, pneumonia, and pleurisy 176 deaths were registered, against 159 for 1908, 185 for 1907, and 162 for 1906. From bronchitis there were 110 deaths, giving a death rate of 2·3 per 1,000 persons living, while from pneumonia there were 60 deaths, giving a death rate of 1·2.

From respiratory diseases generally there were 17 more deaths than in 1908.

**Cancer.**—There were 32 deaths registered as being due to cancer or malignant disease, giving a death rate of 0·6 per 1,000, as compared with 0·7 of last year.

**Nervous Diseases.**—From the various nervous diseases there were 96 deaths, giving a death rate of 2·0 per 1,000, as compared with 2·5 in 1908, 2·4 in 1907, and 1·7 in 1906.

**Heart Disease.**—There were 82 deaths from heart disease. This gives a death rate of 1·7 per 1,000, compared with 1·6 for 1908, 1·3 for 1907, and 1·6 for 1906.

**Comparison with Septennial Averages**—In table 8 will be found a comparison of the deaths from various specified causes in 1909, with the septennial average number for the Borough, and from this it will be noticed that we have an excess of deaths from Measles, Scarlet Fever, Diphtheria, Enteric, and Phthisis, and a decrease chiefly in deaths from Whooping Cough and Diarrhœa.

**Phthisis, Tubercular Diseases, and Influenza.**—The mortality from these diseases will be found in Part II. of this report.

Out of the total number of deaths 772, or 92·4 per cent, were certified by Registered Medical Practitioners, 52, or 6·2 per cent, by the Coroner, and 11, or 1·3 per cent, were uncertified.

#### DEATHS AT VARIOUS AGES.

Under 1 year	1 to 5 years	5 to 15 years	15 to 25 years	25 to 65 years	65 years and over
176	89	29	38	309	191

**Infant Mortality.**—The number of deaths registered under one year of age was 176, giving a death rate of 164·6 per 1,000 births. This is a decrease on the previous year, when the death rate was 183·3 per 1,000 births. It is also below the average for the preceding five years, which was 168·7 per 1,000.

Year	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908
Rate	223·9	181·8	182·2	142·5	199·8	172·0	179·2	152·5	156·9	183·3

The Infant Mortality for the 143 smaller towns was 111.

INFANTILE MORTALITY RATE IN WARDS.

St. Peter's	Portland	Market	St. Michael's.
151·2	165·9	188·5	120·0

During the year much interest was created among the mothers of poor children by Colonel Pollitt's gift of £1 each to a certain number whose children reached the age of twelve months. A sum of £125 was thus distributed, and has undoubtedly done much good in causing some mothers to think more of the health of their babies, and give them greater care. The two Health Visitors have worked systematically during the year. In November Miss Moores resigned, much to our regret, to take up another post. The work is being carried on for the present by Miss Crawford alone. The ladies of the Health Society have given valuable help and assistance all through the year by visiting personally the poorer homes, and in many cases giving help in the shape of clothing and sterilised milk. This is supplied privately or from a fund obtained from a Sale of Work.

The Births notified under the Notification of Births Act, 1907, numbered 911. Each of these received three visits from the official Health Visitor. The first within a few days of birth, the second about five months of age, the third about nine or ten months of age. Besides this many of them were visited by the ladies of the Health Society.

The following is an account of the work of the two official Health Visitors :—

Of the 1,069 births registered in the Borough 843 have been visited by the Health Visitors, or 79 per cent. The remaining 21 per cent consisted of infants belonging to houses of higher rentals.

FEEDING OF INFANTS BORN IN 1909 VISITED AND WATCHED  
BY THE HEALTH VISITORS.

				Nature of Food.	
Suckled to 3 months...	429	...	Cows' Milk.....	101	
„ 6 „	128	...	Modified Milk..	34	
„ 9 „	77	...	Nestle's Milk...	39	
			Various Foods..	35	
Totals ...				624	209

Of the 209 children who were weaned at an early period, inability of the mother to suckle was the cause given by 175, and going to work very soon after confinement 35. In 24 instances the mothers came out of the mill to suckle their babies. Mothers returning to work after confinement numbered 94 ; of these 6 went out cleaning, the rest to the mill.

As to the interval of time after confinement when mothers returned to work, it was found

14	returned	when	baby	was	1	month	old
25	„	„	„	2	months	old	
14	„	„	„	4	„		
11	„	„	„	6	„		

Enquiry was made as to the portion of pregnancy during which some women worked. It was found that 8 worked up to 2 weeks or less from confinement.

11 worked up to 1 month before confinement.

17	„	2 months	„
13	„	3 „	„
9	„	4 „	„
6	„	6 „	„

After paying the first visit it was found 84 had removed by the time of the second visit, and were lost sight of.

The houses visited were found in a dirty condition in 84 cases.

The parents were very poor in 73, and the greater number of these, if not all, received help from the Ladies' Health Society in the form of sterilised milk, modified milk, coals, etc.

The parents in 14 cases were of drunken habits, and neglected their children.

As showing the class of people thus visited, the rents of houses were found to be as follows :—

6/- to 5/- per week	...	...	77
5/- to 4/- per week	...	...	278
4/- to 3/- per week	...	...	199
3/- and less per week	...	...	56

Many of the rents, not ascertained, were below 3/-.

**Senile Mortality.**—One hundred and ninety-one, or 22·9 per cent of the total deaths, were those of persons 65 years of age or over. The causes of these were :—

Heart Disease...	22	Brain Disease ...	15
Old age.....	59	Cancer .....	10
Bronchitis	} ... 45	Other causes ...	29
Pneumonia		Ill-defined .....	11

**Zymotic Diseases.**—The zymotic death rate for the year was 1·7 per thousand of the population, as compared with 1·7 in the previous year, 1908, and 2·0 in 1907.

The deaths from the various diseases are given in the following table :—

1909. 1908.			1909. 1908.		
Measles.....	25	... 3	Whooping Cough	8	... 20
Scarlet Fever.....	11	... 4	Diphtheria .....	14	... 5
Enteric .....	7	... 5	Diarrhoea .....	10	... 44

Detailed information as to zymotic sickness will be found in Part II. of this report.

### STATISTICAL SUMMARY, 1909.

Population, estimated to mid-year .....	46,325	
Births :—Males.....	553	
Females .....	516	
— Total.....		1,069
Annual rate of births per 1,000 of the population	23·1	
Deaths under one year of age per 1,000 births ...	164·6	
Deaths :—Males .....	423	
Females .....	412	
— Total.....		835
Annual rate of Mortality per 1,000 .....	18·0	
Annual rate of mortality per 1,000 from the seven principal zymotic diseases .....	1·7	
Excess of registered births over deaths .....	234	
Estimated annual increase of population.....	427	

**Density.**—The mean density of the Borough is equal to 33·1 persons per acre. Area : 1,396 acres.

**Elevation.**—The mean elevation of the Borough is 414 feet above sea level, and varies between 310 feet and 519 feet.

## SECTION I. (1).

## ASHTON-UNDER-LYNE.

WITH VITAL STATISTICS OF WHOLE DISTRICT DURING 1909 AND PREVIOUS YEARS.

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-residents 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
1899.....	45000	1189	26.3	266	223.9	1108	24.6	268	165	No record	943	20.9
1900.....	45000	1237	27.4	225	181.8	1088	24.1	292	183	2	905	20.1
1901.....	43890	1092	24.8	201	182.2	1006	22.9	283	187	4	821	18.7
1902.....	43890	1228	27.9	179	145.7	1006	22.9	281	168	3	842	19.1
1903.....	44232	1161	26.2	238	204.9	1076	24.3	324	193	6	886	20.0
1904.....	44541	1203	27.0	207	172.0	767	17.2	296	187	6	773	17.3
1905.....	44880	1183	26.3	212	173.2	979	18.2	273	158	7	827	18.4
1906.....	45161	1200	26.5	183	152.5	964	17.2	305	183	3	788	17.4
1907.....	45462	1217	26.7	191	156.9	1004	18.0	299	185	3	822	18.0
1908.....	45798	1227	26.7	225	183.5	1110	19.0	367	234	3	876	19.1
Averages for years 1899-1908.	44785	1193	26.5	212	178.2	1010	20.8	298	184	3	843	18.9
1909.....	46225	1069	23.1	176	164.6	1034	18.0	313	202	3	835	18.0

\*Rates in columns 4, 8 and 13 are calculated per 1000 of the estimated gross population.

Area of District in acres (exclusive of area covered by water) 1396. Total population of all ages, 43890. } At census of 1901.  
Number of inhabited houses, 9581. Average number of persons per house, 4.58.

## SECTION I. (6)

A RETURN OF THE NUMBER OF DEATHS AND  
DEATH RATE, ALSO THE DEATH RATE  
From the Seven Principal Zymotic Diseases, from 1900  
to 1909, inclusive, also Phthisis and Respiratory Diseases.

NAMES OF DISEASES.	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909
Membranous Croup	...	...	...	...	...	...	...	...	...	...
Smallpox .....	...	...	...	2	9	...	...	...	...	...
Measles.....	35	3	15	49	10	12	14	30	3	25
Scarlatina .....	1	8	12	2	9	7	2	14	4	11
Diphtheria .....	3	4	5	4	9	4	...	2	5	14
Whooping Cough..	19	5	13	29	10	14	...	21	20	8
Typhus	...	...	...	...	...	...	...	...	...	...
Enteric } Fevers	13	3	8	7	7	6	4	5	5	11
Puerperal }	...	...	...	...	...	2	...	...	...	...
Diarrhoea }	...	...	...	...	...	...	...	...	...	...
Dysentery }	15	57	11	29	27	38	63	21	44	10
Erysipelas .....	...	...	...	1	2	...	...	...	...	2
Chicken Pox .....	...	...	...	...	...	...	...	...	...	...
Total Deaths from the Seven Zymotic Diseases .....	86	82	64	123	83	83	83	93	81	81
Deaths from other Causes .....	819	737	774	760	684	738	698	726	792	754
Total Deaths for each year due to the Borough .....	905	819	838	883	767	821	781	819	873	835
Death Rate per 1,000 from the Seven Zymotic Diseases .....	1.9	1.8	1.4	2.7	1.8	1.8	1.8	2.0	1.7	1.7
Phthisis .....	1.5	1.7	1.5	1.4	0.9	1.3	1.4	1.0	1.4	1.6
Respiratory Diseases .....	4.1	4.1	4.2	3.9	3.4	4.2	3.5	3.9	3.4	3.8
Death Rate from all other causes...	12.6	11.0	11.9	11.9	11.1	10.9	10.5	11.1	12.5	13.10
General death rate	20.1	18.6	19.0	19.9	17.2	18.2	17.2	18.0	19.0	17.9

## SECTION I. (2).

## ASHTON-UNDER-LYNE.

## VITAL STATISTICS OF SEPARATE LOCALITIES IN 1909 AND PREVIOUS YEARS.

NAMES OF LOCALITIES.	ST. PETER'S WARD.				PORTLAND PLACE WARD.				MARKET WARD.				ST. MICHAEL'S WARD.				WORKHOUSE.				INFIRMARY.				BOROUGH HOSPITAL.				
	Year.	Population esti- mated to middle of each year.	Births Registered.	Deaths at all Ages.	Deaths under 1 year.	Population esti- mated to middle of each year.	Births Registered.	Deaths at all Ages.	Deaths under 1 year.	Population esti- mated to middle of each year.	Births Registered.	Deaths at all Ages.	Deaths under 1 year.	Population esti- mated to middle of each year.	Births Registered.	Deaths at all Ages.	Deaths under 1 year.	Population esti- mated to middle of each year.	Births Registered.	Deaths at all Ages.	Deaths under 1 year.	Population esti- mated to middle of each year.	Births Registered.	Deaths at all Ages.	Deaths under 1 year.	Population esti- mated to middle of each year.	Births Registered.	Deaths at all Ages.	Deaths under 1 year.
1899 ..	13969	341	253	77	9218	294	195	68	14643	392	286	93	6286	133	101	25	884	28	85	3	..	..	15	..	..	..	..	3	..
1900 ..	13969	369	215	52	9218	298	207	63	14643	411	276	80	6286	132	98	29	884	26	90	1	..	..	17	..	..	..	..	..	..
1901 ..	13892	323	250	64	8718	297	157	57	14299	391	229	58	6298	130	87	19	983	21	75	3	..	..	19	..	..	..	..	..	..
1902 ..	13592	363	236	51	8718	299	169	50	14299	406	229	51	6298	139	95	20	983	21	86	2	..	..	25	1	..	..	..	..	..
1903 ..	13760	360	220	70	8718	273	167	54	14397	378	265	76	6346	122	102	24	1011	27	107	7	..	..	23	..	..	..	1	..	1
1904 ..	13928	364	196	55	8718	276	146	52	14495	404	233	70	6394	132	87	20	1006	27	85	8	..	..	17	..	..	..	..	9	2
1905 ..	14096	360	227	69	8718	257	155	53	14593	412	233	61	6442	126	97	24	1031	28	100	5	..	..	15	..	..	..	..	0	..
1906 ..	14264	385	216	50	8718	265	150	54	14691	403	225	60	6490	124	75	15	998	23	97	4	..	..	25	..	..	..	0	..	..
1907 ..	14432	368	223	64	8718	284	152	42	14789	399	239	62	6538	137	89	18	985	23	83	3	..	1	28	2	..	..	3	..	..
1908 ..	14600	378	209	55	8718	294	197	75	14887	380	261	67	6586	129	76	23	1007	46	96	3	..	..	37	2	..	..	0	..	..
Averages of years 1899 to 1908.	14020	361	225	60	8818	277	169	56	14573	397	247	67	6396	129	90	21	977	27	90	3	..	0.1	22	0.5	..	0.1	2	0.3	..
1909 ..	14768	324	230	49	8718	241	144	40	14985	350	245	66	6634	135	105	15	1120	29	86	4	..	0	23	2	..	0	2	0	..

## SECTION I. (6)

A RETURN OF THE NUMBER OF DEATHS AND  
DEATH RATE, ALSO THE DEATH RATEFrom the Seven Principal Zymotic Diseases, from 1900  
to 1909, inclusive, also Phthisis and Respiratory Diseases.

NAMES OF DISEASES.	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909
Membranous Croup	...	...	...	...	...	...	...	...	...	...
Smallpox	...	...	...	2	9	...	...	...	...	...
Measles	35	3	15	49	10	12	14	30	3	25
Scarlatina	1	8	12	2	9	7	2	14	4	11
Diphtheria	3	4	5	4	9	4	...	2	5	14
Whooping Cough	19	5	13	29	10	14	...	21	20	8
Typhus	...	...	...	...	...	...	...	...	...	...
Enteric } Fevers	13	3	8	7	7	6	4	5	5	11
Puerperal }	...	...	...	...	...	2	...	...	...	...
Diarrhoea }	...	...	...	...	...	...	...	...	...	...
Dysentery }	15	57	11	29	27	38	63	21	44	10
Erysipelas	...	...	...	1	2	...	...	...	...	2
Chicken Pox	...	...	...	...	...	...	...	...	...	...
Total Deaths from the Seven Zymotic Diseases	86	82	64	123	83	83	83	93	81	81
Deaths from other Causes	819	737	774	760	684	738	698	726	792	754
Total Deaths for each year due to the Borough	905	819	838	883	767	821	781	819	873	835
Death Rate per 1,000 from the Seven Zymotic Diseases	1.9	1.8	1.4	2.7	1.8	1.8	1.8	2.0	1.7	1.7
Phthisis	1.5	1.7	1.5	1.4	0.9	1.3	1.4	1.0	1.4	1.6
Respiratory Diseases	4.1	4.1	4.2	3.9	3.4	4.2	3.5	3.9	3.4	3.8
Death Rate from all other causes	12.6	11.0	11.9	11.9	11.1	10.9	10.5	11.1	12.5	13.10
General death rate	20.1	18.6	19.0	19.9	17.2	18.2	17.2	18.0	19.0	17.9

(A)

## TABLE OF DEATHS

SECTION I. (3).

During the year 1909, in the Urban Sanitary District of Ashton-under-Lyne, classified according to DISEASES, AGES, and LOCALITIES, and showing also the Population of such Localities, and the Births therein during the year.

Names of Localities adopted for the purpose of these Statistics; public institutions being shown as separate localities.	POPULATION AT ALL AGES	Registered Births.	MORTALITY FROM ALL CAUSES AT SUBJOINED AGES.							MORTALITY FROM SUBJOINED CAUSES, DISTINGUISHING DEATHS OF CHILDREN UNDER FIVE YEARS OF AGE.																					
			At all ages.	Under 1 year.	1 and under 5	5 and under 15	15 and under 25	25 and under 65	65 and upwards		FEVERS																				
											Smallpox	Scarlatina	Diphtheria	Typhus	Euteric Typhoid	Continued	Relapsing	Puerperal	Cholera	Erysipelas	Measles	Whooping Cough	Diphtheria & Dysentery	Rheumatic Fever	Phthisis	Bronchitis, Pneumonia, & Pleurisy	Heart Disease	Influenza	Injuries	All other Diseases	TOTAL
St. Peter's Ward .....	14768	324	227	49	27	4	11	80	56	Under 5	..	..	2	..	..	..	..	..	..	..	10	4	3	..	1	14	..	1	..	41	76
										5 upwds	..	..	1	..	2	..	..	1	..	1	..	..	..	1	14	31	18	..	5	77	151
Portland Place Ward .....	8718	241	144	40	16	6	9	52	21	Under 5	..	..	1	..	..	..	..	..	..	..	5	..	4	..	3	17	1	..	1	24	56
										5 upwds	..	..	2	..	2	..	..	..	..	..	..	..	..	1	20	20	13	1	3	26	88
Market Ward .....	14985	350	245	66	26	9	8	83	53	Under 5	..	2	2	..	..	..	..	..	..	..	7	3	2	..	2	24	..	..	2	48	92
										5 upwds	..	2	4	..	3	..	..	1	..	1	1	..	..	4	10	28	21	2	2	74	153
St. Michael's Ward....H.....	6634	125	105	15	13	7	6	42	22	Under 5	..	3	..	..	..	..	..	..	..	..	2	1	1	..	..	7	..	..	..	14	28
										5 upwds	..	3	2	..	..	..	..	..	..	..	..	..	..	..	15	16	14	1	4	22	77
Workhouse.....	1120	29	86	4	3	..	3	40	36	Under 5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	1	..	..	4	7
										5 upwds	..	..	..	..	..	..	..	1	..	..	..	..	..	..	10	16	14	..	..	38	79
Infirmary .....	..	..	23	2	3	2	1	12	3	Under 5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	3	5
										5 upwds	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	2	..	..	4	11	18
Borough Hospital.....	..	..	2	..	1	1	..	..	..	Under 5	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
										5 upwds	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1
TOTALS .....	46225	1069	832	176	89	29	38	309	191	Under 5	..	6	5	..	..	..	..	..	..	..	24	8	10	..	9	62	2	1	4	134	265
										5 upwds	..	5	9	..	7	..	..	4	..	2	1	..	..	6	69	114	80	4	18	248	567

(A)

During the year 1908, in the Urban Sanitary District, there were 1,000 deaths from all causes, and 1,000 births.

## SECTION I. (6).

I. Institutions within the District receiving sick and infirm persons from outside the District.	II. Institutions outside the District receiving sick and infirm persons from the District.	III. Other Institutions, the deaths in which have been distributed among the several localities in the District.
Union Workhouse	Manchester Royal Infirmary.	
District Infirmary.	St. Mary's Hospital, Manchester.	Nil.
Borough Hospital.	Union Workhouse, Oldham.	
	Ashton-under-Lyne and District Joint Smallpox Hospital.	

The Union Workhouse is within the District.

## SECTION I. (7).

CAUSES OF DEATH REGISTERED IN EACH OF THE SEVEN YEARS  
1902—1908, IN 1909, AND THE AVERAGE SEPTENNIAL NUMBER.

	1902	1903	1904	1905	1906	1907	1908	Average	1909
Smallpox .....	...	2	9	...	...	...	...	1	...
Measles .....	15	49	10	12	14	30	3	19	25
Scarlet Fever.....	14	2	9	7	2	14	4	7	11
Whooping Cough	13	29	10	14	...	21	20	15	8
Diphtheria .....	5	4	9	4	...	2	5	4	14
Croup .....	4	4	5	1	1	...	...	15	...
Enteric Fever ...	7	4	5	6	4	5	4	5	7
Epid: Influenza.	5	3	4	3	5	6	6	4	5
Diarrhoea .....	11	29	27	38	73	26	44	35	10
Enteritis .....	18	10	15	13	2	5	11	10	4
Puerperal Fever..	1	3	2	2	...	...	1	1	4
Erysipelas .....	1	1	2	...	...	...	...	...	2
Phthisis .....	69	65	42	62	67	47	68	60	78
Other Tubercular Diseases...	5	6	4	2	2	2	...	3	1
Cancer .....	25	29	28	24	34	35	33	29	32
Bronchitis .....	117	85	86	112	95	118	93	100	110
Pneumonia.....	53	53	39	62	65	65	63	57	60
Pleurisy .....	2	4	2	3	4	2	3	2	6
Other Diseases of Respiratory Org.	19	30	23	9	15	8	12	16	7
Cirrhosis of Liver.	8	5	4	4	7	8	5	5	3
Venereal Diseases	2	5	3	1	2	4	3	2	3
Premature Birth..	22	25	20	20	17	20	30	22	24
Dis: and Accid: of Parturition	1	1	2	2	2	2	2	1	2
Heart Diseases ...	73	75	71	89	75	61	75	74	82
Accidents .....	12	7	9	22	24	16	25	16	16
Suicides .....	3	4	10	4	2	6	3	4	6
All other causes...	337	352	323	311	276	319	363	325	315
All Causes .....	842	886	773	827	788	822	876	830	835

## CAUSES OF, AND AGES AT, DEATH DURING YEAR 1909.

## ASHTON-UNDER-LYNE.

CAUSES OF DEATH	Deaths in or belonging to whole District at subjoined Ages							Deaths in or belonging to Localities (at all Ages).							Total Deaths in Public Institutions in the District. 16
	All ages	Under 1.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and upwards.	St. Peter's Ward.	Portland Ward.	Place Ward.	Market Ward.	St. Michael's Ward.	Union Workhouse.	District Infirmary.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
Smallpox .....	25	10	14	1	..	..	..	10	5	8	2	..	..	..	2
Measles .....	11	1	5	5	..	..	..	..	..	4	6	..	..	1	1
Scarlet Fever .....	8	5	3	..	..	..	..	4	..	3	1	..	..	..	..
Whooping Cough .....	14	1	4	8	..	1	..	3	3	6	2	..	..	..	..
Diphtheria (including Membranous Group) .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Croup .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Typhus .....	7	..	..	1	3	3	..	2	2	3	..	..	..	..	1
Fever { Enteric .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Other continued .....	5	..	1	..	..	4	..	1	1	2	1	..	..	..	..
Epidemic Influenza ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cholera .....	..	6	4	..	..	..	..	3	4	2	1	..	..	..	..
Diarrhoea .....	10	4	4	..	..	..	..	1	2	2	..	1	..	..	..
Enteritis .....	4	..	..	..	..	..	..	2	1	3	..	..	..	..	..
Gastritis .....	6	2	1	1	..	2	..	2	1	3	..	1	1	..	2
Puerperal Fever .....	4	..	..	..	1	3	..	1	..	1	..	1	..	..	..
Erysipelas .....	2	..	..	..	1	1	..	1	..	1	..	..	..	..	..
Phthisis (Pulmonary) .....	78	9	..	1	12	51	5	15	23	12	15	12	1	..	25
Tuberculosis) .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Other Tuberculous Diseases .....	1	..	..	1	..	..	..	1	..	..	..	..	..	..	..
Cancer, Malignant Disease .....	32	..	..	..	..	22	10	9	2	13	4	2	2	..	23
Bronchitis .....	110	20	12	..	..	37	41	28	26	30	13	12	1	..	36
Pneumonia .....	60	16	14	2	5	20	3	14	11	20	9	4	1	1	11
Pleurisy .....	6	..	..	1	..	4	1	3	..	2	1	..	..	..	..
Other Diseases of Respiratory Organs .....	7	3	1	..	..	2	1	2	2	1	2	..	..	..	..
Alcoholism .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cirrhosis of Liver ..	3	..	..	..	..	3	..	1	..	2	..	2	..	..	1
Venereal Diseases .....	3	2	..	..	..	1	..	..	..	1	..	..	..	..	3
Premature Birth .....	24	24	..	..	..	..	..	9	..	11	4	..	..	..	1
Diseases and Accidents of Parturition .....	2	..	..	2	..	2	..	1	..	1	..	15	..	..	..
Heart Diseases .....	82	2	..	2	6	50	22	18	14	21	14	3	5	..	37
Accidents .....	16	1	3	1	..	8	3	4	1	3	3	..	..	..	15
Suicides .....	6	..	..	..	..	6	..	1	3	1	1	..	..	..	..
All other causes .....	309	74	24	5	10	91	105	96	44	94	26	37	12	..	154
All causes .....	835	176	90	29	38	311	131	230	144	245	105	86	23	2	313

## SECTION I. (7).

CAUSES OF DEATH REGISTERED IN EACH OF THE SEVEN YEARS  
1902—1908, IN 1909, AND THE AVERAGE SEPTENNIAL NUMBER.

	1902	1903	1904	1905	1906	1907	1908	Average	1909
Smallpox .....	...	2	9	...	...	...	...	1	...
Measles .....	15	49	10	12	14	30	3	19	25
Scarlet Fever.....	14	2	9	7	2	14	4	7	11
Whooping Cough	13	29	10	14	...	21	20	15	8
Diphtheria .....	5	4	9	4	...	2	5	4	14
Croup .....	4	4	5	1	1	...	...	15	...
Enteric Fever ...	7	4	5	6	4	5	4	5	7
Epid: Influenza.	5	3	4	3	5	6	6	4	5
Diarrhoea .....	11	29	27	38	73	26	44	35	10
Enteritis .....	18	10	15	13	2	5	11	10	4
Puerperal Fever..	1	3	2	2	...	...	1	1	4
Erysipelas .....	1	1	2	...	...	...	...	...	2
Phthisis .....	69	65	42	62	67	47	68	60	78
Other Tubercular Diseases...	5	6	4	2	2	2	...	3	1
Cancer .....	25	29	28	24	34	35	33	29	32
Bronchitis .....	117	85	86	112	95	118	93	100	110
Pneumonia.....	53	53	39	62	65	65	63	57	60
Pleurisy .....	2	4	2	3	4	2	3	2	6
Other Diseases of Respiratory Org.	19	30	23	9	15	8	12	16	7
Cirrhosis of Liver.	8	5	4	4	7	8	5	5	3
Venereal Diseases	2	5	3	1	2	4	3	2	3
Premature Birth..	22	25	20	20	17	20	30	22	24
Dis: and Accid: of Parturition	1	1	2	2	2	2	2	1	2
Heart Diseases ...	73	75	71	89	75	61	75	74	82
Accidents .....	12	7	9	22	24	16	25	16	16
Suicides .....	3	4	10	4	2	6	3	4	6
All other causes...	337	352	323	311	276	319	363	325	315
All Causes .....	842	886	773	827	788	822	876	830	835

# INFANTILE MORTALITY DURING THE YEAR 1909.

Deaths from stated Causes in Weeks and Months under One Year of Age.

ASHTON-UNDER-LYNE.

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 One Year
ALL CAUSES	(Certified .....	34	9	6	2	51	18	11	11	5	10	13	4	20	9	11	12	175
	(Uncertified .....	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1
i. Common Infectious Diseases	Small-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Chicken-pox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Measles .....	..	..	..	..	..	1	..	..	..	..	1	1	2	2	2	1	10
	Scarlet Fever .....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1
	Diphtheria: Memb. Croup	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1
ii. Diarrheal Diseases	Whooping Cough ..	..	..	..	..	..	..	1	..	..	..	1	..	1	1	1	..	5
	Diarrhoea, all forms	..	..	..	..	..	..	2	..	..	..	2	..	1	1	..	..	6
	Enteritis, Mucoc-	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	enteritis, enteritis,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Gastro-enteritis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
iii. Wasting Diseases	Gastritis, Gastro-	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	intestinal Catarrh	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	2
	Immature Birth ..	16	4	1	1	1	2	..	..	..	..	..	..	..	..	..	..	24
	Congenital Defects..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1
	Injury at Birth ..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
iv. Tuberculous Diseases	Want of Breast-	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
	milk, Starvation	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Atrophy, Debility.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Marasmus	5	2	2	1	10	5	..	3	..	..	1	..	..	1	2	1	23
	Tuberculous	..	..	..	..	..	..	..	1	1	1	..	..	1	..	..	2	6
v. Other Causes	Meningitis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Tuberculous Per-	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	itonitis: Tabes	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Mesenterica	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Other Tuberculous Diseases	..	..	..	..	..	..	..	..	..	..	..	..	2	..	1	..	3
v. Other Causes	Erysipelas .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Syphilis .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Rickets .....	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	2
	Meningitis (not Tuberculous)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Convulsions .....	5	2	..	..	7	5	1	3	1	3	..	..	1	..	1	..	2
v. Other Causes	Bronchitis .....	..	..	..	..	..	4	3	1	1	4	3	..	2	1	..	1	22
	Laryngitis .....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1
	Pneumonia .....	..	..	..	..	..	..	..	..	..	..	3	1	4	3	1	8	20
	Suffocation, overlying	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	2
	Other Causes .....	6	..	2	..	8	1	1	2	2	1	2	2	4	..	2	2	16
Total .....		35	9	6	2	52	18	11	11	5	10	13	4	20	9	11	12	176

Population estimated to middle of 1909 46,225.

Births in the year—legitimate, 991; illegitimate, 78.

Deaths from all Causes at all ages, 835.

## RATE OF INFANT MORTALITY FOR THE LAST TWENTY YEARS.

YEAR..	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909
RATE..	175-0	168-0	206-0	206-0	160-4	229-5	169-6	228-3	195-3	223-9	181-8	182-2	142-5	199-8	172-0	179-2	152-5	156-9	183-3	164-6

УШЕЛОН-ДИДЕВ-ГАИБ.

## SECTION I. (8).

**Mortality from Special Diseases.—Diminution and Excess.**—The following table shows the greater or less fatality of disease in 1909, as compared with their simple septennial average numbers in the Borough :—

Cause of Death.	Diminution in 1909.	Excess in 1909.
Measles .....	—	6
Scarlet Fever .....	—	4
Whooping Cough .....	7	—
Diphtheria .....	—	10
Enteric Fever .....	—	2
Diarrhœa .....	25	—
Enteritis .....	6	—
Puerperal Fever .....	—	3
Phthisis .....	—	18
Cancer .....	—	3
Bronchitis .....	—	10
Pneumonia .....	—	3
Other Respiratory Diseases.	9	—
Cirrhosis of Liver .....	2	—
Premature Birth .....	—	2
Heart Diseases .....	—	8
Suicides .....	—	2
All other causes .....	10	—
	—	—
	59	71
	—	—
Balance of Excess .....	12	

## DEATHS.

## SECTION I. (9).

The monthly death rate was as follows:—

January .....	19·3	No. of Deaths, 249 Rate for Quarter, 21·8
February .....	23·9	
March .....	22·4	
April .....	25·2	No. of Deaths, 223 Rate for Quarter, 19·3
May .....	17·0	
June .....	15·7	
July .....	14·5	No. of Deaths, 168 Rate for Quarter, 14·4
August .....	12·2	
September .....	16·5	
October .....	14·2	No. of Deaths, 192 Rate for Quarter, 16·4
November .....	17·3	
December .....	17·8	

## SECTION I. (10).

Death rate in each ward for each quarter and for the year:—

Ward	Popula- tion.	Deaths	Quarters				Average
			First	Second	Third	Fourth	
St. Peter's .....	14768	227	21·6	15·4	9·8	14·5	15·3
Portland Place ...	8718	144	14·0	20·1	15·0	16·6	16·5
Market .....	14985	245	22·4	17·0	11·8	13·9	16·3
St. Michael's .....	6634	105	19·9	19·3	9·4	14·2	15·8
			19·5	17·9	11·5	14·8	15·9

SECTION II.

INFECTIOUS DISEASES.



## SECTION II.

## INFECTIOUS DISEASES.

The total number of cases of Infectious Diseases notified to the Health Department under the Infectious Diseases Notification Act for the year 1909 was 388, which is 100 more than in the previous year, and also 51 above the average for the preceding five years. There were 261 cases of scarlet fever, 30 of diphtheria, and 54 of enteric fever.

The death rate from the seven zymotics for the year was 1·7 per 1,000, compared with 1·7 in 1908, 2·0 in 1907, 1·8 in 1906.

The corresponding death rate for the 143 smaller towns was 1·08.

## ZYMOTIC DEATH RATE IN WARDS.

St. Peter's	Portland	Market	St. Michael's
1·6	1·6	1·8	1·8

Particulars as to sickness from the non-notifiable infectious diseases cannot be given, but the particulars of mortality are as follows:—

Phthisis...	...	...	...	78 deaths.
Other Tubercular Diseases	...	1	„	
Measles...	...	...	25	„
Whooping Cough	...	...	8	„
Diarrhœa	...	...	10	„
Influenza	...	...	5	„

This shows a marked increase in the deaths from measles when compared with the figures for 1908, and a decrease in whooping cough and diarrhœa.

The highest number of deaths in any one week was 7, which occurred in the week ending May 23rd.

**Small Pox.**—No cases of small pox were notified during the year.

**Vaccination.**—The returns for 1909 are not yet obtainable. For 1908, out of 1,226 births, 334 were vaccinated, or 28·06 per cent; 431 obtained certificates as conscientious objectors.

**Scarlet Fever.**—There were 261 cases of scarlet fever notified during 1909, as against 224 in 1908 and 290 in 1907. The attack rate is 5·6 per 1,000, as compared with 4·8 for the preceding year.

Ages.	Cases.	Deaths.	
		Total.	Percentage.
Under 1 year.....	5 .....	1 .....	20·0
1 to 5 years.....	61 .....	5 .....	8 0
5 to 15 ,, .....	156 .....	5 .....	8·0
15 to 25 ,, .....	25 .....	0 .....	3·2
25 to 65 ,, .....	14 .....	0 .....	0
Over 65 ,, .....	0 .....	0 .....	0
	—	—	—
Totals.....	261	11	4·2

There were 11 deaths, giving a mortality rate of 4·2 per cent of the cases, or 0·2 per 1,000 of the population. The cases were most numerous in the month of October, when there were 37 notifications, and fewest in April, when there were 14 notifications.

In respect of age, 14·9 per cent of the cases were over 15 years of age, 59·7 per cent between 5 and 15, and 25·2 per cent under 5 years of age. The mortality was 9·0 per cent under 5 years of age and 2·5 per cent in those over 5 years of age.

In the Hospital for Infectious Diseases there were treated during the year 28 cases from houses in the borough, 3 cases from the District Infirmary, 6 cases from the Workhouse, and 1 case from Stalybridge. There were 2 deaths in this number.

A few overlooked cases have been discovered by information given by school teachers. These have been visited by me, and duly notified.

**Diphtheria.**—There were 30 cases of diphtheria notified during 1909, compared with 14 in 1908.

There were 14 deaths registered from diphtheria, giving a death rate of 46 per cent of those attacked, compared with a death rate of 35·7 per cent in 1908.

Ages.	Cases.	Deaths.	
		Total.	Percentage.
Under 1 year.....	1 .....	1 .....	100·0
1 to 5 years.....	9 .....	4 .....	44·4
5 to 15 ,, .....	15 .....	8 .....	53·3
15 to 25 ,, .....	2 .....	0 .....	0
25 to 65 ,, .....	3 .....	1 .....	33·3
65 and over.....	0 .....	0 .....	0
Totals.....		14	46·6

With regard to age, 15 cases, or 50·0 per cent, were between 5 and 15 years of age, with a mortality of 53·3 per cent, and 10 cases, or 33·3 per cent, were under 5 years of age, with a mortality of 50·0 per cent.

The attack rate from diphtheria is 0·6 per 1·000 of the population. The patients are all treated in their own homes, as we have no hospital accommodation for this disease.

The cases of diphtheria occurred chiefly in two small epidemics at the east end of the borough. The first child in each died within three days of being present in school. In neither of these could the cause be discovered. The school children of the classes they had attended were examined by me, the pencils destroyed, drinking cups boiled, and the rooms cleansed and disinfected. Several children reported absent were visited by me, and three found to be suffering from diphtheria, although not under medical care.

On April 28th the following resolution was passed by your Committee : " That the examination of morbid products, where necessary, be done in future through the Medical Officer of Health, by sanction of the Chairman of the Committee." And at the end of the year this further resolution : " Antitoxin be supplied free of charge for cases of diphtheria when patients are unable to pay.

**Enteric or Typhoid Fever.**—There were 54 cases of enteric fever notified during 1909, compared with 30 cases in 1908, and 17 cases in 1907. This gives an attack rate of 1·1 per 1,000 persons living. Out of the 54 cases 7 died, giving a mortality rate of 12·9 per cent. The cases were most numerous in the age period 25 to 65, the number (26) being 48·1 per cent of the total cases.

Ages.	Cases.	Deaths.	
		Total.	Percentage.
Under 1 year .....	0 .....	0 .....	0
1 to 5 years.....	1 .....	0 .....	0
5 to 15 ,, .....	10 .....	1 .....	10·0
15 to 25 ,, .....	17 .....	3 .....	17·6
25 to 65 ,, .....	26 .....	3 .....	11·5
65 and over.....	0 .....	0 .....	0
	—	—	—
Total .....	54	7	12·9

There were 2 cases removed to the Oldham Fever Hospital and 2 removed to the Borough Hospital. The remainder were treated at home.

In view of the prevalence of typhoid fever I presented two reports on the matter to the monthly meeting of your Committee. I inspected myself all the houses where cases occurred, in addition to the visits of the Sanitary Inspector. The drains generally seemed in good order. In many of the waste water closets dried faeces were adhering to the inside of the pedestals. In four instances sanitary defects were found to exist. In eight cases there was a history of the patient having eaten mussels within a comparative short time of the illness. With a view to finding out whether mussels sold in the Borough are contaminated, samples were bought in three places and sent to the Public Health Laboratory for examination. Upon these Professor Delépine reported that *Bacillus Coli* was found in  $\frac{1}{1000}$ th part of a mussel in samples I. and II. and in  $\frac{1}{100}$ th part of a mussel in sample III.

It appears probable, therefore, that the eating of polluted mussels was the cause in several instances.

**Puerperal Fever.**—There were five cases of this disease notified during the year.

There were 1,069 births during the year, so that the attack rate was .004 per cent.

Of these cases 4 died, giving a mortality of 80 per cent.

**Erysipelas.**—There were 38 cases of erysipelas during the year.

**Measles.**—There were 25 deaths from measles during the year, giving a death rate of 0.54 per 1,000 living. The rate for 1908 was 0.06, and for 1907 0.66.

An arrangement was made during the year by which the school teachers should notify the Medical Officer of Health of any cases of measles, mumps, chicken pox, and whooping cough coming to their knowledge. This information has already been found of considerable use.

**Whooping Cough.**—There were 8 deaths from whooping cough during the year 1909, 2 males and 6 females, all of which occurred among children under five years of age. The death rate was thus 0·1 per 1,000 of the population. In 1908 there were 20 deaths, or a death rate of ·4 per 1,000.

**Diarrhœa.**—There were 10 deaths from diarrhœa, against 44 deaths in 1908, and 21 deaths in 1907. The death rate for the borough was 0·2.

**Phthisis.**—There were 78 deaths during the year, 46 males, 32 females, giving a death rate of 1·6 per 1,000 of population.

PHTHISIS DEATH RATE IN WARDS.

	St. Peter's.	Portland	Market.	St. Michael's
Number of Deaths .....	15	23	12	15
Death Rate .....	1·0	2·6	0·8	2·2

In the Infirmary died 1 and in the Workhouse 12 belonging to Ashton. There was one death from other tubercular disease.

On January 1st of the year the Order for the Regulation of Tuberculosis came into force, under which the Poor Law Medical Officers notify to your department all cases of paupers suffering from consumption whether in the Workhouse or in houses in the borough.

I took the opportunity of presenting to you a report upon the whole subject. From this report I extract the following :—

Year,	No. of Deaths.	Death Rate per 1000 living	Percentage of Total Number of Deaths from all diseases.
1899	87	...	9.2
1900	69	...	7.6
1901	79	1.8	9.6
1902	69	1.5	8.2
1903	65	1.4	7.3
1904	42	.9	5.4
1905	62	1.4	7.5
1906	67	1.5	8.5
1907	47	1.0	5.7
1908	68	1.5	7.7
1909	78	1.6	9.3

The above figures show that during the decennium 1899-1908 the deaths from phthisis amount to rather more than 7 per cent of the deaths from all diseases. During these years there have been 655 deaths from phthisis alone, or an average of 65 per annum. If this represents the deaths, there must be a very much larger number suffering from the disease, with all its attendant distress, loss of working power, and risk of infection to others.

#### OTHER TUBERCULAR DISEASES THAN CONSUMPTION.

1899...	...	10	.....	1904...	...	4
1900...	...	10	.....	1905...	...	2
1901...	...	12	.....	1906...	...	2
1902...	...	5	.....	1907...	...	2
1903...	...	6	.....	1908...	...	5
				1909...	...	1

The question of treatment I considered under the three headings :—

(a) The recent recommendations of the Medical Officer of the Local Government Board.

(b) The plan adopted in Manchester.

(c) Some suggestions for use in Ashton.

(i.) The use, if possible, of voluntary notification by the doctor in suitable cases.

(ii.) That cases so notified be visited first by the Medical Officer of Health, who would advise as to the disinfection of rooms, avoidance of spitting, etc.

(iii.) Further visits to be made by the Health Visitors once a month. They would give a leaflet of advice and personal explanations.

(iv.) The disinfection of the room walls by dough or fluid disinfectant, moist cleaning of furniture and woodwork, limewashing where required. The cleansing to be carried out as far as possible by the tenant, under the supervision of the Sanitary Inspector. Any further disinfection to be done by the Sanitary Department. This is to be done every three months. The same disinfection and cleansing to be carried out in all rooms so soon as it is known that they have been vacated by a phthisical person, and in all cases where a death has occurred.

- (v.) The suspending of a printed notice in reference to spitting in workshops, public-houses, and common lodging-houses.

This report was considered at the end of the year, and it was resolved :—

That the recommendations therein be approved, and that a fee of 2s. 6d. be paid to the medical men in the borough for each voluntary report of phthisis.

Under the Public Health (Tuberculosis) Regulations during 1909 there have been notified :—

42	cases	on	form	A
10	„	„	„	B
7	„	„	„	C

I have myself visited the cases notified under form B, and the scheme above mentioned is now being brought into action.

**Tuberculosis in Milk.**—Six samples of milk were submitted to Professor Delépine for examination for tuberculosis during the year, which were obtained from cowsheds in the borough.

One sample of milk obtained from a cowshed in the borough was found to be tuberculous. The cattle were inspected by Mr. New, Veterinary Surgeon to the Corporation, who found one of the cows suffering from well marked tuberculosis. It was slaughtered, found unfit for food, and destroyed.

## MEASURES TAKEN TO PREVENT THE SPREAD OF INFECTIOUS DISEASES.

**Isolation.**—Out of the total cases of infectious disease notified during the year 41 cases, or 10 per cent, were removed to the Borough Hospital, and there isolated.

**Disinfection.**—Our present method of disinfecting rooms is mainly by sulphur fumigation ; also, though only to a slight extent, by fumigation with tablets of formalin. We possess no steam disinfectors for clothing and bedding.

During the year two schools have been disinfected with Izal spray for scarlet fever and diphtheria. Two spraying machines have been obtained by the Education Department for use in the schools.

Library Books from infected homes are disinfected by sulphur fumigation.

**Borough Isolation Hospital.**—In March, 1909, a new Matron, Miss Wilks, was appointed. The patients here are under the care of the Medical Officer of Health. The remainder of the staff consists of a charge nurse, a general servant and a porter.

There are two wards, containing 8 beds each. During the year 39 cases of scarlet fever were admitted, and 2 cases of enteric fever. There were two deaths from scarlet fever.

SECTION II. (1).

ASHTON-UNDER-LYNE.

CASES OF INFECTIOUS DISEASE NOTIFIED DURING THE YEAR 1909.

NOTIFIABLE DISEASE.	CASES NOTIFIED IN WHOLE DISTRICT.						TOTAL CASES NOTIFIED IN EACH LOCALITY.						No. OF CASES REMOVED TO HOSPITAL FROM EACH LOCALITY.						Total Cases removed to Hospital	
	At all Ages.	At Ages—Years.					St. Peter's Ward.	Portland Ward.	Market Ward.	H St. Michael's Ward.	Union Workhouse.	District Infirmary.	St Peter's Ward.	Portland Ward.	Market Ward.	St. Michael's Ward.	Union Workhouse.	District Infirmary.		Outside Districts.
		Under 1	1 to 5	5 to 15	15 to 25	25 to 65														
Smallpox																				
Cholera																				
Diphtheria																				
Memb. Croup	30	1	9	15	2	3	5	4	12	9										
Erysipelas	38		2	2	6	26	5	3	13	4	13									
Scarlet Fever	261	5	61	156	25	14	71	33	99	51	7		7	12	4	8	6	3	2	42
Typhus Fever																				
Enteric Fever	54	1	10	17	26		21	11	20	1	1		1		3					4
Relapsing Fever																				
Continued Fever																				
Puerperal Fever	5				1	4	2		1											
Plague																				
Totals	388	6	73	183	51	73	104	51	145	65	22	1	8	12	7	8	6	3	2	46

H.—Hospital at Ashton. W.—Workhouse at Ashton.

Isolation Hospital, Borough Hospital, Joint Smallpox Board.

3 of the Scarlet Fevers were removed to Oldham.

2 of the Enteric Fevers

Total available beds—28. Number of Diseases that can be concurrently treated—1.

## SECTION II. (2).

NUMBER OF DEATHS IN EACH WARD  
FROM INFECTIOUS DISEASES.

ST. PETER'S WARD.

NAME OF STREET	Smallpox	Scarlatina	Diphtheria	Erysipelas	Enteric or Typhoid Fever	Puerperal Fever	Doubtful Fevers	Measles	Whooping Cough	Diarrhoea and Dysentery	Totals
Birch street .....	..	..	..	..	1	..	..	..	..	..	1
Blandford street.	..	..	..	1	..	..	..	..	..	..	1
Brook street.....	..	..	..	..	..	..	..	3	..	..	3
Cambridge street	..	..	..	..	..	..	..	..	..	1	1
Cavendish street	..	..	..	..	..	..	..	..	..	1	1
Cotton street ...	..	..	..	..	..	..	..	1	1	..	2
Crowthorn road..	..	..	1	..	..	..	..	..	..	..	1
Dale street .....	..	..	..	..	..	1	..	..	..	..	1
Durban street...	..	..	..	..	..	..	..	..	1	..	1
Earle street.....	..	..	..	..	..	..	..	1	..	..	1
Fitzroy street ...	..	..	2	..	..	..	..	..	..	..	2
Marlborough street .....	..	..	..	..	..	..	..	1	..	..	1
Newman street..	..	..	..	..	..	..	..	..	1	..	1
North street.....	..	..	..	..	..	..	..	1	..	..	1
Portland street...	..	..	..	..	..	..	..	..	..	1	1
Pottinger street..	..	..	..	..	..	..	..	1	1	..	2
Ryecroft street...	..	..	..	..	1	..	..	..	..	..	1
Uxbridge street..	..	..	..	..	..	..	..	1	..	..	1
Wellington road.	..	..	..	..	..	..	..	1	..	..	1
Totals.....	..	..	3	1	2	1	..	10	4	3	24

## SECTION II. (3).

*No. of Deaths in each Ward from Infectious Diseases.*

## PORTLAND PLACE WARD.

NAME OF STREET	Smallpox	Scariatina	Diphtheria	Erysipelas	Enteric or Typhoid Fever	Puerperal Fever	Doubtful Fevers	Measles	Whooping Cough	Diarrhoea and Dysentery	Totals
Back Mount street .....	...	...	...	...	...	...	...	...	...	1	1
Bank street .....	...	...	...	...	...	...	...	...	...	1	1
Bentinck street...	...	...	...	...	...	...	...	1	...	...	1
Cavendish street.	...	...	1	...	...	...	...	...	...	...	1
Charles street ...	...	...	...	...	...	...	...	1	...	...	1
Ellison street ...	...	...	1	...	...	...	...	...	...	...	1
Fleet street .....	...	...	...	...	...	...	...	1	...	...	1
Higher Wharf street .....	...	...	...	...	1	...	...	1	...	...	2
Hill street.....	...	...	...	...	...	...	...	...	...	2	2
John street .....	...	...	1	...	1	...	...	...	...	...	2
Wheat street ...	...	...	...	...	...	...	...	1	...	...	1
Totals.....	...	...	3	...	2	...	...	5	...	4	14

## SECTION II. (4).

*No. of Deaths in each Ward from Infectious Diseases.*

## MARKET WARD.

NAME OF STREET	Smallpox	Scarlatina	Diphtheria	Erysipelas	Enteric or Typhoid Fever	Puerperal Fever	Doubtful Fevers	Measles	Whooping Cough	Diarrhoea and Dysentery	Totals
Albemarle street.	...	...	...	1	...	...	...	...	...	...	1
Alexandra street	...	...	...	...	...	...	...	...	...	1	1
Boodle street ...	...	...	...	...	...	...	...	1	...	...	1
Duke street .....	...	...	...	...	...	...	...	...	1	...	1
Duncan street ...	...	...	...	...	...	...	...	...	...	1	1
Enville street ...	...	...	...	...	...	...	...	...	1	...	1
Fletcher street...	...	...	...	...	1	...	...	...	...	...	1
Gosford street...	...	...	...	...	...	...	...	1	...	...	1
Jersey street.....	...	...	1	...	...	...	...	...	...	...	1
Mount Pleasant street .....	...	...	...	...	...	...	...	1	...	...	1
Old street.....	...	1	...	...	1	...	...	...	...	...	2
Orange street ...	...	2	...	...	...	...	...	...	...	...	2
Peel street .....	...	...	...	...	...	...	...	1	...	...	1
Pitt street.....	...	...	...	...	...	...	...	...	1	...	1
Princess street...	...	...	1	...	...	1	...	...	...	...	2
Raynham street.	...	...	3	...	1	...	...	...	...	...	4
Romney street...	...	1	...	...	...	...	...	...	...	...	1
Rook street .....	...	...	...	...	...	...	...	1	...	...	1
Swindells street..	...	...	...	...	...	...	...	1	...	...	1
Turner lane .....	...	...	1	...	...	...	...	...	...	...	1
Union street.....	...	...	...	...	...	...	...	1	...	...	1
Wild Street .....	...	...	...	...	...	...	...	1	...	...	1
Totals.....	...	4	6	1	3	1	...	8	3	2	28

## SECTION II. (5).

*No. of Deaths in each Ward from Infectious Diseases.*

## ST. MICHAEL'S WARD.

NAME OF STREET	Smallpox	Scarlatina	Diphtheria	Erysipelas	Enteric or Typhoid Fever	Puerperal Fever	Doubtful Fevers	Measles	Whooping Cough	Diarrhoea and Dysentery	Totals
Audley street ...	...	...	1	...	...	...	...	1	...	...	2
Caroline street...	...	1	...	...	...	...	...	...	...	...	1
Church street ...	...	3	...	...	...	...	...	...	...	...	3
Grenville terrace	...	...	...	...	...	...	...	...	1	...	1
Queen street.....	...	...	...	...	...	...	...	1	...	...	1
Rutland street...	...	...	1	...	...	...	...	...	...	1	2
St. James street.	...	2	...	...	...	...	...	...	...	...	2
Totals.....	...	6	2	...	...	...	...	2	1	1	12

## SECTION II. (6).

## UNION WORKHOUSE.

Zymotic Deaths belonging to the Borough

	Smallpox	Scarlatina	Diphtheria	Erysipelas	Enteric or Typhoid Fever	Puerperal Fever	Doubtful Fever	Measles	Whooping Cough	Diarrhoea and Dysentery	Totals
Totals.....	...	...	...	...	...	1	...	...	...	...	1

## DISTRICT INFIRMARY

Zymotic Diseases belonging to the Borough

Totals.....	...	...	...	...	...	1	...	...	...	...	1
-------------	-----	-----	-----	-----	-----	---	-----	-----	-----	-----	---

## BOROUGH HOSPITAL

Zymotic Deaths belonging to the Borough.

Totals.....	...	1	...	...	...	...	...	...	...	...	1
-------------	-----	---	-----	-----	-----	-----	-----	-----	-----	-----	---

## TOTAL FOR THE YEAR.

Totals.....	...	11	14	2	7	4	...	25	8	10	81
-------------	-----	----	----	---	---	---	-----	----	---	----	----

## SECTION II. (7).

Shows the number of Zymotic Deaths as they occurred  
monthly :—

	Erysi- pelas.	Small- pox.	Measles.	Scarlet Fever.	Diarr- hoea.	Diph- theria.	Whoop- ing Cough.	Fevers							
January .....	0	...	0	...	1	...	1	...	0	...	2	...	0	...	2
February .....	0	...	0	...	2	...	0	...	0	...	0	...	2	...	2
March.....	0	...	0	...	11	...	2	...	1	...	0	...	0	...	1
April .....	0	...	0	...	5	...	0	...	1	...	1	...	1	...	3
May .....	1	...	0	...	4	...	2	...	1	...	4	...	1	...	0
June .....	0	...	0	...	2	...	1	...	0	...	2	...	0	...	2
July .....	1	...	0	...	0	...	2	...	1	...	1	...	0	...	1
August .....	0	...	0	...	0	...	0	...	1	...	1	...	0	...	0
September....	0	...	0	...	0	...	2	...	3	...	0	...	2	...	0
October .....	0	...	0	...	0	...	1	...	1	...	0	...	1	...	0
November .....	0	...	0	...	0	...	0	...	1	...	1	...	1	...	0
December .....	0	...	0	...	0	...	0	...	0	...	2	...	0	...	0
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	2	0	25	11	10	14	8	11							

SECTION III.

GENERAL WORK

OF THE

SANITARY DEPARTMENT.



THE SANITARY INSPECTOR'S REPORT  
FOR THE  
YEAR ENDING 31ST DECEMBER, 1909.

---

TOWN HALL CHAMBERS,  
ASHTON-UNDER-LYNE,  
*February, 1910.*

TO THE CHAIRMAN AND MEMBERS  
OF THE HEALTH COMMITTEE.

Gentlemen,

I have the honour and pleasure of laying before you for your consideration my Annual Report on the operations of the Health Department for the year ending December 31st, 1909.

# SUMMARY OF WORK DONE

DURING THE YEAR 1909.

---

Number of Nusiances reported.....	2720
"            "    abated .....	2681
Preliminary notices and letters served with respect to nuisances .....	491
Letters and circulars served ( <i>re</i> other matters) .....	823
Statutory notices served.....	175
Verbal notices given .....	247
Number of notices sent to schools and parents, <i>re</i> the isolation of children for infectious diseases.	555
Persons summoned for offences under the Public Health and Food and Drug Acts .....	5
Number of visits to premises with respect to defective drainage, etc. ....	243
"            "    overcrowded, dirty, damp and insanitary houses.....	63
"            "    lodging-houses, furnished rooms and dwelling-vans .....	315

Number of visits to slaughter-houses and bakehouses..	344
"    "    cowsbeds, milkshops, refreshment houses and ice cream makers...	307
"    "    factory and workshops .....	185
"    "    offensive trades .....	42
"    "    houses on account of infectious disease .....	981
"    "    premises where work is in progress and for purpose of ascertaining if notices have been complied with .....	413
Total number of houses and premises inspected.....	2893
Houses disinfected after infectious disease .....	327
Cases removed to hospital.....	44
Number of drains tested.....	41
Smoke observations taken .....	207
Samples taken under Food and Drugs Act.....	104
"    for bacteriological examination .....	18

It must be remembered that many nuisances are frequently included under one notice, and therefore the number of nuisances represent considerably more than the number of notices.

## REMOVAL OF NUISANCES.

The following table shows the nature of the Nuisances and work carried out after service of notices and letters:—

Nature of Nuisance.	No. of Nuisances and Defects Remedied.
Houses repaired, <i>re</i> walls, floors and roofs .....	27
„ limewashed and cleansed.....	11
„ damp houses remedied and rendered dry .....	4
„ closed as unfit for human habitation .....	17
Single houses converted into double houses .....	3
Cases of overcrowding remedied .....	4
Defective slop-sinks and waste pipes .....	36
„ soil pipes repaired aud renewed .....	3
„ rain-water pipes repaired and renewed .....	45
„ ventilating shafts .....	6
„ water closets .....	37
„ yard and surface drains .....	132
„ main drains and inspection chambers .....	34
„ cellar drains .....	9
„ drainage, not specified above .....	49
„ and insanitary manure pits.....	17
„ tippers of waste water closets renewed or repaired.....	680
Made-up waste water closets opened and cleansed ...	1273
Water removed from cellars .....	7
Offensive accumulations removed.....	6
Stagnant water removed .....	3
Street gullies blocked and opened .....	29
Insanitary and overloaded ash-tubs.....	31

Back yards flagged or repaired.....	13
„ passages cleansed .....	11
Common yards and passages flagged, paved and channelled.....	3
Ash-tub recesses without doors or want of repair.....	9
Premises from which fowls and animals have been removed .....	6
Nuisances from keeping of swine removed .....	3
Insanitary privy and pail closets abolished.....	127
Additional water closets provided.....	2
Insufficient ventilation.....	4
Workshops limewashed.....	5
Other miscellaneous nuisances not specified above ...	79

## CLOSET CONVERSIONS AND INSPECTION OF WASTE WATER CLOSETS.

The work of converting the old and insanitary privy and pail closets are now almost completed.

During the year 127 town's water closets have been substituted for privy and pail closets, waste water closets have been provided to new houses only.

The Council have endeavoured to assist the owners by keeping the waste water closets under regular inspection, thereby making the tenants realise their responsibility and take reasonable care of same.

To effect this 48,719 inspections have been made during the twelve months, out of which 1,953 were found to be out of order, viz.:—1,273 traps being made up, and 680 defective tippers.

1,354 closets were put in order by the inspector, and 599 reported to the owners.

During the course of inspection a number of surface gullies and inspection chambers were found to be blocked, many of these were cleared and freed from obstruction, notices being served where required for immediate opening and cleansing of the drains, etc.

The following table shows the number of closets requiring conversion in the four wards of the Borough :—

Ward.	Privy Closets	Pail Closets.	Total.
St. Peter's .....	2	0	2
Portland Place .....	20	6	26
Market .....	4	3	7
St. Michael's .....	4	29	33
	<hr/> 30	<hr/> 38	<hr/> 68

#### COMMON LODGING-HOUSES, HOUSES LET IN LODGINGS AND DWELLING-VANS.

There are seven registered common lodging-houses in the Borough, having accommodation nightly for 570 lodgers.

Throughout the year frequent inspections have been made, they have generally been found in a satisfactory condition. The

necessary limewashing, etc., has been carried out at the specified times, and no cases of infectious disease have been notified from these houses.

The largest lodging-house has accommodation for 317 persons and is entirely for males.

During the year several inspections have been made by the Health Committee to the above houses, resulting in one house being condemned as unfit for habitation and it is now closed.

**Houses Let in Lodgings.** Little improvement has been effected in these houses, which are chiefly small cottage houses consisting of four rooms. They are sub-let to one or more families. Several of the houses are in an unsatisfactory condition and are unsuitable for the purpose.

**Dwelling-Vans.** 147 vans used as dwellings which have entered the town to attend the various fairs, have been inspected to ascertain their sanitary condition, and also for the purpose of detecting any infectious disease which might exist among the dwellers. The general condition of the vans was satisfactory, and no infectious disease was found to exist among the occupiers.

## SLAUGHTER HOUSES AND INSPECTION OF MEAT, ETC.

There are 23 registered slaughter houses in use in the Borough; of this number only one is subject to the renewal of the license annually, as required by the Public Health Act, Amendment Act, 1890.

They have been regularly visited during the year. With few exceptions these premises are kept in a cleanly condition, and it has not been necessary to issue notices for any very serious defects, although many of them are far from fulfilling the requirements of the Local Government Board Bye-Laws.

A report was submitted to the Health Committee by the Medical Officer of Health relative to the condition of the slaughter houses within the Borough urging the necessity for the adoption of model bye-laws for the regulation of such premises.

The Committee, after considering the report, resolved that the suggestions of the Medical Officer of Health be approved, and that the necessary steps be taken for the adoption of the Model Bye-Laws issued by the Local Government Board in regard to slaughter houses.

Dr. New, the Meat Inspector for the Borough, reports the results of his inspections during the year.

It is now the almost invariable custom of the butchers on finding a diseased carcase to send at once for the Inspector, and submit the same to him before the carcase is prepared for sale, with the result that the carcase of one bullock and two pigs were condemned and destroyed at the destructor, otherwise the meat, fish, rabbits, etc., sold in the Market Hall and shops of Borough have been very good, and without complaint of any kind.

## BAKEHOUSES.

Taking the bakehouses generally, there is now a considerable improvement in them in the matter of cleanliness, and there has not been much cause for complaint during the year.

The periodically limewashing required by the Act has been duly carried out by the majority, and in the case of one or two exceptions notices have been served upon the occupiers to secure compliance with the Act. There are six underground bakehouses in existence, all of which have received a certificate of their fitness for use for the purpose, in accordance with section 101 of the Factory and Workshop Act, 1901.

## ICE CREAM MAKERS AND VENDORS.

The premises in which the manufacturing of ice cream is carried on have been visited during the year, and on the whole there has been some improvement in regard to the conditions and cleanliness of the surroundings. Some have been cautioned, but there has been no serious complaint during the year, and no case of infectious disease has been discovered among those connected with the business.

## DAIRIES, COWSHEDS AND MILKSHOPS.

The usual inspection of these places has been carried out and are with one or two exceptions fairly well kept, verbal notices have been given with regard to limewashing, cleansing of premises and utensils; also to protecting the milk against contamination.

There are six cowsheds in the Borough, all are more or less defective as regards structure, air-space, light, ventilation and

drainage, other defects are want of cleanliness generally in connection with the business. With regard to the numerous milkshops the majority of these are unsuitable for the purpose, they are small shops where all sorts of mixed goods are exposed for sale.

### CONTAGIOUS DISEASES (ANIMALS).

During the past year the Borough has been free from any outbreak of contagious disease.

### FACTORIES AND WORKSHOPS.

Considerable attention has been paid during the year to the administration of the Factory and Workshop Act of 1901. A number of improvements have been made in connection with the sanitary conveniences in the Factories. The Workshops have been supervised as well as possible, and on the whole there was not much fault to find in the manner in which they were kept.

Frequent inspections have also been made for the purpose of inspecting work in progress, and ascertaining if notices have been complied with. Several Factories and Workshops were also visited as the result of notices received from H.M. Inspector of Factories.

The work done under this head will be found in detail on page 75.

### OFFENSIVE TRADES.

The premises whereon offensive trades are conducted have been frequently inspected, and were generally found in a satisfactory condition.

Complaints of effluvium nuisances were alleged to arise from works situate in the west end of the Borough. A number of inspections and observations were made, and of which a lengthy report was submitted to the Health Committee.

### SALE OF FOOD AND DRUGS ACT.

There were 104 samples of food and drugs analysed during the year. This is 2·21 samples of food and drugs per 1,000 of the population, as compared with 100 samples, or 2·18 per 1,000 population, for the previous year.

One sample of water taken from a spring at Heys Cottage was also submitted for analysis, which was found after careful analysis to be polluted with organic matter of animal origin. The owners of the premises were communicated with, and steps are being taken to provide a constant supply of town's water.

With regard to the administration of the Acts, the Local Government Board Report says, "The work of detecting offenders is becoming more difficult every year, and efficient sampling cannot be carried on by the Inspectors without the employment of agents (women and children, men in disguise, and so on)."

In a further report the Board draws attention to a proved fact that chance customers in a shop are usually served with the genuine article, and only when the agent has become known as a regular customer has he or she been served with margarine instead of butter, for instance.

The practice of purchasing samples without going through

the formalities required by the Acts is also recommended as a means of discovering offenders against the Act.

The following table shows the kind of samples and number of each dealt with together with the result of the analysis :—

Articles submitted for Analysis	Number of samples	RESULT OF ANALYSIS	
		Genuine	Adulterated.
Milk .....	47	45	2
Butter .....	14	12	2
Margarine.....	3	0	3
Cheese .....	2	2	0
Whisky .....	6	6	0
Liquorice powder	2	2	0
Baking powder...	2	2	0
Cream tartar ...	2	2	0
Tartaric acid.....	2	2	0
Citric acid.....	2	2	0
Ground ginger...	2	2	0
Pearl Barley.....	2	2	0
Camphorated oil	2	2	0
Malt vinegar.....	2	2	0
Tincture rhubarb	2	2	0
Flowers of sulphur	2	2	0
Ground almonds	2	2	0
Cayenne pepper	2	2	0
Mustard.....	2	2	0
White pepper ...	2	2	0
Olive oil.....	2	2	0
Totals .....	<u>104</u>	<u>97</u>	<u>7</u>

Two samples of butter contained excess water. The vendors, however, were protected by the printed declaration placed on the butter, and also stamped on the wrappers containing the samples.

Three samples of margarine were not labelled, and were supplied in plain wrappers contrary to the Act.

The percentage of adulteration was 6·7, against 8·0 during the previous year.

Legal proceedings under the Sale of Food and Drugs Act during the year :—

Articles	No of Cases.	Adulteration.	Amount of fines.			Total Amount of fines.		
			£	s.	d.	£	s.	d.
Milk.....	1	3% added water	2	12	0	...		
Do.....	1	10½% added water	4	11	0	...		
Margarine.	1	unmarked	2	6	6	14	2	6
Do. ...	1	do.	2	6	6	...		
Do. ...	1	do.	2	6	6	...		

The above fines include Analyst Fee, Advocates Fee, and Court Fees.

#### SAMPLES SUBMITTED FOR BACTERIOLOGICAL EXAMINATION.

Four samples of ice cream, three samples of water, eight samples of new milk, and three samples of mussels were submitted to Professor Delepine for bacteriological examination.

He reports that one sample of ice cream contained an excessive amount of bacteria. The dealer was warned as to the

impurity of the cream, and instructed to exercise greater care in cleanliness in its manufacture.

Reports as to the results of the examination of the samples of milk and mussels are to be found in the report of the Medical Officer of Health.

### INSANITARY PROPERTY.

During the year reports have been presented to the Health Committee, to the effect that the following properties were in such a state as to be unfit for human habitation, viz.:—

- 3 and 4, Chapel Yard.
- 1, 3, 5, 7, Hibbert's Yard.
- 2 and 4, do.
- 5, Percy Street.
- 34, 36, 38, 40, Warrington Street.
- 46 and 67, Old Street.
- 1 (The Mount), off Cowper Street.
- 1 (Rectory Lodge), Mossley Road.

It was resolved that notice be served on the owners requiring them to put the houses in a proper state of repair within the time specified, failing which a closing order would be applied for.

Seven of the above houses are now closed, three have been demolished, and seven are undergoing the necessary repairs to render them fit for habitation.

## SMOKE NUISANCE.

During the past year 208 observations have been taken of mill and workshop chimneys within the Borough.

40 observations have been taken for a period of 4 hours, and 168 observations of 30 minutes duration.

11 firms have exceeded the limit allowed for the emission of black smoke. These were reported to the Health Committee as their first offence, with the result that the usual statutory notice to abate was served upon the firms offending.

The average number of minutes black smoke emitted from the chimneys during the time of observation, has been 2 minutes, 16 seconds.

The following table shows the number of observations taken, names of firms, and number of boilers working.

Name of Firm.	Address.	No. of Boilers Working	No. of Observations taken	Average No. of minutes of Dense Smoke emitted
Andrew, J. & Co. ....	Warrington St.....	1	7	Nil
Ashworth, C. & Co. ...	Birch St. ....	1	6	3.0
Barker, J. ....	Crowthorn.....	1	6	0.3
Buckley, A. & Co. ....	Lodge St.(Old Mill)	2	7	1.2
Buckley, A. & Co. ....	„ (New „ )	2	7	1.0
Cavendish Spin'g Co...	Cavendish St. ....	3	7	1.4
Fletcher, J. & Sons ...	Britannia St.....	2	7	0.1
Fletcher Bros. ....	Cavendish St. ....	1	2	Nil
Fletcher Bros. ....	Dean St. ....	1	1	Nil
Gartsides, J. & Co.....	Whitelands Rd.....	5	6	2.1

*Smoke Nuisance Observations—contd.*

Gartsides Limited.....	Brookside Brewery.	2	...	7	...	3.3
Goddard, J.....	Wellington Rd.....	1	...	1	...	Nil
Guidebridge Spin'g Co. Ltd. ....	South St. ....	6	...	7	...	2.4
Hallam, Thos. ....	Delamere St.....	1	...	7	...	1.4
Harper Twist Co.Ltd..	Mossley Rd. ....	2	...	4	...	3.0
Heap, Joshua & Co. ...	Boodle St.....	1	...	5	...	0.1
Heap, William & Co...	Wellington Rd.....	1	...	4	...	0.2
Heginbottom, S. & Sons Ltd. ....	Whittington St.....	5	...	5	...	4.1
Hill, J. & Sons .....	Smith St.....	2 ovens & 1 boiler		2	...	1.4
Hulme Bros. ....	Lees St.....	1	...	7	...	1.1
Kenworthy, J.H. & Son.	Hill St. ....	2	...	4	...	2.3
Kershaw, J. & Co.....	South St. ....	3	...	4	...	3.1
Knott, J. & Sons .....	Lower Wharf St....	2	...	7	...	0.3
Lees & Knott Ltd.....	Grosvenor St.....	2	...	4	...	1.2
Mason, T. & Sons .....	Oxford St.....	4	...	4	...	Nil
Mayor, Aldermen, & Burgesses .....	Baths.....	1	...	1	...	0.3
Mayor, Aldermen, & Burgesses .....	Electricity Works...	5	...	5	...	0.1
Minerva Spinning Co..	Minerva St. ....	4	...	6	...	0.1
National Gas Engine..	Wellington Rd.....	1	...	1	...	Nil
New Moss Colliery Co.	Manchester Rd. (Brick Chimney)	9	...	7	...	2.5
New Moss Colliery Co.	Manchester Rd. (Iron Chimney)..	4	...	2	...	0.1
Reyners Ltd.....	Lower Wharf St....	3	...	6	...	0.5
Reyners Ltd.....	Cavendish St. ....	4	...	7	...	1.4

*Smoke Nuisance Observations—contd.*

Ridyard, J.....	Lord St.....	1	...	2	...	Nil
Ruttenau, W. & Co. ...	Bentinck St.....	1	...	2	...	1·1
Ryecroft Mills Co.Ltd.	Smith St. ....	2	...	5	...	2·1
Schofield & Co. ....	Park St.....	1	...	1	...	2·0
Schofield, T. & Son ...	Bentinck St.....	1	...	1	...	Nil
Shaw, T. & Son Ltd. and Brushes Ltd..	Warre St.....	2	...	6	...	1·0
Tame Valley Thread Mill.....	Algernon St.....	1	...	4	...	1·0
Texas Mill Co Ltd. ...	Texas St. ....	4	...	5	...	0·1
Tudor Mill Co Ltd. ...	Portland St .....	4	...	6	...	1·4
Waterside Mill Co.....	Waterside Ring Mill	3	...	2	...	1·1
Waterside Mill Co.....	Waterside Weaving Mill .....	3	...	3	...	2·1
Webster, J. W. & T....	Yorkshire St.....	1	..	1	...	Nil
Whiteland Twist Co...	Whitelands Rd.....	6	...	7	...	1·5

## UNCERTIFIED DEATHS AND INQUESTS.

Uncertified deaths are those where no certificates of death by a qualified Medical Practitioner or by a Coroner is received, but where the statement of the informant as to the cause of death is accepted by the Registrar. The uncertified deaths numbered 11, particulars of which are appended in the following table :—

## UNCERTIFIED DEATHS.

Age.	Sex.	Probable Cause of Death.
10 hours...	M. ....	Premature Birth.
41 years ...	F. ....	Heart Failure.
12 „ ...	F. ....	„
61 „ ...	M. ....	Cerebral Haemorrhage.
45 „ ...	M. ....	Bronchitis.
39 „ ...	M. ....	„
53 „ ...	F. ....	Apoplexy.
3 months..	M. ....	Convulsions.
70 years ...	M. ....	Cerebral Haemorrhage.
59 „ ...	M. ....	Heart Disease.
61 „ ...	M. ....	„

**Inquests.**—During the year there were 51 inquests of persons belonging to the Borough. The verdicts of juries as to cause of death are herewith recorded.

## INQUESTS.

## Cause of Death.

Accidentally Suffocated .....	1
Epileptic Fit .....	1
Pneumonia .....	4
Syncope .....	5
Burns.....	5
Bronchitis .....	4
Convulsions .....	2
Epilepsy.....	1
Fracture of Skull .....	2
Scalds.....	2

## INQUESTS.

## Cause of Death.

Natural Causes .....	2
Tetanus .....	1
Inflammation of Lungs .....	1
Wounds in Throat (Suicide) .....	1
Senile Decay.....	1
Premature Birth .....	1
Meningitis .....	1
Hanging (Suicide) .....	3
Hernia .....	1
Septicaemia .....	1
Asphyxia .....	3
Drowning (Suicide) .....	2
Found Drowned .....	1
Injuries to Head .....	2
Injuries (Run over by Cart).....	1
Injuries (Killed by Tram Car).....	1
Injuries (Killed on Railway).....	1
	—
	51

## THE MAYOR'S INFANTILE MORTALITY FUND.

The Mayor (Councillor Pollitt), having been impressed with the importance of infant life, and with the object of bringing the question more forcibly to the notice of the public, announced that he would give £1 to each of the first hundred infants born in the Borough, provided they attain the age of one year.

Soon after the registration of the first hundred notified,

Promissory Notes were prepared for each one, and on attaining the age of twelve months, and having fulfilled the conditions of the scheme, duly received the sovereign offered by Councillor Pollitt.

In order to observe the conditions under which these children were being nursed and fed, visits were paid to the homes from which notifications of births were received, both by members of the Ladies' Health Society and the Official Health Visitors, Miss Crawford and Miss Moores. I am informed that the visits paid by the Lady Visitors and Official Health Visitors have been remarkably appreciated by the mothers, who feel that an interest is being taken in their welfare, and it has also had the effect in many cases of making them more cleanly in their homes and in the care of their children, which I believe has been the means of reducing to some extent the death rate of infants, especially in Portland Place Ward, as in the past year only forty deaths occurred in this Ward, which is the lowest number of deaths under one year ever recorded.

150 infants were registered for the above fund, viz.:—87 males and 63 females. 17 died before attaining the age of 12 months; 23 removed from the Borough soon after registration; and 10 were notified too late to fill any vacancy rendered by death or removal.

The 17 deaths calculated on the 150 registered, gives a rate of 113·3 per 1,000, seeing that these infants belong entirely to the working classes, this must be considered a very satisfactory death rate.

The following table shows the Births, Deaths and Removals in Wards.

	St. Peter's		Portland Place		Market	St. Michael's		Totals
Births.....	40	...	46	...	44	...	20	150
Deaths ...	7	...	3	...	6	...	1	17
Removals..	7	...	7	...	6	...	3	23

The following tables show the deaths under one year in the various streets of the four wards of the borough :—

#### ST. PETER'S WARD.

Back Portland street...	1	Kenyon street.....	2
Bennett street .....	1	Layard street.....	1
Bentinck street .....	3	Margaret street .....	1
Birch street .....	1	Moss street.....	6
Brook street .....	2	Newman street .....	1
Cavendish street.....	2	North street .....	2
Clifton street .....	1	Old street .....	2
Cotton street .....	4	Portland street .....	2
Dale street .....	2	Trafalgar street.....	2
Dean street.....	1	Uxbridge street .....	1
Earle street.....	2	Wellington street .....	1
Hodgson street .....	1	Wood street .....	1
Katherine street.....	3		
Keane street .....	1		—
Kelvin street .....	2	Total .....	49

## PORTLAND PLACE WARD.

**Section 1.**

Bentinck street .....	2	Hill street .....	3
Charles street.....	8	Park street.....	1
Fleet street.....	2	Portland street .....	1

**Section 2.**

Arthur street .....	1	Gerrard street.....	1
Bank Mount street.....	2	Mount street .....	1
Charles street.....	2	Park street.....	2
Ellison street .....	3	Wheat street .....	1

**Section 3.**

Bank street.....	1	Stanley street.....	2
Headfield street .....	1	Victoria street .....	1
Higher Wharf stree t...	1	Whittington street.....	2
John street.....	1		

**Section 4.**

Ann street .....	1
	—
Total .....	40

In reference to the four sections comprising Portland Place Ward, their boundaries and area are herewith defined.

Section 1—which is bounded on the north by Stamford street, on the east by Mill lane, on the south by Hill street, and on the west by Welbeck street, and comprises the streets and parts of streets within the said boundary, and contains an area of 16 acres.

Section 2—which is bounded on the north by Stockport road, on the east by Welbeck street, on the south by Victoria

street, and on the west by 'Trafalgar square, and comprises the streets and parts of streets within the said boundary, and contains an area of 20 acres.

Section 3—which is bounded on the north by Hill street and Victoria street, on the east by Cavendish street, on the south by the river Tame, and on the west by William street, and comprises the streets and parts of streets within the said boundary, and contains an area of 32 acres.

Section 4—which is bounded on the north by Victoria street and Stockport road, on the east by William street, on the south by the river Tame, and on the west by Guide lane, and comprises the streets and parts of streets within the said boundary, and contains an area of 111 acres.



## MARKET WARD.

Alfred street .....	1	Old street .....	2
Alexandra street.....	7	Orange street.....	1
Arlies street .....	1	Pitt street .....	3
Back Holden street ...	1	Pot Yard lane .....	1
Beauchamp street .....	1	Raynham street.....	1
Belk street .....	1	Robinson street .....	2
Boodle street .....	2	Rock street.....	1
Canterbury street .....	2	Spring street .....	1
Duncan street.....	3	Suffolk street... ..	2
Egerton street .....	1	Tatton street .....	2
Elgin street ... ..	2	Turner lane .....	1
Enville street.....	1	Union street .....	1
Fletcher street ... ..	1	Warrington street.....	2
Glebe street.....	1	Water street .....	1
Gosford street.....	1	Wellington street .....	2
Holden street.....	2	Whiteacre road .....	3
Jackson street.....	1	Wood street .....	1
Katherine street.....	3	York street.....	3
Leam street .....	2		
Melbourne street .....	1		—
Minto street .....	1	Total.....	66

## ST. MICHAEL'S WARD.

Abingdon street.....	1	Mill lane.....	1
Chadwick street.....	1	Montague street.....	2
Church street.....	1	Mossley road .....	1
Delamere street .....	1	St. James street.....	1
England street .....	1	Stamford street .....	1
Grenville Terrace .....	1	Whitelands road .....	1
Higher Wharf street ...	1		—
Mellor road.....	1	Total.....	15
Union Workhouse .....	4	District Infirmary.....	2

Of the above 176 deaths 98 were males and 78 females.

Rate of Infant Mortality measured by the proportion of deaths  
under one year to Births, in Months and Wards.

Month	St. Peter's.	Portland Place.	Market.	St. Michael's.	Average.
January .....	120·0 ...	117·6 ...	103·4 ...	166·6 ...	126·9
February .....	162·1 ...	200·0 ...	250·0 ...	444·4 ...	264·1
March .....	160·0 ...	66·6 ...	233·3 ...	105·2 ...	141·1
April.....	80·0 ...	130·4 ...	178·5 ...	384·6 ...	190·8
May .....	250·0 ...	272·7 ...	181·8 ...	000·0 ...	196·1
June .....	115·3 ...	52·6 ...	166·6 ...	100·0 ...	108·6
July .....	47·6 ...	142·6 ...	76·9 ...	000·0 ...	66·7
August.....	166·6 ...	000·0 ...	76·9 ...	000·0 ...	60·8
September ...	130·4 ...	428·5 ...	266·6 ...	000·0 ...	206·3
October.....	263·1 ...	291·6 ...	200·0 ...	000·0 ...	188·6
November.....	347·8 ...	166·6 ...	312·5 ...	400·0 ...	306·7
December.....	96·7 ...	142·8 ...	187·5 ...	000·0 ...	106·7
Average ...	161·6 ...	167·6 ...	186·1 ...	133·4 ...	163·6

Rate of Mortality in Children under five years of age in  
Months and Wards.

Month.	St. Peter's.	Portland Place.	Market	St. Michaels.	Average.
January .....	6.3	2.6	4.6	3.4	4.2
February .....	7.9	7.4	6.9	5.8	7.0
March .....	8.7	5.3	11.7	8.7	8.6
April .....	4.0	8.3	5.6	14.6	8.1
May.....	4.7	12.0	6.2	0.0	5.7
June .....	2.4	2.7	5.6	3.6	3.5
July.....	2.3	6.6	5.4	3.4	4.4
August .....	3.9	1.2	2.3	0.0	1.8
September .....	2.4	8.3	7.2	0.0	4.4
October .....	5.5	10.7	4.6	1.6	5.6
November .....	9.0	5.5	8.0	9.0	7.8
December .....	3.9	5.3	4.6	0.0	3.4
Average...	5.1	6.3	6.0	4.1	5.3

The Rate of mortality in children under five years of age per  
1000 for the past seven years :—

Wards	1903	1904	1905	1906	1907	1908	1909
St. Peter's .....	7.1	5.3	6.7	4.5	6.3	5.2	5.1
Portland Place ...	9.9	8.2	8.4	7.7	9.0	10.4	6.4
Market .....	8.1	6.8	5.7	5.6	6.2	6.5	6.1
St. Michael's .....	6.4	4.6	4.9	3.0	4.5	4.2	4.2
	7.8	6.2	6.4	5.2	6.5	6.5	5.4

## SECTION II. (7).

TABLE 7.

NOTIFICATION OF INFECTIOUS DISEASES  
from January 1st to December 31st, 1909.

Month.	Membranous Croup.	Smallpox.	Scarlet Fever.	Enteric Fever.	Puerperal Fever.	Continued Fever.	Diphtheria.	Erysipelas.	Total.
January .....			17	10			3	3	33
February ...			23	7			1	4	35
March .....			31	9	2		1	2	45
April .....			14	6			4	3	27
May .....			26	4			9	4	43
June .....			23	4			5	6	38
July .....			23	1	3		1	2	30
August .....			15	2			2	1	20
September ...			18	1			1	4	24
October .....			37	7				2	46
November ...			19	2			1	2	24
December ...			15	1			2	5	23
			261	54	5		30	38	388

## SECTION II. (8).

Rate of Mortality per 1000 of the population from  
Zymotic Diseases in Months and Wards

Month	St. Peter's.	Portland Place.	Market.	St. Michael's	Average
January .....	0·7	1·2	2·3	1·6	1·4
February.....	3·5	0·0	0·8	1·9	1·5
March.....	4·7	1·2	5·4	1·6	3·2
April .....	2·4	4·1	2·4	3·6	3·1
May.....	2·3	4·0	3·8	3·4	3·3
June .....	0·8	2·7	0·8	5·4	2·4
July.....	0·7	0·0	2·3	3·4	1·6
August .....	1·5	0·0	0·0	0·0	0·3
September .....	0·0	4·1	2·4	1·8	2·0
October .....	0·7	1·2	0·0	1·6	0·8
November .....	1·6	0·0	0·0	1·8	0·8
December .....	0·0	0·0	1·5	0·0	0·3
Average ...	4·7	4·6	5·4	6·5	5·1

Rate of mortality per 1,000 of the population from the principal Zymotic Diseases in Wards:—

Ward.	First Quarter.	Second Quarter.	Third Quarter.	Fourth Quarter.	Year.
St. Peter's .....	2·9	1·8	0·7	0·7	1·5
Portland Place ...	0·8	3·6	1·3	0·4	1·5
Market .....	2·8	2·3	1·5	0·5	1·7
St. Michael's.....	1·7	4·1	1·7	1·1	2·1
	2·0	2·9	1·3	0·6	1·7

## SECTION II. (9).

Shows the death rate from the seven principal Zymotic Diseases (Wards and Hospitals) :—

	First Quarter.	Second Quarter.	Third Quarter.	Fourth Quarter.	Year.
Smallpox .....	0·000 ...	0·000 ...	0·000 ...	0·000 ...	0·000
Measles.....	1·211 ...	0·951 ...	0·000 ...	0·000 ...	0·540
Scarlatina.....	0·259 ...	0·259 ...	0·324 ...	0·064 ...	0·226
Diphtheria .....	0·173 ...	0·605 ...	0·151 ...	0·237 ...	0·291
Whooping Cough	0·173 ...	0·173 ...	0·151 ...	0·151 ...	0·162
Fevers .....	0·432 ...	0·519 ...	0·151 ...	0·000 ...	0·275
Diarrhœa .....	0·086 ...	0·173 ...	0·411 ...	0·151 ...	0·205
	<hr/> 2·334	<hr/> 2·680	<hr/> 1·188	<hr/> 0·603	<hr/> 1·699

## SECTION II. (10).

The following tables shows the number, and disease notified, in Streets and Wards :—

## ST. PETER'S WARD.

Name of Street.	Scarlet Fever.	Typhoid Fever.	Diph- theria.	Erysi- pelas.	Puerperal Fever.	Totals
Arch street .....	2	0	0	0	0	2
Birch street .....	2	1	0	1	0	4
Blandford street .....	1	1	0	1	0	3
Buckley street .....	0	1	0	0	0	1
Burlington street.....	1	0	1	0	0	2
Cavendish street.....	7	1	0	0	0	8
Clifton street .....	0	0	0	0	1	1
Cotton street .....	4	2	0	0	0	6
Crowthorn road .....	0	1	1	0	0	2
Dale street .....	1	0	0	0	1	2

ST. PETER'S WARD.—*contd.*

Name of Street.	Scarlet Fever.	Typhoid Fever.	Diph- theria.	Erysi- pelas.	Puerperal Fever.	Totals
Durban street .....	0	0	0	1	0	1
Earle street .....	2	0	0	1	0	3
Fitzroy street .....	4	1	1	0	0	6
Graham street.....	0	0	0	1	0	1
Hamilton street .....	2	0	0	0	0	2
Katherine street .....	5	0	0	0	0	5
Keane street.....	1	1	0	0	0	2
Kelvin street .....	2	3	1	0	0	6
Layard street .....	3	0	0	0	0	3
Marlborough street.....	4	1	0	0	0	5
Moss street .....	7	0	0	0	0	7
Newman street.....	1	3	0	0	0	4
Oldham road .....	1	1	1	0	0	3
Pelham street .....	1	0	0	0	0	1
Pottinger street .....	1	0	0	0	0	1
Richmond street .....	3	0	0	0	0	3
Ryecroft street.....	2	3	0	0	0	5
St. Peter's street.....	3	0	0	0	0	3
Smith street .....	4	0	0	0	0	4
Stamford street .....	2	0	0	0	0	2
Stockport road.....	0	1	0	0	0	1
Trafalgar street .....	5	0	0	0	0	5
Totals .....	71	21	5	5	2	104

## PORTLAND PLACE WARD.

Name of Street.	Scarlet Fever.	Typhoid Fever.	Diph- theria.	Erysi- pelas.	Puerperal Fever.	Totals.
Birch street.....	0	1	0	0	0	1
Bollington street .....	1	2	0	0	0	3
Cavendish street .....	0	0	1	0	0	1
Cecil street .....	1	0	0	0	0	1
Charles street .....	1	0	0	0	0	1
Church street .....	2	1	0	1	0	4
Ellison street ... ..	2	0	1	0	0	3
Higher Wharf street ...	0	1	0	0	0	1
Hill street .....	3	0	0	1	0	4
John street .....	4	0	2	0	0	6
Margaret street .....	1	1	0	0	0	2
Mill lane .....	1	0	0	0	0	1
Mount street .....	3	0	0	0	0	3
Northcote street .....	1	0	0	0	0	1
Oxford street .....	6	1	0	0	0	7
Park street .....	6	1	0	0	0	7
Portugal street.....	0	1	0	0	0	1
Spring Grove terrace ...	0	0	0	1	0	1
Stockport road.....	1	0	0	0	0	1
Victoria street.....	0	2	0	0	0	2
Totals .....	33	11	4	3	0	51

## MARKET WARD.

Name of Street.	Scarlet Fever.	Typhoid Fever.	Diph- theria.	Erysi- pelas.	Puerperal Fever.	Tota
Albemarle street.....	1	0	0	1	0	2
Albion street .....	1	0	0	1	0	2
Alexandra road .....	1	0	0	0	0	1
Alexandra street .....	0	0	0	1	0	1
Arlington street .....	1	0	0	0	0	1
Bengal street .....	0	1	0	0	0	1
Boodle street .....	2	0	0	0	0	2
Botany lane.....	1	0	0	0	0	1
Bradbury street .....	2	0	0	0	0	2
Camp street.....	1	0	0	0	0	1
Canterbury street .....	5	0	0	0	0	5
Chapel street .....	0	2	0	0	0	2
Cotton street .....	1	0	0	0	0	1
Coulthart street .....	0	1	0	0	0	1
Cowper street .....	2	0	0	0	0	2
Cranbrook street.....	2	0	0	0	0	2
Crickets lane .....	1	0	0	0	0	1
Curzon road.....	1	0	0	0	0	1
Dixon street.....	1	0	0	0	0	1
Duncan street .....	1	0	0	0	0	1
Egerton street.....	2	0	0	0	0	2
Elgin street.....	1	0	0	0	0	1
Elizabeth street .....	2	0	0	0	0	2
Fletcher street.....	1	2	0	0	0	3
Gas street.....	0	0	0	1	0	1
Glebe street.....	1	0	0	0	0	1

MARKET WARD.—*contd.*

Name of Street.	Scarlet Fever.	Typhoid Fever.	Diph- theria.	Erysi- pelas.	Puerperal Fever.	Totals
Gosford street .....	7	0	0	1	0	8
Henrietta street .....	1	1	0	0	0	2
Herries street .....	2	0	0	0	0	2
Holden street . ....	1	0	0	2	0	3
Hulme street .....	1	0	0	0	0	1
Jersey street.....	1	0	2	0	0	3
Katherine street .....	4	3	0	0	0	7
Latchford street .....	0	0	0	1	0	1
Leam street.....	1	0	0	0	0	1
Manor street .....	1	0	0	0	0	1
Market street .....	1	0	0	0	0	1
Minto street.....	2	0	0	0	0	2
Newton street .....	0	1	1	0	0	2
Old street.....	4	2	0	0	0	6
Oldham road .....	0	1	0	0	0	1
Orange street .....	2	0	0	0	0	2
Peel street .....	1	0	0	0	0	1
Princess street.....	4	0	1	0	1	6
Ramsden street .....	1	0	0	0	0	1
Raynham street .....	0	2	5	1	0	8
Robinson street .....	1	0	0	1	0	2
Romney street.....	1	0	0	0	0	1
Russell street .....	1	0	0	1	0	2
Sackville street .....	1	0	0	0	0	1
Stanhope street .....	6	0	0	0	0	6
Suffolk street .....	3	2	0	0	0	5

MARKET WARD.—*contd.*

Name of Street,	Scarlet Fever.	Typhoid Fever.	Diph- theria.	Erysi- pelas.	Puerperal Fever.	Totals
Swan street.....	1	0	0	0	0	1
Turner lane.....	1	0	1	0	0	2
Turner street .....	2	0	0	0	0	2
Union street .....	1	0	0	1	0	2
Warre street .....	1	0	0	0	0	1
Wellington road .....	3	0	0	0	0	3
Wellington street .....	6	0	0	0	0	6
Whiteacre road .....	5	0	1	0	0	6
Williamson street .....	0	0	1	0	0	1
Wimpole street .....	0	1	0	0	0	1
Winton street .....	1	0	0	0	0	1
York street .....	0	1	0	0	0	1
Yorkshire street .....	0	0	0	1	0	1
	—	—	—	—	—	—
Totals .....	99	20	12	13	1	145

## ST. MICHAEL'S WARD.

Name of Street.	Scarlet Fever.	Typhoid Fever.	Diph. theria.	Erysi- pelas.	Puerperal Fever	Totals
Alington street .....	2	0	0	0	0	2
Audley street .....	1	0	1	0	0	2
Argyle street .....	2	0	0	0	0	2
Arundel street.....	0	0	1	0	0	1
Bangor street .....	0	0	1	0	0	1
Booth street.....	1	0	0	0	0	1
Caroline street.....	2	0	0	0	0	2
Chadwick street .....	2	0	0	0	0	2
Church street .....	4	0	0	1	0	5
Cobden street .....	1	0	0	0	0	1
Currier lane.....	2	0	0	0	0	2
Curzon road.....	1	0	0	0	0	1
Edward street .....	2	0	0	0	0	2
Fountain street .....	1	0	0	0	0	1
Fraser street.....	1	0	0	0	0	1
Gower street.....	0	0	0	1	0	1
Grafton street .....	2	0	0	0	0	2
Granville street .....	1	0	0	0	0	1
Grenville terrace.....	1	0	0	0	0	1
Grey street .....	0	1	0	0	0	1
Hall street .....	0	0	0	1	0	1
Harper place .....	1	0	0	0	0	1
Mossley road .....	1	0	0	0	0	1
Park square.....	4	0	0	0	0	4
Park street .....	1	0	0	0	0	1
Rutland street.....	0	0	1	0	0	1

ST. MICHAEL'S WARD.—*contd.*

Name of Street.	Scaalet Fever.	Typhoid Fever.	Diph- theria.	Erysi- pelas.	Puerperal Fever.	Totals
Scotland street .....	0	0	0	1	0	1
Stamford square.....	2	0	2	0	0	4
Stamford street .....	3	0	3	0	0	6
St. James' street.....	9	0	0	0	0	9
Whitelands road.....	3	0	0	0	0	3
Wicker gate.....	1	0	0	0	0	1
	—	—	—	—	—	—
Totals .....	51	1	9	4	0	65

Infectious diseases notified in Public Institutions belonging  
to the Borough :—

	Scarlet Fever.	Typhoid Fever.	Diph- theria.	Erysi- sipelas.	Puerperal Fever.	Totals
Union Workhouse .....	7	1	0	13	1	22
District Infirmary .....	0	0	0	0	1	1
	—	—	—	—	—	—
Grand total for the year	261	54	30	38	5	588

# Factories, Workshops, Workplaces, and Homework.

## 1.—INSPECTION.

Including Inspections made by Sanitary Inspectors or Inspector of Nuisances.

Premises.	No. of Inspec- tions.	No. of Written Notices.	No. of Prosec- utions.
Factories (including Factory Laundries) .....	79	9	—
Workshops (including Work- shop Laundries)....	65	9	—
Workplaces .....	41	—	—
	—	—	—
Total .....	185	18	

## 2—DEFECTS FOUND.

Particulars.	Number of Defects.				Number of Prosecu- tions.	
	Found.	Remedied.	Referred to H.M. Inspector.			
<i>Nuisance under the Public Health Acts :—</i>						
Want of cleanliness ...	5	5	—	...	—	—
Want of ventilation ...	—	—	—	...	—	—
Overcrowding.....	—	—	—	...	—	—
Want of drainage of floors .....	—	—	—	...	—	—
Other Nuisances .....	—	—	—	...	—	—
Sanitary accommodation :						
Insufficient .....	1	1	—	...	—	—
Unsuitable or defective	57	47	1	...	—	—
Not separate for sexes..	1	1	—	...	—	—

2—DEFECTS FOUND (*continued*).

Particulars.	Number of Defects.			Number of Prosecutions.		
	Found.	Remedied.	Referred to H.M. Inspector.			
<i>Offences under the Factory and Workshop Act :—</i>						
Illegal occupation of underground bake-houses (s. 101) .....	2	...	1	...	—	...
Breach of special sanitary requirements for bakehouses (ss. 97 to 100) .....	2	...	2	...	—	...
Other offences.....	—	...	—	...	—	...
Total.....	68	...	57	...	1	...

## 3.—HOME WORK.

	Lists.	Number of Outworkers
<i>Outworkers' Lists, Section 107 :—</i>		

Lists received ..... 6 ..... 19

## Addresses of Outworkers :—

Received from other Councils ..... 0

No. of Inspection of Outworkers' premises ..... 38

## 4.—REGISTERED WORKSHOPS.

Class.	Number
Bakers, Confectioners .....	29
Laundry .....	3
Milliners, Dressmakers .....	63
Saddlers .....	5
Underclothing .....	7
Brush Makers .....	4
Plumbers .....	0

4.—REGISTERED WORKSHOPS (*continued*).

Class.	Number
Blacksmiths, Farriers .....	4
Tinplate-workers .....	6
Beer Bottlers .....	5
Tailors .....	13
Bootmakers, Cloggers .....	12
Wheelwrights .....	3
Joiners.....	6
Other Workshops .....	41
Total number of Workshops on Register ...	214

## 5.—OTHER MATTERS.

Class	Number
Matters notified to H.M. Inspector of Factories :—	
Failure to affix Abstract of the Factory and Workshop Act (s. 133) .....	—
Action taken in matters referred by H.M. Inspector as remediable under the Public Health Acts but not under the Factory and Workshop Act (s. 5) :—	
Notified by H.M. Inspector .....	9
Reports (of action taken) sent to H.M. Inspector	9
Other .....	—
Underground Bakehouses (s. 101) :—	
Certificates granted during the year .....	—
In use at the end of the year .....	6

**MUNICIPAL MILK DEPOT.**—The sale of milk shews a marked increase during the year.

The amount of cream purchased was 666 quarts ; in 1908 it was 451 quarts. Of this amount 7220 ounces was used for modified milk, and 1842 ten-ounce bottles have been sold.

### AMOUNT OF MILK USED.

	Quarts	Quarts Sterilised.	Quarts Modified.	Average number of Infants taking Modified Milk.
1903	20936	16736	5468	36
1904	24488	20755	5684	39
1905	27204	22275	5950	42
1906	27036	22006	5480	41
1907	41496	37376	4463	43
1908	44696	40037	5204	44
1909	50128	44532	5776	46

### YEARLY RECEIPTS AND EXPENDITURE.

	Receipts.			Expenditure.		
	£	s.	d.	£	s.	d.
1902	266	3	0	353	3	6
1903	313	13	4	560	5	1
1904	350	8	0	590	9	6
1905	431	8	3	658	5	0
1906	414	4	9	713	11	5
1907	449	5	11	558	11	11
1908	716	16	6	865	6	0

A Gerber Butyrometer has been obtained during the year, for the purpose of testing the amount of butter fat in the milk supplied.

### THE DAY NURSERY, BRADGATE STREET.

“ The Nursery is for children from a fortnight old up to five years old. It has been started so that parents may know that their children are properly cared for during their absence from home. There is a large staff of nurses, and the head nurse has been trained at a Children's Hospital, so is able to give special attention to delicate or backward children. The children are taken out of doors, and it is hoped to have a field for them in the summer. There are large rooms for them to play in. The food is good and plentiful. Three medical men call to see that all is well. No changes need be brought with the children, all they require during the day is provided by the Nursery. All the children have holland overalls to wear during the day, so that their own dresses are clean and dry for them to go home in. Every child has a bath each morning. Children can come sleeping in their blankets, and a mackintosh bag is provided to bring their dry clothes in. Any mother wishing to suckle her baby can come at any time to do so. A comfortable room is provided for mothers, and, if they come in the dinner hour, they can have a hot dinner for twopence if they like.

The Nursery is open from five in the morning to six at night. For parents who have to return by train or tram, and are rather later than six, special arrangements are made.

The charge for children coming from Monday morning to one o'clock on Saturday is four shillings a week. Children coming for any shorter time pay tenpence a day, and sixpence

on Saturday. This charge clears everything, including breakfast, lunch, dinner, and tea for the older children, and all food required for the infants. In the case of those having bottles the milk for their use during the night, and on Sundays, is given free to the parents to take home. No money is made out of the children, all the parents pay for them is spent on them. The Nursery is not a charity, but when full will be self-supporting, and thus kept up by the parents themselves. Any parent will be taken round the Nursery at any time."

This institution was started early in the year by the efforts of Mrs. Sydney Mason and friends. Five cottages and two small shops were taken, and by various alterations adapted to the purpose. During the year admirable work has been done among the children of the working classes. The average number of babies nursed per day has been eighteen. A much larger number have put down their names, sufficient, indeed, to fill the crèche, but the bad state of trade at present prevents them availing themselves of it. Suckling at the breast is encouraged. Where this is not possible Glaxo is used, and has been quite successful. The health of the children during the year has been good.

## Sewage Works.

---

During the year 1909, the twenty-eight first Contact Beds have had all the filtering medium taken out, washed, re-graded, and re-placed, and Naylor's Aerating Tiles have been fixed in the bottom of the beds in place of the old drain pipes. The filtering material consists chiefly of ashes.

The crude Sewage has mixed with it Lime and Ferrozone. After passing through Precipitation Tanks it is treated on two series of Contact Beds. The total amount of dry weather flow is two million gallons.

The Sludge Cake produced during the twelve months was about four thousand tons. A small portion of this Sludge Cake is given away to farmers, who take it away by Canal, for use as agricultural manure. The remainder is tipped on to low lying land on the Sewage Works, for the purpose of raising it, there covered with soil and sown with grass seeds.

## Drinking Water.

Eleven samples were taken from domestic taps, early in the morning, before the water had been drawn off. Two of these gave an acid reaction. In one case there was a trace of lead present.

NUMBER OF DEATHS IN VARIOUS STREETS  
FROM ALL DISEASES.

ST. PETER'S WARD.

Name of street	No. of Deaths	Name of street	No. of Deaths
Albert street	... 1	Fitzroy street	... 5
Back Cambridge street..	1	Grimshaw street	... 1
Back Portland street	... 2	Grosvenor street	... 2
Bennett street	... 5	Hamilton street	... 1
Bentinck street	... 9	Hardwick street	... 1
Birch street	... 4	Hawthorn grove	... 3
Blandford street	... 9	Hindley street	... 2
Brook street	... 9	Hodgson street	... 2
Buckley street	... 2	Katherine street	... 14
Burlington street	... 6	Keane street	... 1
Cambridge street	... 2	Kelvin street	... 8
Cavendish street	... 6	Kenyon street	... 6
Chester square	... 2	Layard street	... 1
Clifton street	... 1	Manchester road	... 2
Cotton street	... 15	Mansfield street	... 2
Crowthorn lane	... 1	Margaret street	... 4
Crowthorn road	... 1	Marlborough street	... 5
Dale street	... 5	Moss street	... 10
Dean street	... 4	Mowbray street	... 1
Durban street	... 2	Newman street	... 5
Earle street	... 5	New Moss Colliery	... 1

ST. PETER'S WARD—*continued.*

Name of street	No. of Deaths	Name of street	No. of Deaths
North street	... 4	Stockport road	... 3
Old street	... 5	Taunton road	... 1
Oldham road	... 1	Trafalgar square	... 1
Portland street	... 4	Trafalgar street	... 7
Portugal street	... 1	Uxbridge street	... 4
Peter street	... 1	Welbeck street	... 4
Pottinger street	... 2	Wellington road	... 3
Richmond street	... 3	Wellington street	... 3
Robinson lane	... 1	Wilkinson street	... 1
Ryecroft street	... 2	Wood street	... 1
South street	... 3		
Stamford street	... 3		
		Total...	227

## PORTLAND PLACE WARD.

Name of street	No. of Deaths	Name of street	No. of Deaths
Ann street	... 1	Headfield street	... 3
Arthur street	... 1	Higher Wharf street	... 4
Back Mount street	... 3	Hill street	... 9
Bank street	... 2	John street	... 7
Beaconsfield street	... 1	Margaret street	... 4
Bentinck street	... 3	Mount street	... 5
Birch street	... 1	Nile street...	... 1
Bollington street	... 2	Oxford street	... 5
Bradgate street	... 4	Park street	... 13
Cambridge street	... 1	Portland street	... 5
Canal	... 2	South street	... 1
Cavendish street	... 1	Stanley street	... 2
Cecil street	... 2	Stockport road	... 3
Charles street	... 19	Victoria street	... 12
Church street	... 6	Welbeck street	... 2
Ellison street	... 5	Wheat street	... 1
Fleet street	... 6	Whittington street	... 2
Gerrard street	... 2	William street	... 2
Guide Bridge Station	... 1	Total...	144

## MARKET WARD.

Name of street	No. of Deaths	Name of street	No. of Deaths
Albemarle street	... 2	Egerton street	... 4
Alexandra street	... 17	Elgin street	... 3
Alexandra road	... 1	Enville street	... 1
Alfred street	... 1	Fletcher street	... 2
Arlies street	... 1	Gas street	... 1
Back Holden street	... 1	Glebe street	... 2
Beauchamp street	... 1	Gosford street	... 3
Belk street	... 1	Henrietta street	... 6
Bengal street	... 4	Holden street	... 8
Boodle street	... 4	Jackson street	... 1
Booth street	... 1	Jermyn street	... 1
Botany lane	... 1	Jersey street	... 3
Bow street	... 1	Junction street	... 1
Camp street	... 3	Katherine street	... 7
Canning street	... 1	Leam street	... 2
Canterbury street	... 4	Lees street	... 2
Cotton street	... 2	Lennox street	... 1
Cowhill lane	... 3	Lord street	... 1
Cowper street	... 1	Manor street	... 1
Crickets lane	... 2	Melbourne street	... 3
Delamere street	... 1	Minto street	... 7
Delamere street North...	2	Mossley road	... 3
Duke street	... 2	Mount Pleasant street...	1
Duncan street	... 6	Mulberry street	... 2

MARKET WARD—*continued.*

Name of street	No. of Deaths	Name of street	No. of Deaths.
Old street	... 10	Tatton street	... 6
Old Cross	... 1	Turner lane	... 5
Oldham road	... 4	Turner street	... 3
Orange street	... 2	Union street	... 7
Peel street	... 2	Warrington street	... 4
Pitt street	... 3	Water street	... 1
Pot Yard lane	... 1	Wellington road	... 5
Princess street	... 7	Wellington street	... 7
Raynham street	... 6	West street	... 2
Ripon street	... 1	Whiteacre road	... 8
Robinson street	... 2	Wild street	... 1
Romney street	... 1	Winton street	... 2
Rook street	... 2	Wood street	... 4
Spring street	... 1	Wrigley street	... 1
Stamford street	... 1	Wych street	... 2
Stanhope street	... 2	York street	... 5
Suffolk street	... 3	Yorkshire street	... 2
Swan street	... 1		
Swindells street	... 1		
		Total...	245

## ST. MICHAEL'S WARD.

Name of street	No. of Deaths	Name of street	No. of Deaths
Abingdon street	... 3	Granville street	... 5
Alington street	... 1	Granville terrace	... 2
Arundel street	... 3	Higher Wharf street	... 1
Athol street	... 1	Mellor road	... 2
Audley street	... 3	Mill lane	... 2
Booth street	... 1	Montague street	... 2
Caroline street	... 1	Mossley road	... 1
Cavendish street	... 1	Park parade	... 1
Chadwick street	... 3	Park square	... 1
Church street	... 10	Parson's yard	... 1
Cobden street	... 1	Queens square	... 1
Conduit street	... 1	Queen street	... 1
Corkland street	... 3	Rutland street	... 2
Crawford street	... 6	Shaw street	... 1
Crawford Terrace	... 1	St. James' street	... 7
Crickets lane	... 1	Stamford square	... 7
Currier lane	... 3	Stamford street	... 10
Curzon road	... 1	Villiers street	... 1
Delamere street	... 2	Whitelands	... 1
England street	... 1	Whitelands road	... 1
Fleet street	... 1	Wigmore street	... 6
Fraser street	... 1	Total...	105

## SUMMARY.

		No. of Deaths.
St. Peter's Ward	...	227
Portland Place Ward...	...	144
Market Ward	...	245
St. Michael's Ward	...	102
Union Workhouse	...	86
District Infirmary	...	23
Borough Hospital	...	2
		<hr/>
Total	...	832

## TABLE C.

SUMMARY OF MEDICAL OFFICER'S REPORT  
FOR 1909.

---

 THE URBAN SANITARY DISTRICT OF ASHTON-UNDER-LYNE.
 

---

Area in Statute Acres, 1,396.

Population (Census) 1901, 43,890.

Population (Estimated) 1909, 46,225.

Name of Medical Officer of Health:—

JOHN WILLIAM TALENT, M.D., D.P.H.      Salary £300.

Births registered—Males, 553; Females, 516; Total, 1069

Deaths registered—Males, 424; Females, 411; Total, 835

Number of Illegitimate Births registered ..... 76

Birth Rate ..... 23·1

Death Rate ..... 18·0

Rate of Infant Deaths, under 1 year, to 1000 Births 164·6

Death Rate from the seven principal epidemic Disease  
per 1000 of population ..... 1·7Diseases prevalent: Scarlet Fever, Diphtheria, Enteric  
Fever.

Period: Throughout the year.

What action taken? None.

Any schools closed? No.

What is the character of the Hospital accommodation?  
Smallpox Hospital Joint, Fever Hospital belongs to Borough.

Is it Joint or otherwise? Joint. No retaining fee.

Number of Beds available for your district? Twelve for Smallpox, sixteen for other Infectious cases.

Number of cases removed? Enteric fever, 4, Scarlet Fever, 40. Total 44.

Deaths in Hospital of patients? 2. 1 from Scarlet Fever, 1 from Pneumonia.

How is disinfection carried out? Houses Sulphur and Formalin; clothing, bedding, &c., by Thresh disinfector, at Smallpox Hospital.

Apparatus used? Mason's Dry and Moist Ovens; Where situated? Borough Hospital.

Number of cases of Infectious Disease notified? 388.

Are any Diseases not specifically mentioned in the Act notifiable (for instance Measles, Whooping Cough, Diarrhoea, Chicken Pox, &c.)? If so, what are they? No.

Has any arrangement been made for the "voluntary" notification of Phthisis? Yes.

Is Diptheritic Anti-Toxin supplied to Medical Practitioners free of charge? Yes.

Action taken under "The Housing of the Working Classes Act." No. of Houses condemned, 17; closed, 7; demolished, 3; made habitable, 7.

From where is the Water Supply obtained? What is its condition? Water supply good. Is it subject to your inspection? No.

Is Scavenging carried out satisfactorily? Yes. How performed: By sanitary Authority, Contract, or Occupiers of Houses? Sanitary Authority.

How is the Refuse disposed of? By Destructor. Has a Destructor been provided? Yes.

What is the character of Drainage and the form of Sewage Disposal? All sewage is drained to the Sewage Disposal Works, where it undergoes treatment by precipitation and filtration by contact beds. The sludge is pressed into cakes.

Canal Boats, number Inspected? Number of infringements of Act? No Depot.

What is the condition of the Bakehouses? Good.

Slaughter Houses? Fairly satisfactory. Has a Public Abattoir been provided? No.

Lodging Houses? Much improved during the year. Are they registered? Yes.

What is the sanitary condition of the Schools? Satisfactory.

Dairies, Cowsheds, and Milkshops—Are they periodically inspected? Yes. What is their condition? Fair. Have Regulations been made under the Order of the L.G.B.? Yes. Are they enforced? As far as possible. Amount of air space in cubic feet required for each cow? Average 500 feet.

No. of Cowkeepers? No. on Register? 6.

No. of Dairymen or Purveyors of Milk (other than Cow-keepers)? No. on Register? 106.

Food unfit for Human Consumption—Amount seized?  
1 bullock and 2 pigs.

Department of Inspector of Nuisances: No. of notices served? 666. Nuisances remedied? 2631. No. of Legal Proceedings taken and result? 2 Both ordered to abate nuisance and pay costs.

Closet accommodation of the district: No. of Privy Middens? 30. Pail Closets? 38. Fresh Water Closets? 2977. Waste Water Closets? 7990. No. of Privy Middens converted during 1909? to W.C.'s 127.

Smoke: No. of Observations? 207, No. of Legal Proceedings and result? 2 To abate the nuisance and pay costs. What is the time limit allowed for the emission of black smoke per hour? 4 minutes.

Has the Authority adopted "The Infectious Disease (Prevention) Act, 1890"? Yes. "The Public Health Acts Amendment Act, 1907"? No. "The Public Health Acts Amendment Act, 1890"? Yes. "The Notification of Births Act, 1907"? Yes.

Has a Health Visitor been appointed? Yes.

Chief Sanitary requirements of District: Hospital accommodation for other diseases than Smallpox. Steam pressure disinfectors to be erected at the Town's yard.

The usual Tables required by the Local Government Board and the County Council are annexed to this report.

I desire to acknowledge the assistance rendered me by Mr. J. Davies, also for the manner in which the duties have been carried out, which duties in the department are yearly increasing both by Sanitary Improvements in the Borough, and also by the new Acts coming into force.

I express my thanks to the Chairman and Members of the Health Committee for the support which they have accorded to me in my work.

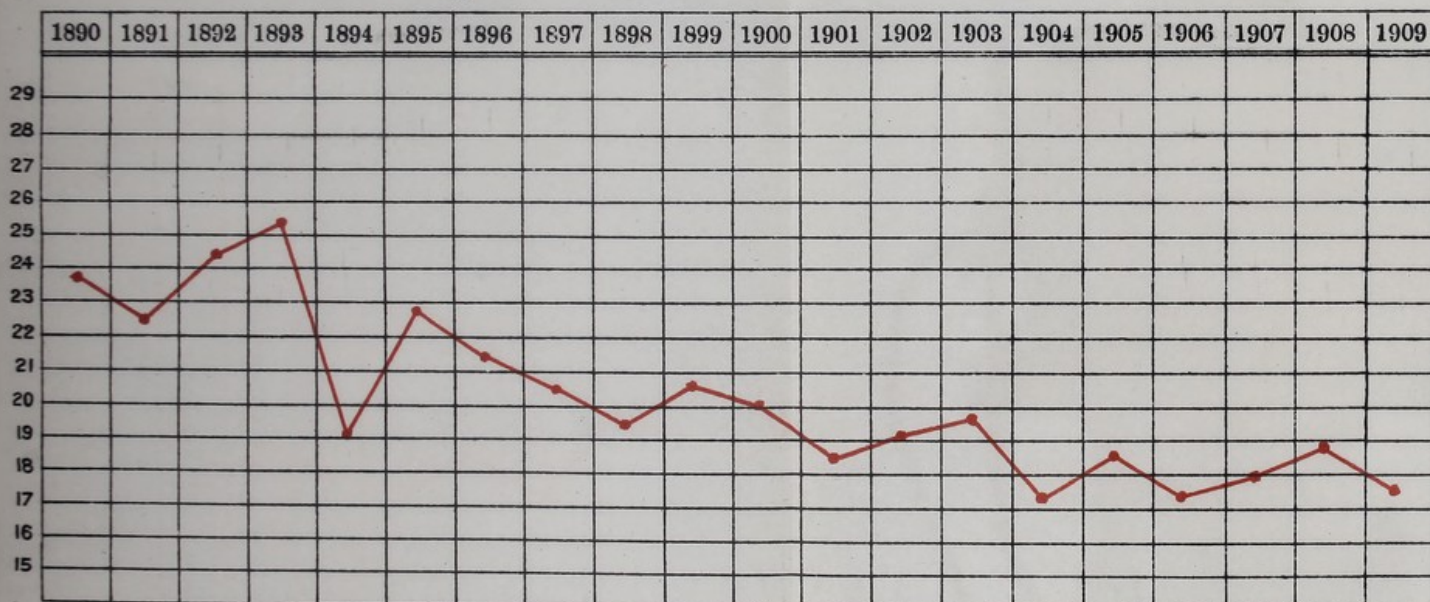
I am, your obedient Servant,

WILLIAM C. MORRIS,

*Chief Sanitary Inspector and  
Health Superintendent.*

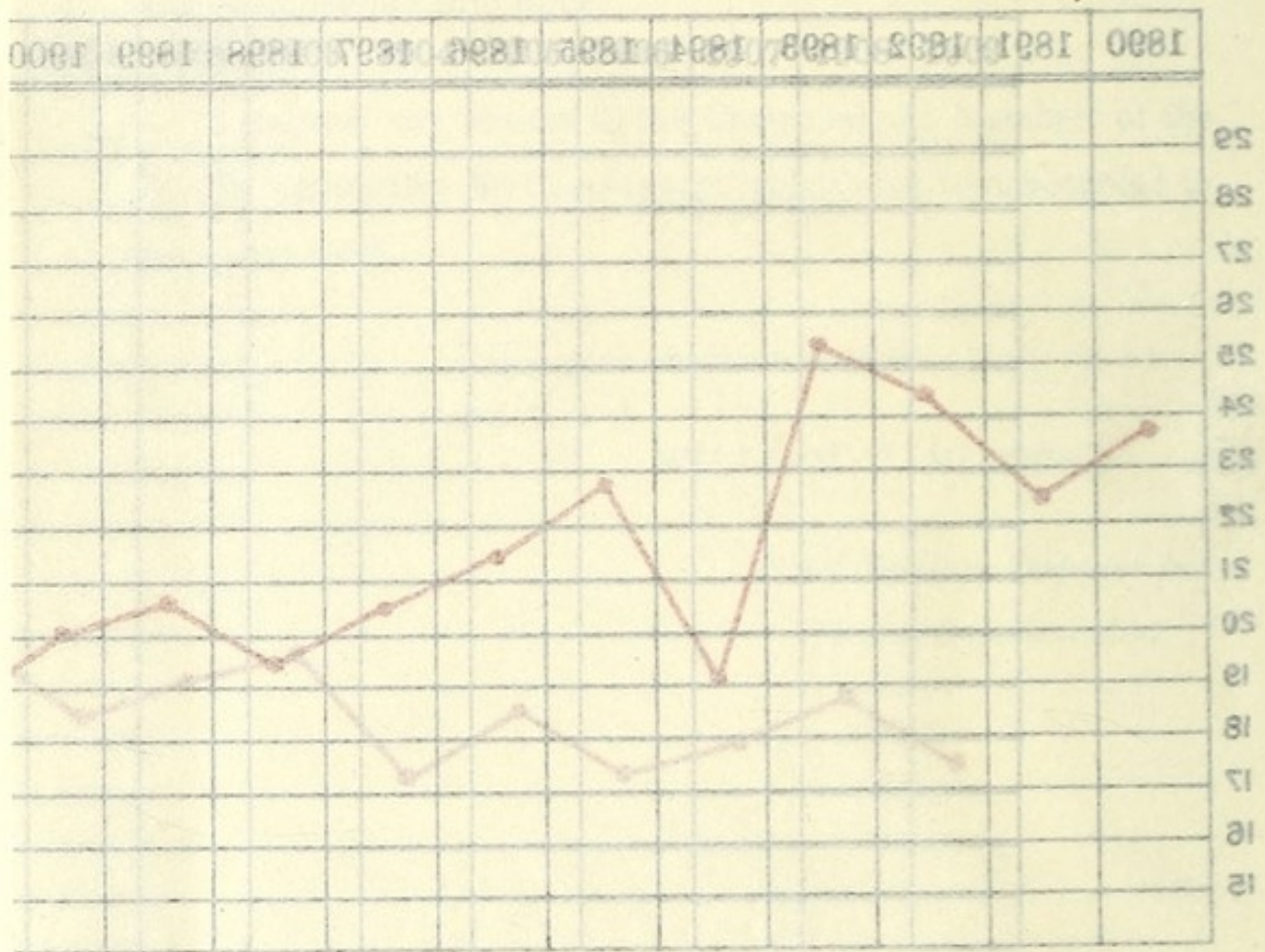


Chart Showing the Death Rate for the last Twenty Years.



The usual Tables required by the Local Government Board

Chart Showing the Death Rate



FOLDOUT HERE

EQ

CHART SHOWING THE WEEKLY RECORD OF THE GENERAL DEATH RATE IN BLACK INK, AND OF THE ZYMOTIC DEATH RATE IN RED INK.



# CHART SHOWING THE WT.

