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County Borough of Halifax,

— Health Department. —

Annual Report

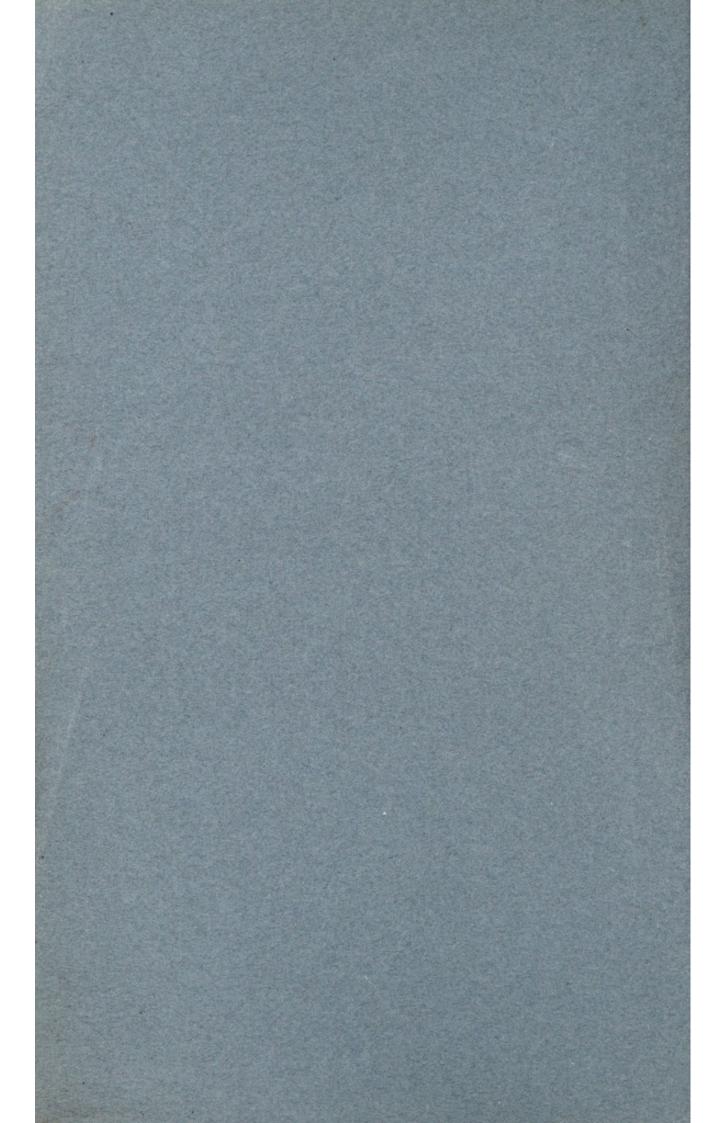
ON THE

Health of the Borough for the year ended Dec. 31st, 1909

> Printed by Order of the Health Committee.

HALIFAX:
N. ASHWORTH & SON, Printers, etc., Lister Lane.

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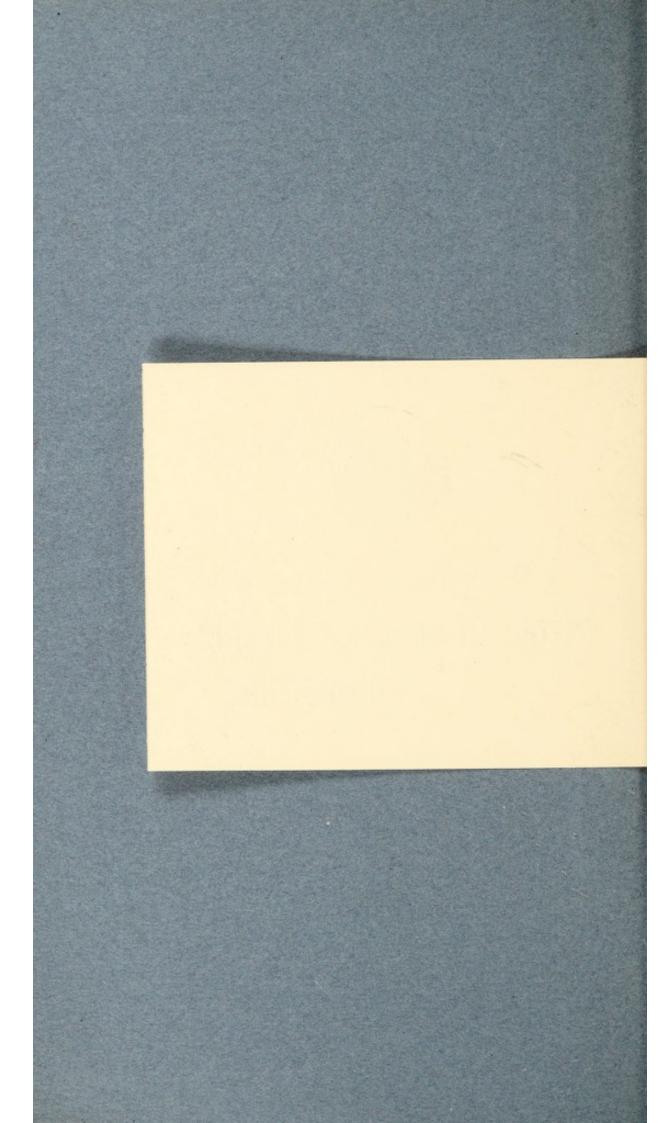




With the

Medical Officer of Health's

Compliments.







County Borough of Halifax,

— Health Department. —

Annual Report

ON THE

Health of the Borough

for the year ended Dec. 31st, 1909

Printed by Order of the Health Committee.

HALIFAX:
N. ASHWORTH & SON, Printers, etc., Lister Lane.

Bealth Committee.

Mayor.

ALDERMAN F. WHITLEY THOMSON, J.P.

ALDERMAN T. HEY, J.P., Chairman.

COUNCILLOR J. ASQUITH, Vice-Chairman.

Alderman J. F. COE, J.P. Councillor R. W. GOGGS.

J. W. CROSSLAND, J.P. ,, J. PICKLES.

Councillor W. H. INGHAM. ,, W. M. BRANSON, L.R.C.P.

A. GREENWOOD. ,, T. G. LE DIEU.

C. H. SMITHSON. " J. BURKE.

D. HANSON. .. E. PINDER.

Councillor A. TAYLOR, J.P.

Sub-Committees

Appointed by the Health Committee.

Hospital Sub-Committee.

THE CHAIRMAN. VICE-CHAIRMAN. ALDERMAN COE.

ALDERMAN CROSSLAND. COUNCILLOR INGHAM. ,, BRANSON.

COUNCILLOR TAYLOR.

Cleansing Sub-Committee.

THE CHAIRMAN.
VICE-CHAIRMAN.
ALDERMAN CROSSLAND.

COUNCILLOR BURKE.

,, LE DIEU.
PINDER.

Buying Sub-Committee.

THE CHAIRMAN.
VICE-CHAIRMAN.
COUNCILLOR PICKLES.

COUNCILLOR GREENWOOD.
,, HANSON.
,, INGHAM.

Accounts Sub-Committee.

THE CHAIRMAN. VICE-CHAIRMAN. COUNCILLOR HANSON.
,, SMITHSON.

COUNCILLOR GOGGS.

Housing Sub-Committee.

THE CHAIRMAN. VICE-CHAIRMAN. ALDERMAN COE. COUNCILLOR HANSON.
,, LE DIEU.
,, PINDER.

COUNCILLOR SMITHSON.

Staff of the Bealth Department.

Medical Officer of Health, Superintendent of the Borough Fever Hospital.

JAS. T. NEECH, M.D., D.P.H.

Assistant Medical Officer of Health.
J. F. HODGSON, M.D., D.P.H.

Public Analyst.

J. A. DEWHIRST, F.I.C., F.C.S.

Chief Sanitary Inspector and Scavenging Superintendent.
DAVID TRAVIS, A.R.S.I., F.S.I.A.

Veterinary and Meat Inspector.

J. POLLARD, M.R.C.V.S., D.V.S.M.

District Sanitary Inspectors.

J. E. FIRTH.

R. PICKARD.

F. TEAL.

J. G. WALSHAW.

Lady Health Visitor.
ALICE M. THOMPSON.

Assistant Scavenging Superintendent.

R. TRAVIS.

Chief Clerk.

J. W. JACKSON.

Assistant Clerks.

CHARLES CARLTON.

ERNEST JUBB.

Matron of the Borough Hospital.

M. ROBISON.

Disinfector.

T. W. BOOTH.

Laundry Engineer.

Porter.

W. GUEST.

A. GREENWOOD.

Goux Department.

Yard Foreman. G. LEAPER.

Goux Inspectors.

J. HEATH.

S. MAUDSLEY.

Clerk.

Assistant Clerk.

HARRY ASKE.

A. G. CRAVEN.

County Borough of Halifax.

REPORT

OF THE

MEDICAL OFFICER OF HEALTH,

JAS. T. NEECH. M.D., D.P.H.

For the Year 1909.

INTRODUCTION.

To the Chairman and Members of the Health
Committee.

GENTLEMEN.

I now have the pleasure of submitting to you my Tenth Annual Report, which is the Thirty-seventh Annual Report of the Medical Officer of Health of the Borough.

There is not very much in the Report which requires special notice. I regret that the improvement in the birthrate, to which I drew attention last year, has not been maintained. Compared with the previous year, there was a fall of 2.7, and the birthrate for the year under review is the lowest on record.

It is satisfactory to me to have again to report a fall in the infantile deathrate. The deathrate of infants under one year of age for 1909 is the lowest on record.

The Zymotic deathrate is also highly satisfactory, as it shows a considerable improvement upon that of the previous year, and the general deathrate shows an improvement of '1 per 1,000, when compared with the previous annual rate.

The Lady Health Visitor, assisted by the Voluntary Lady Workers, continue to do good work. A Report thereon, by Miss Thompson, is included herein.

I have also included a Report by Mr. J. Pollard, the Veterinary Inspector, which I requested him to make on the work he had carried out during the year under review.

The staff remains the same as for the previous year, there having been no changes during the year, and there was consequently no interference in the carrying out of the work of the department on that account.

In conclusion I have to acknowledge the assistance rendered me in carrying out the work of the department by Mr. Travis, the District Sanitary Inspectors, and Messrs. Jackson and Carlton, and also your Committee for its generous support.

I am,

Gentlemen,

Your obedient servant,

Medical Officer of Health.

TOWN HALL,

HALIFAX,

May 18th, 1910.

STATISTICAL SUMMARY.

	1909	1908
	ACRES	
Area of County Borough		
Area of County Borough	£495,401	£498,632
	2493,401	2400,002
Population, estimated to	107.750	107 500
middle of 1909		107,500
Population, 1901 Census		7.0
Persons per Acre		7.8
Average number of Persons		
per Inhabited House, 1901		
Census		
Average number of Persons		
per House, 1901 Census		
Birth Rate, 1909	17.0	19.7
,, Average for previous 10 years		
previous 10 years	23.9	20.8
Death Rate, 1909		15.3
" Average for		
previous 10 years	15.7	16.0
Death Rate Corrected for		
Institutions	14.4	14.5
Death Rate for seven principal		
Zymotic Diseases	.77	1.0
Death Rate, the mean for pre-	,,	1.0
vious 10 years of Zymotic	1.0	1.1
Diseases		1 1
Deaths of Infants under 1 year		101
per 1,000 Births	00	101
Illegitimate Births	83	120
Average Age at Death, 1909—	10.0	10.0
Males	42'0 years	40.6 years
Average Age at Death, 1909—	1= 6	
Females	47'3 years	44.8 years
Latitude—North		
Longitude—West		
Height above Sea Level, feet		
Total Rainfall, inches	35.69	30.75

Area and Population of the Borough.

I am of opinion that the population of the Borough, as estimated by the Registrar General for the year 1909, was too high. He estimated the number of inhabitants to be 111,911, but taking all the facts into consideration, I estimated the population to be in the middle of 1909, 107,750, and the deathrates in this Report are worked out on that basis. That being the case, the figures given in this Report will not quite agree with those of the Registrar General.

The Borough contains an area of 13,650 acres, and is divided into fifteen wards as the following table will show.

WARDS.		Population Estimated to Middle of 1909.	Acreage.	Persons per Acre.	Number of Houses Built during 1909.
Ovenden		7415	531	13.9	
Akroydon		6710	582	11.5	
North		7860	168	46.7	
Central		7055	82	86.0	
Windt		8530	86	99.1	
Courth		7410	296	25.0	10
Treet		7010	191	36.7	
Southowram		7230	777	9.3	1
Skircoat		10890	513	21.2	50
Comloss		3210	532	6.0	4
Pellon		10020	241	41.5	3
Kingston		10960	238	46.0	2
Illingworth		7130	4504	1.5	3
Northowram		3350	1555	2.1	
Warley		2970	3354	-8	

Totals		107750	13650		73
Average				7.8	

Marriages.

I have again to record a fall in the marriage rate. The number of marriages solemnised within the Borough during the year under review was 990, which gives a rate of 9.1 per 1,000, against 9.4 during the previous year, or a fall of 3 per 1,000, and this is the lowest marriage rate on record in the Borough.

The following table compares the marriage rate of Halifax with that of England and Wales, and shows the marked fall in the former rate compared with the general rate of the country.

YEAR.	MARRIAGE RATE				
TEAR.	Halifax.	England & Wales			
1897	15.9	16 0			
1898	10 4	16.2			
1899	12.3	16 5			
1900	11.2	16.0			
1901	10.5	15.9			
1902	9.8	15 9			
1903	9.5	15.8			
1904	9.7	15 2			
1905	9.7	15.2			
1906	9.5	15.6			
1907	9.9	15.7			
1908	9.4	14.9			
1909	9.1	14.5			

The following table shows where the marriages were solemnised.

In Churches of the Church of England	563
In Nonconformist places of Worship, and at the Registry Office	427
Total	990

Births.

In my Annual Report for the previous year I was able to record an improvement in the birthrate of the Borough. I regret to say however that this has not been maintained, for there were registered during the year under review, 1,840 births, or a decrease of 378 when compared with the above year. The birthrate therefore was only 17.0 per 1,000 compared with 19.7 for the year 1908, and is the lowest yet recorded.

The births registered included 942 males, and 898 females. Fewer females were born compared with the number of males than has been the case for several years past.

The birthrate is unfortunately falling more quickly than the deathrate, and the excess of births over deaths in the Borough for the past year is the lowest on record. The following table compares these figures for the past ten years.

Year.	Births.	Deaths.	Excess of Births over Deaths.
1900	2316	1809	507
1901	2351	1709	642
1902	2225	1634	591
1903	2248	1592	656
1904	2154	1643	511
1905	2072	1618	454
1906	2070	1674	396
1907	1927	1558	369
1908	2118	1561	557
1909	1840	1552	288
Average	2132	1635	497

Birthrates in the country generally appear to be still falling, so that Halifax in not alone in this respect.

The following table compares the birthrate of Halifax with that of England and Wales during the past thirty-five years, and shows the marked fall which has taken place in the birthrate of the Borough compared with the general birthrate of the country.

Period.	England and Wales.	Halifax.		Difference.
1875-9	35.3	35.7	- -	0.4
1880-4	33.8	30.7	_	3.1
1885-9	31.4	28.0		3.4
1890-4	30:7	25.4		5.3
1895-9	29.7	23.1	_	6.6
1900-4	28.4	21.5		6.9
1905-9	26.5	18.5	1	8.0

The marriage rate in Halifax is considerably below that of England and Wales, and has been so for many years past. This is an important factor in connection with the birthrate, and will to a great extent account for the fall which has taken place.

The number of illegitimate births registered within the Borough during the past 16 years is shown in the following table, and the rate per cent. which these births bear to the total number of births registered.

Year.	Number of Illegitimate Births.	Rate per cent. to whole number of Births.
		Average
1891	51	2.3
1892	78	3.5
1893	73	3.2
1894	73	3.4 2.7
1895	51	2.3
1896	65	2.7
1897	44	2.0
1898	58	2.6
1899	58	2.5
1900	75	3.2
1901	101	4.2
1902	89	4.0
1903	102	4.5
1904	113	5.2
1905	97	4.6
1906	99	4.7/
1907	84	4.3
1908	120	5.6 4.8
1909	83	4.5)

The percentage of illegitimate births for the year under review is below that of the previous year, still the average percentage of these births is considerably above what obtained during the years 1891 to 1898.

The mean birthrate of the 76 great towns for the year 1909 was 25.7 per 1,000, and only three of those towns had a lower birthrate than Halifax, viz.:—Hornsey, 15.3; Hastings, 15.1; and Bournemouth, 16.7.

The birthrate of Halifax is considerably below all of the 33 largest towns in the country.

The birthrate of England and Wales for 1909 was 25.6 per 1000, against 26.5 for the previous year, or a decrease of .9 per 1000.

The birthrates of the other Yorkshire great towns were:—Leeds, 22.8; Sheffield, 28.2; Bradford, 18.8; Hull, 29.4; Huddersfield, 24.5; York, 23.8; and Rotherham, 31.6 respectively.

The number of births and birthrates during each quarter of the year are shown in the following table.

	Period		Mal	es.	Fema	ales.	Tot	als.	Birth per livi	1000
			1909.	1908.	1909.	1908.	1909.	1908.	1909.	1908
1st (Quarter		 206	274	214	290	420	564	15.5	20.
2nd	11	***	 254	265	231	271	485	536	18.0	19.
3rd	,,	***	 232	261	223	234	455	495	16.8	18
4th	,,	***	 250	257	230	266	480	523	17.8	19
	Whole '	Years	 942	1057	898	1061	1840	2118	17.0	19

From the above table it will be observed that each quarter shows a diminished birthrate, but the most marked fall occurred during the first quarter.

The following table gives the birthrates of the different wards during the past five years.

				BIRTI	IRATES.		
WARDS.		1905.	1906.	1907.	1908.	1909.	Average.
Ovenden		17.5	19.9	20.2	21.6	17.6	19 3
Akroydon		27:0	23 2	24.0	22.3	19.8	23.2
North		21.2	25.1	21.1	25 6	22.9	23.1
Central		20.2	18:1	18 7	22 0	20.9	19.9
West		14.6	17.9	17.0	17.8	16.4	16.7
South		13 5	14.3	12 4	15 6	13.6	13.8
East		14.6	17.5	13.1	16 2	15.8	15 4
Southowram		23.2	22 4	20:3	24.7	20.3	22.1
Skircoat		21.2	17:5	18.9	19.5	15 1	18.4
Copley		21.5	17 7	22.2	16.9	21.8	20 0
Pellon		18.7	17:3	16.8	17.7	14 6	17:0
Kingston		17:3	18 3	15.0	17 9	13.1	16 3
Illingworth		17.8	18:1	15 0	16.1	15 9	16 5
Northowram		27:3	21.5	19 1	25.0	15 5	21 6
Warley		22.3	20.2	15.0	17 9	19.1	18.9

It will be observed from the above table that the birthrate varied from 13.6 in South Ward to 22.9 per 1000 in North Ward, and that the average for five years varied between 13.8 in South and 23.2 in Akroydon Wards.

According to information furnished me by the sextons and caretakers of the burial grounds in the Borough, there were 104 still-born children buried during the year.

One case occurred in which a child born alive was buried as still-born. The Registrar General ordered a prosecution of the sexton concerned in this case, and he was fined. This should act as a warning to others who occupy a similar position. The number of still-born children buried in each of the burial grounds during the past two years is shown in the next table.

Ī	Name of Burial Ground.		911		f Still-born ried therein.
-			_	1909.	1908.
	Moor End Chapel			0	0
	***************************************		•••		100
	Nursery Lane Wesleyan	***		0	0
	St. George's, Ovenden		•••	0	.2
	Providence Chapel, Ovenden			2	2
	Illingworth Church			.6	5
	Christ Church, Mount Pellon			12	8
	Illingworth Wesleyan Chapel			1	1
	Mount Zion, Ovenden			1	3
	Borough Cemetery			23	35
	Wesleyan Chapel, Northowram			0	0
	All Saints' Church			6	3
	Heywood Cemetery			6	4
	Bradshaw Church			1	0
	Mount Tabor Burial Ground			0	0
	King Cross Wesleyan			10	9
	St. Paul's Church, King Cross			10	12
	All Souls' Cemetery			11	7
	Warley Church			1	1
	Wesleyan Chapel, Luddenden			0	0
	Lister Lane Cemetery			0	2
	St. Thomas' Church			14	7
	Totals			104	101

The total number buried during the previous seven years was:—1901, 108; 1902, 86; 1903, 118; 1904, 121; 1905, 113; 1906, 112; 1907, 113.

Deaths.

During the year 1909 there were 1,654 deaths registered within the Borough, of which 132 belonged to outside districts. From information received from other towns, I ascertained that 30 deaths occurred outside the Borough among persons belonging thereto, consequently by excluding the former, and including the latter, the actual number of deaths for the year was 1,552.

The latter number included 764 males and 788 females, and gives a deathrate for the year of 14.4, which is 1 per 1000 below that of the previous year, and, with the exception of the year 1907, is the lowest deathrate on record.

The deathrate of the Borough has been gradually falling during the past 10 years, as the following table will show.

Period.	Deathrate.
1900	18.1
1901	16.2
1902	15.4
1903	14.9
1904	15:3
1905	15.0
1906	15.5
1907	14:3
1908	14.5
1909	14.4

The deathrate of England and Wales during 1909 was 14.5 per 1000, and the average of the 76 great towns was 15.6 per 1000. Of these, 37 had a lower deathrate than Halifax, but of the latter, 35 have a smaller population.

The deathrates of the other Yorkshire great towns were as follows:—Leeds, 14·1; Sheffield, 15·1; Bradford, 14·5; Hull, 14·9; Huddersfield, 16·3; York, 11·4; and Rotherham, 13·2 per 1000 respectively.

The following table compares the average deathrate of England and Wales for the undermentioned periods. with that of Halifax.

Period.	Deathrates.				
renou.	Halifax.	England and Wales.			
1876-80	23.5	20.9			
1881-5	21.1	19.4			
1886-90	21.2	18.9			
1891-5	17.9	18.7			
1896-00	17.5	17.7			
1901-5	15.3	16.0			
1906-9	14.6	14.9			

From the above table it will be observed that the deathrate of Halifax has fallen 9 per 1000 during the past 35 years, which means a saving of over 900 lives per annum, compared with the beginning of that period.

In the following table the general deathrates of the various wards of the Borough are compared. The density of population is also shown.

WARDS,		Population.	Acreage.	Persons per Acre,	Total Deaths.	Death- rate per 1000.
Ovenden		7415	531	13-9	109	14 6
Akroydon		6710	582	11.5	114	16.9
North		7860	168	46.7	143	18.1
Central		7055	82	86.0	126	17.8
West		8530	86	99-1	132	15.4
South		7410	296	25.0	112	15.1
East		7010	191	36.7	120	17.1
Southowram		7230	777	9.3	101	13.9
Skircoat		10890	513	21.8	118	10.8
Copley		3210	532	6.0	21	6.5
Pellon	•••	10020	241	41.5	113	11.2
Kingston		10960	238	46.0	152	13.8
Illingworth		7130	4504	1.5	103	14.4
Northowram		3350	1555	2.1	50	14.9
Warley		2970	3354	.8	38	12.7
Totals		107750	13650	7.8	1552	14.4

The following table gives the average general deathrate of each ward for a period of five years.

	-		DEATH	RATES.		
WARDS.	1905.	1906.	1907.	1908.	1909.	Average.
Ovenden	 17.0	14.9	12 0	15.1	14 6	14 7
Akroydon	 17 6	14.7	16.2	15 8	16.9	16.2
North	 17:7	17:1	13.8	20.5	18 1	17.4
Central	 17.2	17.6	17.8	15.9	17.8	17:2
West	 14.1	14.5	14.4	16.7	15.4	15.0
South	 13.6	14.0	14 9	15.4	15.1	14.6
East	 19.4	22.6	21.6	17:0	17.1	19.5
Southowram	 14.4	16.9	15.0	15.2	13.9	15.0
Skircoat	 14.0	15.4	10.1	11.7	10.8	12.4
Copley	 14.8	14.0	16 6	9.0	6.5	12.1
Pellon	 11.9	12.0	12.2	10 9	11.2	11.6
Kingston	 10.3	12.4	12.3	12.0	13.8	12.1
Illingworth	 15.6	15.6	13.5	13 8	14 4	14'5
Northowram	 16 1	13.6	13.6	14 6	14.9	14:5
Warley	 16.0	19.5	15.7	12.7	12.7	15.3

While East Ward still shows the highest average deathrate, the fall in the deathrate of that ward which took place during 1908 is still practically maintained. North Ward, as in the previous year, has the highest deathrate, while Copley had the very low deathrate of 6.5 per 1000.

The following table shows the total number of deaths of each sex which occurred in the Borough, the total age lived, and the average age at death during the past 14 years.

	MAI	LES.		FEMALES.						
	Deaths.	Total Years.	Average Ages.		Deaths.	Total Years.	Average Ages,			
0-1	107	107		0-1	76 76					
1-5	61	140	2.2	1.5	61	152	2.4			
5-15	34	324	9 5	5-15	33	267	8.0			
15-25	40	795	19.8	15-25	35	683	19.5			
25-65	317	15683	49.4	25-65	286	14288	49.9			
65 and upwards	205	15039	73-3	65 and upwards	297	21880	73.6			
Total	764	32088	42.0	Total	788	37346	47:3			
1909	Ave	rage	42.0	1909	Average		47.3			
1908		,,	40.6	1908		,, 44.8				
1907		,,	41.4	1907		,,	47.8			
1906		,,	39.0	1906		٠,	44.9			
1905		,,	38.6	1905		,,	44.1			
1904		,,	37.5	1904		,,	41.2			
1903		,,	40.0	1903		,,	43.3			
1902		,,	36.6	1902		,,	40.2			
1901		,,	36.2	1901		,,	40.1			
1900		,.	38.3	1900		,,	41.2			
1899		,,	35.1	1899	,,		38.4			
1898		,,	34.4	1898	,,		38-2			
1897		,,	35.3	1897		,,	37.9			
1896		,,	35.5	1896		,,	38.4			

The above table shows that the average age at death of both males and females was higher than during the previous year, and that the average age at death of males was greater than any year shown in the table. This is chiefly accounted for by the fact that a much smaller number of male infants died during the year, also a smaller number of males between the age of one and five years. It is also interesting to note that 92 more females died at the age of 65 and upwards than males. The average age at death of females during the year under review was five years greater than males, against four during the previous year.

Zymotic Deathrate.

The seven principal Zymotic diseases accounted for 84 deaths during the year, against 108 during 1908, which gives a deathrate of '77, against 1'0 per 1000 during the previous year. A satisfactory decrease, but on two occasions a slightly lower deathrate has been recorded, viz., in 1903 and 1907. Fewer deaths occurred from both Measles and Whooping Cough, which account for the lower Zymotic deathrate.

Two only of the 33 great towns of England and Wales had a lower Zymotic deathrate than Halifax, viz., Brighton, '65 and Bradford, '68.

The Zymotic deathrate for 1909 of the other Yorkshire great towns were as follows:—Leeds, '80; Sheffield, 1'78; Bradford, '68; Huddersfield, 1'84; Hull, 1'38; York, '55; and Rotherham, 1'21 per 1000 respectively.

In the following table the average Zymotic deathrate of England and Wales is shown.

-			DE	ATHRA	TE PR	ом		
	Smallpox.	Measles,	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fever.	Diarrhœa.	Zymotic Deathrate per 1000.
England and Wales 76 Great Towns 143 Smaller Towns	0.00	0.48	0 09 0 11 0 09	0.15	0 24	0.06	0.38	1.42
England and Wales, less the 219 Towns	0.00	0 21	0.06	0.14	0.16	0.06	0.17	0.80

From the above table it will be observed that the Zymotic deathrate of Halifax compares very favourably with the average of that of the country generally.

The following table shows the number of Zymotic deaths which occurred in each ward during the year under review.

WARDS.	Small- pox.	Measles.	Scarlet Fever	Diph- theria.	Whooping Cough.	Fever	Diarr- hœa.	Zymotic Death- rate per 1000.
Ovenden				2	3			-6
Akroydon		1	3	8	2	3	1	2.6
North			6	1	1		5	1.6
Central		1			1		1	-4
West			1	1	3	1	1	-8
South						1		.1
East					3	2	1	-8
Southowram	***	1	2	5	0	-	1	1.2
		1	2	-			1	.5
Skircoat		1	***	2	2	1		
Copley	***	***	***	***	***		***	.0
Pellon		***	2	1	***			•2
Kingston		444	2	4	1		***	-6
Illingworth			1	1	1			.4
Northowram			1					.2
Warley				- 2				.6
Totals		4	18	27	17	8	10	avg. ·7

It will be observed that Akroydon had the highest Zymotic deathrate, while no deaths occurred during the year from these causes in Copley Ward.

It was Diphtheria which chiefly accounted for the higher Zymotic deathrate in Akroydon Ward.

The following table gives the Zymotic deathrate of the various wards during the past five years, together with the average for each ward.

WARDS.	ZYMOTIC DEATHRATE.						
WARDS.	1905.	1906.	1907.	1908.	1909.	Average.	
Ovenden	1.9	1.9	0.5	0.8	0 6	1.1	
Akroydon	0.6	1 6	1.3	1 9	2.6	1.6	
North	1.3	1.3	1.1	3 0	16	1.6	
Central	0.7	1.1	0.7	0.4	0.4	0.6	
West	0.7	0.4	0.4	1.2	0.8	0.7	
South	0.9	1.0	0.7	0.1	0.1	0.5	
East	0.8	1.5	0.5	1.7	0.8	1.0	
Southowram	1.8	3.0	0.3	1 9	1.2	1.6	
Skircoat	0.5	0.9	0.0	-09	0.5	0.3	
Copley	2 0	1.6	0.6	1.5	0.0	1.1	
Pellon	0.5	0.9	0.7	0.8	0.2	0.6	
Kingston	0.3	1.1	0 4	0.2	0.6	0.5	
Illingworth	0.4	0.8	0.9	0.7	0.4	0.6	
Northowram	1.8	1.5	0.6	0.2	0.2	0.8	
Warley	0.3	1.7	0.0	0.3	0.6	0.5	

The above table shows that Akroydon, North and Southowram Wards have the highest, and Skircoat the lowest average Zymotic deathrate.

The following table gives the average Zymotic deathrate in quinquennial periods during the past 33 years.

Period.	Deathrate.
1877-81	2.20
1882-6	1.55
1887-91	1.43
1892-6	1.33
1897-01	1.40
1902-6	1.02
1907-9	.80

It will be observed that Halifax has had a satisfactory Zymotic deathrate for many years past, that there has been a continuous fall in this rate, and that to-day it is only one-third of what obtained 30 years ago.

Infantile Mortality.

It is satisfactory to me to have to report that the infantile deathrate still continues to fall, in fact there has been a gradual drop in this rate since the year 1905. In my annual report for the above year the following passage occurs—

"Attention has been drawn to this question, and great efforts are now being put forth throughout the Kingdom, with the object of bringing about a reduction in this mortality. It is hoped that these efforts will meet with success, because there is no doubt that a very large number of these deaths are preventable."

Since the above was written, we have directed our attention to this matter in the Borough, and I think, at any rate some of the success which has been achieved in securing this fall in the infantile deathrate, may be with truth ascribed to the work that has been done in this direction. I am the more convinced that this has been the case, because the fall in this deathrate has been a gradual one.

During the year under review, 183 infants died under one year of age, against 216 during the previous year. It is true that a smaller number of births were registered during 1909, but notwithstanding that fact the infant mortality for the year was at the rate of 99 deaths per 1000 births.

This is the lowest infantile deathrate that has ever been recorded in the Borough, and it is two below the previous year when the rate was 101 deaths per 1,000 births.

The infantile deathrate of the Borough must be considered very satisfactory when compared with other manufacturing centres.

That there is room for a further diminution in the above deathrate is evident, when the average rate for five years in Wards like Warley and Skircoat are 67 and 70 respectively per 1,000 born, compared with East Central, and North, which show an average rate of 176, 161, and 143 respectively. It is to Wards like the latter that we must look for improvement.

During the year, on the instruction of your Committee, I got out figures showing what particular diseases caused the great difference in the infant mortality in Skircoat Ward and six other Wards, and the following table gives the mortality per 1,000 births from the chief causes of infantile deaths from 1904 to 1908 inclusive for the Wards concerned.

WARDS.	Zymotic Deaths, including Diarrhœa.	Enteritis and Gastro Intestinal Catarrh.	Diarrhœa.	Premature Birth.	Atrophy, Debility, Marasmus.	Convulsions.	Bronchitis and Pneumonia.
Akroydon	20	4	2	23	18	12	16
North	29	9	18	26	15	10	30
Central	14	10	9	27	27	9	32
West	14	9	2	16	16	6	33
East	29	7	18	39	26	18	27
Southowram	20	7	11	27	8	17	21
Total	126	46	60	158	110	72	159
Average	21	7	10	26	18	12	26
Skircoat	2	1	1	17	6	7	15
Difference	- 19	- 6	- 9	- 9	- 12	- 5	- 11

The average infant mortality of the above six Wards for the five years was 149 per 1,000, and the causes of death in the above table account for a difference of 71 per 1,000, which with the 70 which is the average deathrate for Skircoat Ward, makes 141 per 1000, consequently the above diseases practically account for the difference in the deathrates in comparing the above Wards with Skircoat.

In connection with this matter I also prepared the following table, which shows the percentage of the total number of infantile deaths of each of the undermentioned chief causes of death in the Wards concerned.

WARDS.	Zymotics	Diarrhæa.	Atrophy Debility.	Premature Birth.	Convulsions.	Bronchitis and Pneumonia.
Akroydon	15.3	1.8	13.5	17.1	9.0	11.7
North	19.4	12.5	10.4	17:3	6.9	20.1
Central	8.5	5.4	16.4	16.4	5.4	19.5
West	11.7	2.1	13.8	13.8	5.3	27.6
East	15.0	9.4	13.2	19.8	9.4	14.1
Southowram	16.2	9.0	6.3	21.6	13.5	17.1
Total	86 1	40.2	73.6	106.0	49.5	110.1
Average	14:3	6 7	12.2	17.6	8.2	18.3
Skircoat	3.4	1.7	8.6	24.1	10.3	22.4
Difference	- 10-9	- 5.0	- 3.6	+ 65	+ 2.1	+ 4.1

It will be observed that while under three headings the percentages for Skircoat are lower, under the remaining three they are actually higher than the average of the other six Wards. These are percentages of the total deaths, and the explanation of this is that in Skircoat Ward where infant mortality is low, there is a marked saving of life in connection with the more preventable diseases, hence there being fewer deaths, the less preventable diseases must of necessity show a larger percentage of the total deaths which occur.

A comparison between the percentage of infant deaths which occur under and over one month of age respectively in the six Wards concerned and Skircoat Ward is interesting. The following table shows this.

WARDS	Percentage of the total Infant Deaths, which occurred under one month of age in the undermentioned Wards.
Akroydon	 34.2
North	 29.8
Central	 37.5
West	 25.5
East	 33.0
Southowram	 42.3
Total	 202 3
Average	 33.7
Skircoat	 50.0
Difference	 16.3

The average number of infantile deaths under 1 month per 1,000 children born in the above six Wards was 50, against 42 in Skircoat, so that although 8 per 1,000 fewer died in the latter Ward under that age, yet as the above table shows, 16 per cent. more of the infant deaths in that Ward occur under one month of age, compared with the average of the other six Wards.

The following table gives the number of births, birthrates, the number of deaths of infants, and the mortality per 1,000 births, for each Ward in the Borough.

WARDS.	-	Number of Births.	Birth- rates.	Number of Deaths under 1 Year.	Mortality per 1000 Births.
Ovenden		131	17.6	14	106
Akroydon		133	19-8	16	120
North		180	22.9	23	127
Central		148	20.9	17	114
West		140	16 4	17	121
South		101	13.6	7	69
East		111	15.8	14	126
Southowram		147	20.3	16	108
Skircoat		165	15.1	11	66
Copley		70	21.8	4	57
Pellon	***	147	14.6	9	61
Kingston		144	13.1	18	125
Illingworth		114	15.9	10	87
Northowram		52	15.5	4	76
Warley		57	19.1	3	52
Totals		1840	17.0	183	99

The following table shows the causes of deaths of infants under one year of age for the year under review.

	CAUSE OF DEATH.	Under 1 week.	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.
A11	Certified	48	16	6	5
Causes.	Uncertified	2			
		Ī			
	Small-pox			*	
	Chicken-pox			200	
Common			2.00	325	***
Infectious Diseases.	Scarlet Fever		***		***
Diseases.	Diphtheria (including				1
	Membranous Croup)				
	Whooping Cough	111		***	1
	Diarrhœa, all forms		***		***
Diarrhœal	Enteritis, Muco-enteritis,	1			
Diseases.	Gastro-enteritis			***	
	Gastritis, Gastro-intestinal				
	Catarrh			***	
	Premature Birth	26	7	1	
Wasting	Congenital Defects		1	***	1
Diseases.	Injury at Birth	. 2	**		***
	Want of Breast-milk, Starvation			***	
	Atrophy, Debility, Marasmus	11	3	3	
Tuberculous	Tuberculous Meningitis Tuberculous Peritonitis:				
Diseases.	Tabes Mesenterica				
	Other Tuberculous Diseases			7.6.4	1
	(Exercised on	1	1.53	***	
8		1 1	***		2
	Distant.		***	***	
	Maningitia (and T. L		***	1	
	Convulsions			1	
Other -	Bronchitis	3	5	1	
Causes.	Larungitie		2.00		200
	Pneumonia			***	
	Suffocation overlying	1 1		***	
	Other courses	1 2		***	***
	(Other causes	2	***	***	
		50	16	в	5
		THE OWNER WHEN	The same of the same		

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.
75 2	16	19	11	6	9	3	7	14	6	5	10	181
 1 34 6 2 17	 6	1 3	3 	 2 1 	 2 1 1 	1 1	1 1 1 	1	 	i i 	 2 1 	1 6 5 5 5 37 13 2 32 2
3 1 9 1 2	 1 2 1 1 2	 1 1 2 4 	1 1 1 2 1 	ï	 1 1 2 	ïi	 1 2	 1 3 3 1 2	 1 1 1 1	 1 2	 1 1 1 2	4 6 1 8 20 7 2 14 3 10
77	16	19	11	6	9	3	7	14	6	5	10	183

A much smaller number of infantile deaths occurred from Zymotic disease than during the previous year, viz.:—12 compared with 37. Atrophy, Debility and Marasmus claimed 3, and premature birth 1 less than during the previous year.

There were 83 illegitimate births, and only 8 illegitimate deaths of infants under one year of age, which gives a deathrate among illegitimate infants of 96 per 1,000, which is less than the average infantile deathrate of the Borough.

As has already been stated there is a marked difference between the infant mortality of the various Wards of the Borough, and the following table gives the average infant mortality and the birthrates of each Ward during the past five years.

WARDS.		Total under 1 year to 1000 Births registered.							
		1905.	1906.	1907.	1908.	1909.	Average.	during the past five year	
Ovenden		132	116	87	93	106	106	19:3	
Akroydon		167	96	161	86	120	126	23.2	
North		197	137	102	154	127	143	23.1	
Central		176	239	122	154	114	161	19.9	
West		139	89	113	138	121	120	16.7	
South		115	63	80	103	69	86	13.8	
East		145	260	219	131	126	176	15.4	
Southowran	n	148	130	142	95	108	124	22.1	
Skircoat		82	80	42	80	66	70	18.4	
Copley		93	56	103	92	57	80	20.0	
Pellon		129	84	68	56	61	79	17.0	
Kingston		71	62	62	81	125	-80	16.3	
Illingworth		85	99	82	104	87	91	16.5	
Northowran	11	155	84	111	59	76	97	21.6	
Warley		78	150	0	56	52	67	18 9	

It will be observed from the above table that there was a marked fall in the infantile deathrate of East Ward during the previous year, and that this has been improved upon during the year under review. This is highly satisfactory, as East Ward has consistently had the highest infantile mortality.

Although the infantile deathrate of East Ward shows such a marked improvement during the past two years, it still has the highest average, viz.:—176 deaths per 1,000 births, Central coming next with 161, while Warley has the lowest average, showing only 67 deaths per 1,000 births.

The Lady Health Visitor, and the band of voluntary ladies, called the "Halifax Public Health Association," continue to do excellent work.

The work carried out during the year by these agencies is referred to in the report of the Lady Health Visitor attached hereto.

Leaflets containing "Hints on how to bring up a Baby" have been widely distributed, through the medium of the midwives and the lady visitors, and a number of individual applications were made to the office during the year for copies of this leaflet.

The following table shows the number of deaths which have taken place in the Borough from some of the chief infantile diseases, and gives the deathrate therefrom of each disease per 1,000 of the population.

DISEASES.		Number of Deaths under 1 year.				Rate per 1000 of Population.				
	1905	1906	1907	1908	1909	1905	1906	1907	1908	1909
From all causes	271	242	195	216	183	2.52	2.24	1.79	2 00	1.69
Respiratory Diseases	52	39	33	36	21	.48	.36	.30	.33	19
Premature Birth	62	39	33	36	37	.57	-36	.30	.33	.34
Diarrhœa	10	12	12	7	5	-09	·11	·11	.06	.04
Whooping Cough	15	1	6	10	6	·14	.009	.07	.09	-05
Convulsions	22	20	19	18	20	.20	·18	·17	·16	.18
Tuberculous Diseases	15	8	17	4	6	·14	.07	·15	.03	.05
Measles	1	15	5	37	1	.009	·13	.04	·34	-009

The following table serves to compare the average infant mortality of England and Wales, the great Towns, &c., with that of Halifax for the past two years, with which Halifax favourably compares.

	Deaths und per 1000	ler 1 year Births.
	1908.	1909.
England and Wales	121	109
76 Great Towns	128	118
142 Smaller Towns	124	111
England and Wales less		
the 218 Towns	110	98
HALIFAX	101	99

The infant mortality of the other Yorkshire great Towns for 1909 was as follows:—Leeds, 122; Sheffield, 118; Bradford, 116; Hull, 114; Huddersfield, 95; York, 99; and Rotherham 116 respectively.

The following table serves to compare the average infant mortality in quinquennial periods from 1875 to the present time, of the Borough, with that of England and Wales.

Period.	Halifax.	England and Wales.
1875-9	173	145
1880-4	161	141
1885-9	158	142
1890-4	163	148
1895-9	154	157
1900-4	132	143
1905-9	109	121

The following table shows the average infant mortality during the past five years, of 34 of the largest Towns of the Country, having a population of 100,000 and upwards, and it will be seen that only one has a lower average than that of Halifax, viz.:—Brighton.

34 LARGE TOWNS.		Deaths 1	ınder 1 year	r to 1000 Bir	ths Registe	ered.
	1905.	1906.	1907.	1908.	1909.	Average.
Burnley	173	213	158	200	156	180
Rhondda	200	173	162	183	129	169
Middlesbrough	174	170	158	159	158	163
Stockport	168	186	159	167	132 -	162
Preston	153	202	158	154	136	160
Nottingham	155	171	165	145	150	157
Liverpool	154	172	144	141	144	151
Manchester	157	167	146	151	134	151
Birmingham	155	167	147	145	134	149
Salford	150	160	140	153	141	148
Blackburn	146	155	153	150	126	146
Sheffield	167	158	145	140	118	145
Bolton	166	140	146	149	128	145
Oldham	150	145	144	160	119	143
Leicester	148	168	131	131	127	141
Norwich	173	172	125	115	119	140
Hull	153	158	127	145	114	139
Gateshead	138	162	136	149	112	139
South Shields	145	150	133	134	137	139
Leeds	152	150	130	138	122	138
Sunderland	143	139	130	146	135	138
Bradford	144	151	124	143	116	135
Wolverhampton	136	139	130	132	138	135
Newcastle	137	151	123	136	119	133
Plymouth	136	152	110	129	131	131
Birkenhead	127	151	110	135	123	129
Derby	151	115	121	112	123	124
Cardiff	118	138	131	125	103	123
Portsmouth	133	129	123	98	96	115
Bristol	122	126	100	126	100	114
Southampton	133	113	108	113	106	114
Huddersfield	119	135	97	111	95	111
Halifax	130	116	102	101	99	109
Brighton	101	110	113	104	96	104

COMPARISON OF WARD DEATHRATES.

The table which follows compares the undermentioned deathrates of the different Wards of the Borough for the year 1909.

WARDS.	General Deathrates.	Zymotic Deathrates.	Respiratory Deathrates.	Phthisis Deathrates,	Infantile Mortality.
Ovenden	14.6	.6	2.6	-8	106
Akroydon	16.9	2.6	2.6	.5	120
North	18.1	1.6	3.3	2.7	127
Central	17.8	·4	4.2	1.2	114
West	15.4	.8	2.4	1.2	121
South	15.1	·1	2.8	-9	69
East	17:1	.8	4.1	1.7	126
Southowram	13.9	1.2	3.1	1.2	108
Skircoat	10.8	-5	1.4	1.1	66
Copley	6.5	.0	-6	.0	57
Pellon	11.2	·2	2.0	.5	61
Kingston	13.8	.6	2.2	-8	125
Illingworth	14.4	·4	3.6	-8	87
Northowram	14.9	.2	2.6	.8	76
Warley	12.7	.6	1.0	1.3	52
Average	14.4	.7	2 6	1.1	99

In the next table the average deathrates from the undermentioned causes, for the past 10 years, in each Ward is shown, and the table serves to compare the same.

		Average Deathrates, 10 years.								
WARDS.		General,	Zymotic.	Phthisis.	Respiratory.					
Ovenden		14.8	.9	1.0	2.3					
Akroydon		15 5	1-3	•7	2.7					
North		17.8	1.6	1.6	3.6					
Central	***	17 5	1.3	1:3	3.2					
West		15.4	.8	1.0	2.9					
South		14.4	-6	-8	2.3					
East		19-8	1.1	2 0	4.0					
Southowram		15.3	1.6	1.1	2.7					
Skircoat		13.2	•6	1.1	2.4					
Copley	***	11 7	1.0	1.0	2.0					
Pellon		12.8	-8	-9	2.0					
Kingston		12.3	.5	.9	2.2					
Illingworth		14.6	.7	* .8	2.6					
Northowram		15.7	-9	1.4	2.2					
Warley		15.3	.6	1.4	2.4					

It will be observed that East Ward has considerably the highest average deathrate, being 2 per 1,000 above North Ward, which has the next highest. This is partly accounted for by its high deathrate from Phthisis and respiratory diseases.

The average general deathrate of the whole Borough for the past 10 years is 15.4 per 1,000, consequently it will be seen that five Wards have a higher average general deathrate than that of the Borough.

Copley has the lowest average rate, while the averages of Kingston, Pellon and Skircoat Wards are satisfactory.

The following table serves to compare the deathrates from some of the chief diseases of the three Wards having respectively the highest and lowest deathrates during the past five years.

		Averag	ge Deathr	ate per 10	oo for 5 ye	ars, 1905 t	0 1909.	
WARDS.		Zymotic Diseases.	Respir- atory Diseases.	Phthisis,	Heart Diseases.	Diseases, Brain and Nervous System.	Tubercu-	Total of Average.
Copley		1.1	1.8	.8	1.1	1.4	.1	6.3
Pellon		-6	1.8	-8	1.3	1.2	.3	6.0
Kingston		.5	2.0	1.0	1.3	1.6	.2	6.6
Average		·73	1.86	.86	1.23	1.4	.2	
East		1.0	3.6	2.0	2.1	1.6	.3	10 6
North	**	1.6	3.2	1.6	1.5	1.6	.4	9.9
Central		-6	3.2	1.4	1.9	1.6	.5	9.2
Average		1.06	3.3	1.66	1.83	1.6	·4	

Notification of Infectious Diseases.

Infectious disease was more prevalent in the Borough during the year under review than was the case during 1908, and 766 cases were notified against a total of 363 during the latter year.

The following table shows the total number of cases of each disease notified, the distribution of these cases among the Wards of the Borough, and the Institutions situated therein.

WARDS.		Typhoid Fever.	Scarlet Fever.	Puerperal Fever.	Diphtheria.	Erysipelas.	Total
Ovenden		- 1	40		8	2	51
Akroydon		3	79		26	7	115
North		4	96		8	1	109
Central		3	33		5	4	45
West		5	45	,	10		60
South		6	33		5	1	45
East		2	52	2	6		62
Southowram		2	37	1	16	7	63
Skircoat		12	30		15	10	67
Copley			10		1 .		11
Pellon		1	32		9	1	43
Kingston			42	1	10	2	55
Illingworth		4	5		6	7	22
Northowram		1	8			2	11
Warley			3		3	1	. 7
Total, 19	09	44	545	4	128	45	.766

INSTITUTIONS (which are included in the above.)

Poor Law Hospital	4		 2	7	
Royal Infirmary	2	1	 6		
Barracks		2	 1		
Waterhouse Charity School		1	 	***	

Lists containing the names and addresses of persons notified were sent each week throughout the year to the chief librarian for his information, and all books found in infected houses, belonging to the libraries, were taken charge of by the Sanitary Inspectors, and disinfected before being again put into circulation.

The following table shows the number of cases of the various infectious diseases notified during each month of the year.

MONTH.	Typhoid Fever.	Scarlet Fever.	Puerperal Fever.	Diphtheria.	Erysipelas.	Total.
January	3	29	1	13	7	53
February	10	35	1	9	2	57
March		45	1	11	3	60
April	5	36		11	1	53
May	3	66		13	5	87
June	1	73		9	3	86
July	6	84	1	7	4	102
August	3	59		9	5	76
September	3	42		11	7	63
October	5	29		10	3	47
November	2	27	***	9	2	40
December	3	20		16	3	42
Total, 1909	44	545	4	128	45	766

From the above table it will be observed that the period of greatest prevalence for Typhoid Fever was during the month of February, and that during the month of March only were no cases reported.

Scarlet Fever was most prevalent during June and July, and Diphtheria was present in the Borough throughout the year, and was much more prevalent than during 1908, 128 cases being reported against 72 during that year.

Compulsory notification has been in force since the year 1883, and the following table shows the number of cases of each disease notified yearly since that date.

From the above table it will be observed that Typhoid Fever was less prevalent than during the two previous years, whereas Scarlet Fever was much more prevalent, more cases having been notified than during any year since 1901. Such was also the case with reference to Diphtheria, as more cases were reported than during the previous two years, the number being exceeded only during the year 1906, which was the year of the greatest prevalence of this disease since notification was enforced.

The following table shows the average number of notifications of the chief notifiable diseases in each Ward of the Borough during the past 10 years.

						-	**********	Anomore
WARDS.		Not	ifications			Total Ave age		Average attack rate per
	Small- pox.	Typhoid Fever.	Scarlet Fever.	Puer- peral Fever.	Diph- theria.	of Notifi- cations.	Popu- lation.	Popula- tion per annum
Ovenden	1.5	2.3	50.9	-1	7.0	61.8	7261	8 5
Akroydon	-6	3 1	25 8	-3	67	36.5	6681	5 4
North	1.6	4.5	28.2	1.0	48	40 1	8193	4.8
Central	4.4	4.9	196	5	5.6	35.0	7787	4.4
West	2.5	5 0	25 8	-2	7.1	40 6	9172	4 4
South	.9	3.0	199		5.6	29 4	7725	3.8
East	7.6	4.0	14.7	-7	3.5	20 5	7168	2.8
Southowram	.7	6.3	25.1	4	5.4	37.9	7463	5.0
Skircoat	2.1	.7.7	33 7	.4	10.7	54 6	9636	5.6
Copley	.4	1.4	10.8	2	3.7	16.5	2968	5.5
Pellon	1.0	3.8	27.8	-5	90	42.1	9386	4.4
Kingston	.6	3.4	423	:3	5 5	521	10369	5.0
Illingworth	1.1	3.7	30.7	.2	43	40.0	7172	5.5
Northowram		2.1	12.8	1000	1.6	16 5	3383	48
Warley	1.7	1.5	8.0		3.2	14.4	2877	5.0

It will be observed that the average attack rate of Diphtheria is much greater in Ovenden Ward, while in East Ward the attack rate was very low. Excluding the above two Wards, there was not a great deal of difference in the attack rate of the remaining Wards.

Causes of Death.

The causes of death in the Borough, of persons belonging thereto, are shown in the following table.

CAUSES OF DEATH.		Number.
		177
Whooping Cough		17
Small-pox		4
Measles		18
Scarlet Fever		27
Diphtheria and Membranous Croup	***	10 -
Diarrhœa		0
Typhoid Fever	***	01
Epidemic Influenza		0.000
Croup		
Enteritis		5
Puerperal Fever	***	2
Erysipelas	***	0
Other Septic Diseases		8
Phthisis	,	120
Other Tuberculous Diseases		23
Cancer, Malignant Diseases	***	89
Bronchitis	***	146
Pneumonia		140
Pleurisy		4
Other Diseases, Respiratory Organs		15
Alcoholism, Cirrhosis of Liver		15
Venereal Diseases		
Diseases and Accidents of Parturition		9
Heart Diseases		162
Other Diseases, Circulatory System		21
Accidents		34
Suicides		8
Murder	***	1
Diseases of Brain and Nervous System		
Diseases of Digestive System		
Diseases of Urinary System		
Old Age		127
Acute Rheumatism		6
Rheumatoid Arthritis		10
Constitutional Diseases		
Starvation		199
Diseases of Reproductive System		4
Diseases of Locomotive System		1
Dentition		4
Premature Birth		37
Congenital Defects		14
Convulsions		26
Chicken Pox		
Gastritis		3
Injury at Birth		2
Want of Breast Milk		
Atrophy, Debility, &c		35
Tubercular Meningitis		17
Tuberculous Peritonitis, Tabes Mesente		9
Syphilis		8
Rickets		1
Meningitis (not Tuberculous)		14
Laryngitis		6
Suffocation Overlaving		
Diabetes Mellitus		15
Discount of Pour		2
Diseases, Organs of Special Sense		4
Lead Poisoning		1
Other Causes		32
		The latest window of the lates
All causes		1552

Smallpox.

No case of this disease occurred within the borough during the year.

Scarlet Fever.

For the year 1908 I had to report an increased prevalence of this disease in the borough. The period of greatest prevalence occurred during the last two months of that year. The disease continued to spread within the borough, and each successive month during the year under review, brought an increased number of notifications, until the maximum was reached, which occurred during July. After that month a gradual subsidence took place, but during the year a total of 545 cases were reported against 186 during the previous year.

Scarlet Fever is not now nearly so serious nor fatal as it was 30 years ago, in fact the average case mortality in the borough to-day is only about half what it was 20 years ago.

The deathrate however for the past year was higher than that of 1908, which could only be expected considering the much greater prevalence of the disease.

While the deathrate from this cause has had such a marked fall during recent years, the average attack rate per 1,000 of the population of the borough had remained about the same up to the year 1904, but notwithstanding the great prevalence of the disease during the year under review, the average attack rate for the past five years, is below that of any quinquennial period since the year 1885, as the following table will show.

Period	Average No. of Cases of Scarlet Fever per annum notified	Average population	Average attack rate per 1000 population	Average case Mortality per cent. attacked.
1885-9	331	79,207	4.1	6.1
1890-4	255	86,808	2.9	5.8
1895-9	392	95,755	4.0	3.4
1900-4	465	105,211	4.4	3.4
1905-9	274	107,850	2.5	2.9

It is to be hoped that in the future, the attack rate will show as favourable a result as the deathrate has done.

The disease appears to be of a milder type than formerly obtained, and to this fact no doubt the diminished mortality is chiefly due, in fact the disease is frequently so mild that it becomes most difficult to diagnose its true nature.

The following table gives the number of cases notified during each month of the year.

SCARLET FEVER	January	February	March	April	May	June	July	August	September	October	November	December	Total
Cases notified	29	35	45	36	66	73	84	59	42	29	27	20	545

Of the above 545 cases, 18 died, which gives a deathrate of 16, and a case mortality of three per cent. of those notified. During the previous year the deathrate was .03, and the case mortality 2 per cent.

Fever.

The borough has remained free from typhus fever during the past 10 years, and no cases of so-called continued fever have been notified, consequently all the cases to be included under the above heading were typhoid or enteric fever.

During the year under review, 44 cases of typhoid were reported, against a total of 53 during the previous year. This is also the smallest number that has been notified during one year since 1906.

The disease was most prevalent during February, when 10 cases were reported, and March was the only month of the year during which no notifications were received.

The following table gives the sanitary conditions connected with, and the probable or assigned causes of the notified cases of typhoid fever.

	d	D	rainaș	ge	Venti	lation				Probab	ole or as	ssigned	l cause
Disease	Number of Cases reported	Good	Bad	None	Good	Bad	Old Middens	Goux Closets	Water Closets	No trace	From eating shell fish	From a cold	From a previous case
Typhoid Fever	44	36	7	1	44		1	27	16	37	3	3	1

In discussing the cause of this disease last year, I called attention to the fact that 20 per cent of the total cases reported, appeared to be connected with the consumption of shell fish. I am informed by my inspector that the scare created last year through these facts becoming known, caused a marked diminution in the consumption of this class of fish, and during the year under review, only three cases could be in any way connected with this cause, which works out at 6 per cent of the total number of cases reported. Moreover, only one case occurred in a house in which a previous case had been notified.

The following table gives the number of cases reported since the year 1899, and the number of deaths since that date.

Year	Number of cases reported	Number of deaths
1899	92	22
1900	79	20
1901	67	15
1902	65	14
1903	61	11
1904	47	10
1905	50	9
1906	38	4
1907	60	9
1908	53	10
1909	44	8

It will be observed from the above table that 8 of the 44 reported cases ended fatally, which gives a deathrate of '07, and a case mortality of 18 per cent, against a deathrate of '09 per 1,000 and a case mortality of 18 per cent during the previous year.

Diphtheria.

I regret to have to report that this disease was much more prevalent in the borough than during the previous year, in fact more cases were notified than in each year since 1906, and with the exception of that year, than in any year since the notification act has been in force.

During recent years this disease has become much more prevalent amidst great centres of population than formerly obtained, and this borough unfortunately offers no exception to that state of matters. It is a disease which appears to be very difficult to control, and hospital isolation does not appear to help us very much in controlling its spread. This possibly arises from the fact that a number of very mild cases escape notice, and also from the probability that in some cases healthy mouths harbour the germs of this disease, in fact these germs have been isolated from apparently healthy mouths.

The following table shows the number of cases reported, and the number of deaths from the disease each year since 1902.

Year	Number of cases reported	Number of deaths
1902	37	8
1903	50	10
1904	80	17
1905	87	27
1906	158	42
1907	118	28
1908	72	11
1909	128	27

The disease was present in the borough, throughout the year, notifications having been received during each month, but its greatest prevalence occurred during December, when 16 cases were reported.

The largest number of cases occurred in Akroydon Ward, from which no less than 26 notifications were received.

The other wards chiefly affected were Southowram, Skircoat, West and Kingston; Northowram being the only ward which remained free from the disease throughout the year.

The following table gives the sanitary conditions connected with, and the probable or assigned causes of the notified cases of diphtheria.

		D	raina	ge	Venti	lation				Pro	bab	ole o	rassi	gne	d ca	use
Discase	Number of Cases reported	Good	Bad	None	Good	Bad	Old Middens	Goux Closets	Water Closets	No trace	Contracted away from home	From a cold	From a previous case in same house	Contracted at School	From defective drains	From other cases in the neighbourhood
Diph- theria	128	104	21	3	128		2	101	25	93	1	14	9	8	1	2

Of the 128 cases reported, 27 died, giving a deathrate of '25, and a case mortality of 21 per cent, against a deathrate of '1 per 1,000, and a case mortality of 15 per cent during the previous year. Thus there was an increase in both the deathrate and case mortality, showing that the disease must have been of a rather more virulent type.

The following table shows the mortality from the disease during the past five years.

Year	Deathrate per 1600	Mortality per cent.
1905	.25	31
1906	.38	26
1907	.25	23
1908	.10	15
1909	.25	21

On referring to the mortality percentage in the above table, it will be seen that the deathrate has fallen during the past five years, but notwithstanding the increased mortality of the year under review, the deathrate compares favourably with that of five years ago.

Erysipelas.

There were 45 cases of this disease reported during the year, and no deaths occurred therefrom, against 44 reported and 2 deaths during the previous year.

Measles.

The disease was present in the borough during December of the previous year, and as far as our information goes, a few cases cropped up from time to time during the first six months of the year under review, after which the borough continued to be practically free therefrom. On the whole therefore the disease was much less prevalent than during the previous year.

I believe that parents are now in the habit of more frequently calling in medical aid in this disease, than was formerly the case. This is in my opinion a mark of progress, and will I am sure be a factor in tending to avert the complications which are liable to arise in connection therewith and in that way favourably affect the deathrate therefrom.

The disease caused four deaths during the year, against 37 during the previous year, and the lower deathrate from this disease, was an important factor in reducing the zymotic deathrate for the year under review.

All the above four deaths were of children under five years of age, and they give a deathrate of '03 per 1000, against '34 during the previous year.

Whooping Cough.

This disease was present in the borough more or less, but became more prevalent during the latter four months of the year, and appeared to attain its maximum prevalence during December, This is a highly infectious disorder, and is chiefly fatal to children under five years of age. Of the 17 deaths, no less than 16 occurred under the age of five, and only one above that age.

The 17 deaths resulting therefrom give a deathrate for the year of '15 per 1,000, against '28 during the previous year.

Diarrhoea.

This borough is remarkable for its freedom from those diseases which are classified under diarrhoea.

There were only 10 deaths registered, against 15 during the previous year.

The highest point which the four foot earth thermometer reached during the year was 55°, which was attained on August 14th and remained at that height until September 3rd.

Between the former date, and the middle of October, seven of the above deaths occurred, showing that a high ground temperature favours the development of this disease.

The past summer was cold and wet, and was unfavourable to the development of flies, which are undoubtedly "carriers" of the germs of this disease. That being so, all accumulations of organic matter, filth, horse manure &c., which are the breeding places of flies, should be more frequently removed. During a hot and dry summer, this should be more particularly attended to.

The following table serves to compare the average diarrhoea deathrate of Halifax, with that of England and Wales, and other towns.

				Deathrate per 1000.
England and Wales				0.28
76 Great Towns				0.38
143 Smaller Towns				0.27
England and Wales,	less the	219 Tow	ns	0.17
Halifax				0.09

The above table indicates the favourable position which Halifax occupies with reference to this disease.

The above 10 deaths give a deathrate of '09, against a deathrate of '13 for the previous year.

The deathrate from diarrhoea of the other Yorkshire great towns for 1909 were as follows:—Leeds, '22: Sheffield, '55: Bradford, '15: Hull, '55: Huddersfield, '26: York, '22: and Rotherham, '58 per 1,000 respectively.

Influenza.

This appears to have been more prevalent in the Borough during the year under review, as 21 deaths were registered therefrom against 18 during the previous year.

The majority of the deaths from this disease occurred during the month of March.

Respiratory Diseases.

Under this heading the diseases included are Bronchitis, Pneumonia, and Pleurisy, and the number of deaths registered therefrom was 290, against 252 during the previous year.

The above 290 deaths included 146 from Bronchitis, 140 from Pneumonia, and 4 from Pleurisy, and give a deathrate of 2.6 per 1,000, against 2.3 during the previous year.

The respiratory deathrates for the previous 10 years were 2.3, 2.5, 2.6, 2.6, 2.6, 2.8, 3.1, 3.0, 3.7 and 3.6 respectively.

The above figures show that the respiratory deathrate of the Borough has been gradually diminishing, although that for the year under review is slightly above that of the two previous years.

There were fewer deaths from respiratory disease among children under five years of age than during the previous year, the number being 49 against 70 in the latter year.

The following table gives the number of deaths from respiratory disease during each month of the year under notice, and the seven previous years, also the average of those years.

Deaths from Respiratory Diseases	January	February	March	April	May	June	July	August	September	October	November	December	Total
1909	29	30	58	23	25	18	7	6	8	16	24	46	290
1908							7			12	24	37	252
1907	27	38	25	36	21	12	13	14	8	25	33	29	281
1906	32	28	27	29	29	14	11	18	10	30	28	33	289
1905	48	26	31	24	24	16	7	8	9	29	31	33	286
1904	38	28	25	28	18	20	13	10	13	23	26	43	285
1003	39	29	30	34	29	18	16	15	14	21	24	40	309
1902	35	46	38	30	22	23	21	16	15	15	30	37	328
Average	34	32	34	28	23	16	12	12	10	21	27	37	

It will be seen on referring to the above table that the largest number of deaths from respiratory disease occur during the months of January and February, and that nearly half the deaths from these causes are registered during the months of January, February, March and December.

Phthisis.

The number of deaths resulting from Phthisis was 120, against 146 during the previous year.

This gives a deathrate of 1.1 per 1,000 against 1.35 during the previous year.

The following table shows the deathrate from this disease during the past 10 years.

Year	Deathrate
1900	1.5
1901	1.38
1902	1.02
1903	1.25
1904	1.25
1905	1.25
1906	1.12
1907	1.1
1908	1.35
1909	1.1

From the above table it will be observed that while the deathrate for the year under review is considerably below that of last year, it is the same as that of 1907, but slightly above that 1902, which was the lowest on record. This is an infectious disease, and is no doubt preventable, and the improvement in the deathrate compared with the previous year is to a certain extent satisfactory, although more deaths result from this cause each year than from all the principal zymotic diseases.

It is to be hoped that in the future, greater progress will be made in reducing this deathrate.

To accomplish this, no doubt the education of the public will be an important factor.

With that in view, during the year I gave several public lectures on this subject, illustrated with lantern slides. Leaflets have been distributed, and pocket spittoons supplied free to those who applied for the same.

Other forms of tubercular disease caused 49 deaths during the year, which added to the above, make a total of 169 deaths due to the various forms of tubercle. This gives a total deathrate from all tubercular diseases, of 1.5 per 1,000, against 1.8 during the previous year.

The causes of death from tubercular disease, other than Phthisis were as follows:—

Tubercular Meningitis	17
Tuberculous Peritonitis Tabes Mesenterica	9
Other Tubercular Diseases	23

The following table shows the decline which has taken place in the Phthisis deathrate of Halifax during the past 29 years.

		Average Deathrate from Phthisis
Ten Years -	1881-1890	2.00
Ten Years -	1891-1900	1.20
Nine Years -	1901-1909	1.20

Under the Regulations of the Local Government Board, which makes the occurrence of Phthisis in a poor person compulsorily notifiable to the Medical Officer of Health, 170 notifications were received during the year. This number corresponds to 105 primary cases, as the remaining notifications were duplicates.

The following table shows the number reported more than once, and the number of duplicate notifications received in connection therewith.

Number of notifications received	62	62	18	8	20	Total
Number of primary cases	62	31	6	2	4	105
Number of times each case was notified	1	2	3	4	5	

Enquiries were made as far as practicable, not only into the family history of persons reported under the above Regulations, but also in connection with deaths that were registered during the year from the disease, which had not been notified, and it was found that in nine houses, previous cases had occurred, and in 30 families there was a history of one or more previous cases having occurred therein. Also in two cases the patients had previously slept with a person suffering from the disease.

Disinfection was offered in cases of death or removal to Hospital or elsewhere, of consumptive persons, and 61 houses were disinfected after death, while in 28 this was refused.

Anthrax.

No case of this disease was reported during the year.

Cancer.

The number of deaths registered during the year from all the various forms of malignant disease was 89, against 110 during the previous year, which gives a deathrate of '82 per 1,000, against 1'0 for 1908.

Though malignant disease appears to be on the increase in some parts of the country, it would not appear that such has been the case in Halifax, as the following table will show.

Year	1892	1893	1894	1895	1896	1897	1898	1899	1900
Deathrate	.8	.7	.8	.8	1.1	.6	.6	.7	.7
Year	1901	1902	1903	1904	1905	1906	1907	1908	1909
Deathrate	.8	.8	1.0	.8	.9	.9	1.0	1.0	.8

On referring to the above table it will be seen that the years 1907 and 1908 showed a slight increase, but there was an improvement during the past year, the deathrate for which was the same as fifteen years ago.

Inquests and Uncertified Deaths.

The number of inquests held by the Coroner during the year was 120, which included 15 on persons not belonging to the Borough.

The 105 deaths which belonged to the Borough, and were certified by the Coroner after inquests, are equal to 6.7 per cent. of the total deaths in the Borough, and the 12 deaths which were neither certified by a Medical Practitioner nor the Coroner, corresponds to 0.7 per cent. of the total deaths.

There were 5 cases reported to the Coroner, in which an inquest was deemed unnecessary.

The following table shows the percentage of deaths certified by the Coroner, and the percentage of uncertified deaths during the past 9 years.

YEARS.	1901	1902	1903	1904	1905	1906	1907	1908	1909
Percentage certified by Coroner Percentage uncerti- fied	2.6	2.9	3·1 1·5	2·8 1·0		4.7			6.7

It will be observed that the percentage of deaths certified by the Coroner has gradually increased, and that there has been a corresponding diminution in the percentage of uncertified deaths.

Water Supply.

The water is supplied to Halifax by gravitation, and is obtained from five separate valleys.

It is collected at such levels that it can be conveyed into the reservoirs for both storage and supply.

The source of supply and the collecting grounds, or drainage area of the reservoirs, is chiefly moorland or high mountain pasture, and of the mill-stone-grit formation.

The water thus collected is conveyed to the town by means of covered conduits, and large iron pipes, and is delivered pure, and at a high pressure, with a constant supply.

The higher portion of the town is supplied from a service reservoir at Royles Head, to which water is pumped from Albert Reservoir, the lift being 300 feet.

The new reservoirs at Walshaw Dean were completed and opened in 1907. Since then certain leakages have been discovered with which the committee has had to deal. It is expected that these defects will be remedied in the near future. No water has so far been drawn from these reservoirs.

The waterworks committee now own 10 storage, and 6 service reservoirs, having a total capacity of 1,955,222,000 gallons.

There was a greater rainfall during the year under review and there was thus a plentiful supply of water of excellent quality.

Storage reservoirs are relied upon for the purification of the water supplied to the main portions of the Borough, and that supplied from Ogden, and Ogden Kirk reservoirs only is filtered, there being two 8' pressure filters, made by Messrs. Mather and Platt of Manchester, at Ogden, and one 3' filter of the same make, for filtering the Ogden Kirk supply.

The gathering grounds being of a moorland character, the water is liable to contain an excessive amount of peaty acids, hence it is liable to have a certain amount of solvent action upon lead. That being the case, the water has now for some years been treated with lime. The lime is added at three different points, viz:—Ramsden Wood, Ogden and Ogden Kirk reservoirs, through which all the water supplied by the Waterworks Committee has to pass before its final distribution.

One grain of slaked Buxton lime is added to each gallon of water, as milk of lime, except in the case of Ogden Kirk, which is very acid, and to which 8 grains per gallon are added, also in connection with the latter supply, \(\frac{1}{4}\) grain per gallon of allumina-ferric is utilised, for the purpose of clarifying the water.

The following table, which is prepared from figures obtained from the analyses of Mr. Dewhirst, the Borough Analyst, gives the acidity of the water, before and after treatment.

		Average acidity of sample of Water in parts per 100 000									
Month		Ogden R	teservoir	Ramsden Wood Reservoir							
		Before Treatment	After Treatment	Before Treatment	After Treatment						
January		No	No	No	·13						
		estimation	estimation	estimation							
February		1 15	.29	.,	-09						
March		No	No		.16						
		estimation	estimation								
April		,,	,,	,,	.12						
May				"	·18						
June	***	-8	.17		·11						
July		No	No	,,	No						
3	***		estimation	,,	estimatio						
August				220	•20						
September		",	,,	,,	.14						
October		- "	18	,,	.12						
November	1.55	,,	No	"	.10						
rovember		***		,,	-10						
Donombon			estimation		-14						
December	***	***	,,	,,	·14						

It will be observed that very few estimations were made in connection with the Ogden supply but those given show that the treatment had the effect of markedly reducing the amount of acid present in the water.

No estimations were made during the year of the water in Ramsden Wood, before, but a large number of samples were submitted to analysis after treatment.

The average acidity of Ramsden Wood water is about 4 parts per 100,000. The success of the treatment of Ramsden Wood water will thus be seen on referring to the above table.

I am glad to be able to report that these figures are a great improvement upon those of the previous year, as they show a reduction of about 30 per cent in the acidity, compared with that year.

These figures are the averages of a number of estimations made when the water was found to contain a definite amount of acid, but several analyses made from time to time during the year have shown that the water was neutral, or slightly alkaline, consequently the average water supplied to the Borough, so far as the presence of acidity is concerned, was actually better than these figures show.

The following table shows the average acidity of the Ramsden Wood and Ogden water, for each month, during the past eight years.

			1	Ramsd	en Wo	od, A	cidity	parts p	er 100,0	000		
						Mo	nth					10
Period	January	February	March	April	Мау	June	July	August	September	October	November	December
1902-6	.36	31	-29	-39	.45	-35	-33	-31	-29	.34	.32	38
1907-9	-29	40	0 35 37 30 32 30 37									
		Ogden Reservoir										
1902-6	83	-91	.95	.73	.75	-66	-65	.76	.68	78	84	-90
1907-9	-97	1.07	-9	-92	1.1	-9	-8	85	-65	121	1.0	.95

I should like to see the amount of acidity a little further reduced, because I am of opinion that the water would be better were it supplied somewhere near the neutral point. I have impressed this upon Mr. R. J. Hartley, the Waterworks Engineer, to whom I am very much indebted for his hearty co-operation, and for the information he has supplied me with relative to this matter.

Sewerage and Drainage.

I am indebted to Mr. Lord, the Borough Engineer, for the following particulars.

The sewers generally in the Borough are in a satisfactory condition, and have been, as usual, regularly flushed.

The scheme for the drainage of Copley Ward has been extended by the construction of a 9" pipe sewer for the purpose of draining Copley village. The sewer is 48 yards long, and affords drainage to about 150 houses. This sewer is on a lower level than the main in Wakefield Road, consequently the sewage has to be raised, and this is done by Shones Pneumatic Ejectors.

Seven houses in Upper Washer Lane, which formerly drained into a tank, causing a serious nuisance, have been connected up to the sewer, so also has the Washer Lane Dyeworks.

A 9" sewer, 175 yards long, has been laid in Green Lane to intercept the drainage of The Wells, which previously drained into a cesspool and caused a serious nuisance.

A 12" pipe sewer, 166 yards long, has been laid in Burnley Road, for the purpose of draining Willow Hall.

With regard to the sewage scheme for the drainage of Northowram district, negotiations have been proceeding with neighbouring districts, and borrowing powers have been obtained for carrying out the scheme, which will be commenced during the ensuing year.

In connection with the Warley scheme, 140 houses have been connected to the sewers during the year, so that practically the whole of the houses in the ward which are within a reasonable distance of the sewers, are now connected up.

An intercepting sewer 5' x 3' 4" and 143 yards long has been laid in Queen's Road, in order to remedy the flooding of certain of the lower parts of Hopwood Lane.

A sewer has been constructed to Mount Tabor, consisting of 860 yards of 15" pipes, and 506 yards of 12" pipes, for the purpose of draining the district of Mount Tabor, the houses in which previously drained on to adjoining farm land, causing a nuisance, more especially during the summer months.

In connection with the outfall works at Salterhebble, additional filter beds have been constructed during the year.

Scavenging, disposal of Night Soil and House Refuse.

The Health Committee is responsible for the scavenging and cleansing of all the paved streets and roads, and also undertake the watering of all streets and roads.

From a health standpoint, this is a very important work, and I believe it has been satisfactorily carried out during the year.

I am of opinion however that sufficient use is not made of our excellent water supply, in the way of flushing streets, back streets, courts, alleys and back yards, as I feel sure that a more thorough cleansing of the above, during the summer months especially where the lower class property in the town is concerned, would tend to promote the health of the inhabitants.

Pure water used in this way, is of far greater value than the many so-called disinfectants which are used to cover smells.

The "Goux" system still exists in the town, and the greater part of the night soil is dealt with in that way. There are now 18,038 goux closets in the borough, an increase of 63 during the year. There are 6,097 water closets, or an increase of 245 during the year.

Wherever there is a sewer and a water supply, no new houses are now allowed to be built without a water closet.

The goux tubs are renewed at periods varying from 3 to 10 days according to circumstances, and 20 horses and vans, and 30 men are engaged on this work.

The tubs after being emptied at the Depôt, are washed, and partly filled with fresh shoddy before they are returned to the closets.

The re-arrangement effected two years ago, in the method of collecting these tubs, continues to work in a satisfactory manner, and is less costly.

The following table gives the number of water closets in the borough, and the increase which has taken place since the year 1893.

Year	Number of W.C.'s in the Borough
1893	3796
1894	3837
1895	3880
1896	3921
1897	3962
1898	4003
1899	4166
1900	4331
1901	4496
1902	4661
1903	4826
1904	4991
1905	- 5157
1906	5317
1907	5566
1908	5852
1909	6697

During the past five years, the number of water closets has more rapidly increased in the borough than was formerly the case.

The Waterworks Committee proposed to place a charge of five shillings per annum upon all water closets in the borough. This was successfully opposed by your Committee, and I am strongly of opinion that your action in this matter was a correct one, because the charge placed upon these conveniences, would tend to prevent the introduction of water closets, more especially where conversions from the goux system are necessary.

There are still 809 privy middens in the Borough, against 821 during the previous year, or a decrease of 12, and 432 dry ashpits, against 433 a year ago, or a decrease of one only during the year.

Steps are being taken to have these privy middens converted into water closets where possible, and where the latter are impracticable, into goux closets.

The removal of house refuse is also undertaken by the Health Committee, in most cases tubs being provided by the Corporation for its reception at the house.

The average number of horses and carts used for the removal of this refuse was 15, and the number of men engaged in the work was 30 during the past year.

The refuse is still disposed of on tips, which is not a satisfactory way of dealing therewith. The Corporation however has sanctioned the purchase of a machine called a "Dust Manipulator" and steps are being taken for its installation. When this machine is ready, a certain quantity of house refuse will be dealt with thereby, as well as the garbage and fish refuse from the markets which is at present removed to a field and there buried. The treatment of the garbage and fish refuse in this way will remedy a serious nuisance in the Southowram district, caused by depositing and burying this refuse in a field which is situated there.

Common Lodging Houses.

The number of common lodging houses situated within the Borough is 16, or an increase of 3 during the year.

These houses are required to be re-registered in May of each year, under a local Act of Parliament.

They are registered to accommodate 699 lodgers, against 834 for the previous year.

These lodging houses are under the control of the police, who are responsible for their general conduct, and carrying out of the Regulations in force with reference thereto.

I am informed by the Chief Constable that he has had no cause for complaint during the year, and that they appear to have been conducted in a satisfactory manner generally.

Factories and Workshops.

Considerable attention was given during the year to the administration of the Factories and Workshops Act, so far as the provisions of that Act affect the Health Department.

Although several factories and workshops in the Borough still have sanitary conveniences which are not of a satisfactory kind, they are being gradually dealt with, and during the year under review, considerable improvement has been made in this direction.

In connection with this work, no legal proceedings were taken during the year, as all the improvements which were made, were secured without that necessity, and mostly on verbal and informal notices.

With regard to limewashing, and the general cleanliness of workshops, these matters appear to have been better attended to during the year, as fewer complaints were made in reference to these matters.

The number of complaints made regarding workshops which required limewashing were 45, against 56, and dirty closets, floors, &c., 13 against 26 during the previous year respectively.

Only one complaint was received of overcrowding, and four cases were reported of defective ventilation. The above were all remedied.

The following table gives the number of visits that were made to factories and workshops and to shops under the Shop Hours Act, by the district sanitary inspectors.

District	Number of Visits made to Factories	Number of Visits made to Workshops	Number of Visits under the Shop Hours Act
A	62	308	286
В	77	443	241
С	61	261	307
D	. 39	99	6
Total	239	1111	840

It will be observed from the above table that the Borough is divided into four districts for the purposes of inspection, each being under the supervision of a sanitary inspector. Each sanitary inspector carries out the necessary inspection of factories and workshops within his own district, and the work done in connection therewith is set out in the tables which follow.

The nature and number of the various sanitary defects are also shown in these tables.

The total number of visits made by the district sanitary inspectors, to factories and workshops, was 1,350, against 1,268 during the previous year, and 9 visits were paid by myself, in order to inspect the sanitary conveniences, advise regarding alterations that were required thereto, and other matters.

The following tables indicate the amount of work done by the district sanitary inspectors in their respective districts.

DISTRICT A.

INSPECTOR JOHN GEORGE WALSHAW.

Number of Workshops on the Register, 289.

Nature of Defec	ets		Number Registered
IN FACTORI	ES.		
Offensive smoke			3
Insufficient closet accommoda			4
			2
Defective and made up drains		***	28
Closets not marked for sexes	1 2		20
Insanitary closets	***		34
Closets requiring ventilation, ventilated space	or intervening		24
Defective troughing			1
Offensive accummulation			1
IN WORKSHO	OPS.		
Rooms requiring limewashing			7
Dirty closets			6
Inadequate ventilation		***	2
Defective water closets			2
Defective drains			3
Defective troughing			2
Offensive accummulation			1
ili – ransauči, spati	Total		120

DISTRICT B.

INSPECTOR ROBERT PICKARD.

Number of Workshops on the Register, 369.

Nature of Defects			Number Registered
IN FACTORIES.			
Closets not labelled for sexes			10
No screens in front of closets			23
Nuisance from gas engine exhaust			1
Offensive smoke			3
Offensive urinals		'	2
Insufficient flush to water closets			15
Insufficient ventilation to water clos	sets		5
Unsuitable closets			21
Insufficient closet accommodation			3
Defective, made up, and untrapped	drains		5
IN WORKSHOPS.			- 1
Rooms requiring limewashing			24
Insufficient ventilation			2
Insufficient closet accommodation			3
Defective drains			3
Untrapped drains			1
Made up drain			1
Offensive privy and defective water	closets		2
Offensive smoke			1
Offensive accummulations			1
Dirty floors, staircases, and closets			5
Abstracts not provided			7
Overcrowded room			1
	Total		139

DISTRICT C. INSPECTOR JAMES EDWARD FIRTH.

Number of Workshops on the Register, 191.

Nature of Defects		Number Registered
IN FACTORIES.		
Want of intervening ventilated space	e	 6
Made up Water closets		 28
Broken W.C. trap		 1
Offensive Goux closets		 2
Offensive trough closet		 1
Nuisance from dust		 - 1
Made up lavatory		 1
Offensive fumes from gas engine		 2
Closets insufficiently ventilated		 4
IN WORKSHOPS.		
Broken seal to water closets		 1
Defective W.C. cistern		 1
Workrooms requiring limewashing		 13
Dirty closets		 1
	Total	 62

DISTRICT D.

INSPECTOR FRED TEAL.

Number of Workshops on the Register, 94.

Nature of Defects		Number Registered
	Western Bullion	
IN FACTORIES.		
Made up water closets		 2
Insufficient closet accommodation		 3
Offensive closets		 10
Water closets insufficiently lighted		 3
Water closets insufficiently ventilate	ed	 3
IN WORKSHOPS.		
Workrooms requiring limewashing		 1
Made up drain		 1
Dirty closet		 1
Abstracts not provided		 4
	Total	 28

It will be observed on referring to the foregoing tables that the total number of nuisances and sanitary defects dealt with numbered 249, against 235 during the previous year.

The number of defects which remained unabated at the end of the previous year was 20, which together with the above 349, made a total of 369. Of these 232 were remedied, and 137 remained unabated at the end of the year.

Under section 5 of the Factories and Workshops Act, the factory inspectors sent 32 notices regarding sanitary defects, of which 28 were in connection with factories, and 4 in connection with workshops.

The above notices were attended to in due course, but it was not possible to secure the remedy of all, within the year under review, and several were outstanding at the end of the year.

In each case, after completion of the work, including those which were outstanding from the previous year, a notice was sent to the factory inspector informing him of the abatement of the nuisances complained of, and the number of notices of abatement sent to the factory inspector were as follows:

Factories	 	15
Workshops	 	6
Bakehouses	 	1

Under section 107 of the Factories and Workshops Act, the occupiers were rather more punctual in sending in their lists of outworkers than during the previous year. There was also a slight increase both in the number of lists sent in, and in the number of outworkers.

All the outworkers were visited during the year, the sanitary inspectors having made 48 visits for that purpose. It is true that the number of visits made is not much greater than the number of outworkers, but this is explained by the fact that a number of those who are reported as outworkers have workshops of their own, and are visited in connection therewith.

There were 13 lists sent in, against 12 during the previous year, and the number of outworkers notified was as follows.

	Tailors	Shoe- makers	Seam- stresses	Total
Number of Outworkers	20	6	4	30

A number of the above, themselves occupy workshops, the premises of the remainder, who work in their own houses, on being visited, their premises were found to be satisfactory.

One outworker returned, resided outside the Borough, at Hipperholme, and a notice thereof was sent to the Medical Officer of Health of that district.

The workshops register has been kept up to date from lists received from the factory inspector, and all new workshops discovered by the inspectors have been reported to the factory inspector.

The following is a detailed list of all the workshops in the borough, which shows a decrease of 159 during the year.

Pottorn Cord Maker	1	Dress & Mantle Makers	111
Pattern Card Maker	. 1	0.111	11
Joiners and Cabinet	64	3.61111	60
Makers	4 /		1
Brush Makers			3
Provision Merchants		Coopers	66
Rag Sorters		Bakehouses	1
French Polishers		Wood Turner	1
Tailors		Drug Packing	8
Marine Store Dealers	4	Whitesmiths	
Blacksmiths	24	Coach Builders	4 3
Upholsterers	12	Rope Makers	
Umbrella Makers	3	Wood Carvers	5
Box Makers	2	Wool Softers	5
Surgical Inst'm't M'ker	1	Wool Sorters Cork Cutter Gun Makers	1
Fruit Boilers	-	Cornet Populari	1 2 7 4
Plasterers		Carpet Repairers	1
Hosiers and Knitters		Picture Frame Makers	1
Wheelwrights		Wire Worker	1
Painters		Basket Makers	3
Plumbers		Tinners	15
Printers		Locksmiths	2
Sweet Boilers	2	Cutler	1
Cistern Maker		Underclothing Makers	16
Clog Sole Makers		Blind Makers	2
Belt and Brace Makers		Electrical Engineers	4
Oil Merchants	-	Piano Makers	- 6
Rug Makers	3	Firelight Makers	5
Watch Makers and		Drysalters	4
Jewellers		Boot Upper Maker	1
Motor Repairers		Cycle Works	. 2
Leather Cutters		Tea Packers	2
Sugar Packer		Brass Works	3
Designers	4	Laundries	. 2 2 3 7 7
Metal Engravers	2	Hair Pad Makers	7
Hair Dressers	11	Machine Makers	8 2
Metal Polish Makers	2	Machine Brokers	
Carpet Beater	1	Marble Masons	3
Chair Maker	1	Shoeing Smiths	4
Photographers	10	Firewood Cutters	3
Billiard Table Maker	1	Paper Bag Makers	2
Ventilating Engineers	3	Dentists	6
Trunk Maker	1	Steel Skewer Maker	3 6 1 2
Soap Maker	1	Slipper Makers	2
Boot, Shoe and Clog		Concreter	1
Makers	158		
			-

Total number of Workshops, 945.

Bakehouses.

The bakehouse register has been thoroughly revised and this partly accounts for the decrease which has taken place during the past two years in the number of bakehouses.

The number of bakehouses on the register was 100, against 132 the previous year, being a decrease of 32 for the year. The decrease for 1908 was 36.

There were 3 new bakehouses opened during the year, and in each case was inspected by myself, to ascertain their fitness for the purpose before they were allowed to be occupied as such.

Although the number of bakehouses show such a diminution, it is worth noting that no underground bakehouse has been closed, the number remaining the same, viz:—26.

The bakehouses are inspected by the district sanitary inspectors, each being responsible for those situated in his own district.

The number of visits paid to the bakehouses during the year was 349, as the following table will show.

Description of Premises	Number on Register	Number of Visits made
Wheat bread and muffin bakers, including confectioners	89	940
Oat bread and muffin bakers	11	349

One underground bakehouse had been illegally occupied as such, and was closed.

Greater attention appears to be paid by occupiers to the condition of bakehouses than formerly was the case, although it appears that more complaints were received with reference to limewashing, than was the case during the previous year.

The largest number of complaints usually has reference to the neglect of this important matter in connection with the cleanliness of bakehouses.

The number of defects reported during the year was 44 and 3 having remained over from the previous year, made a total of 47, of which 44 were removed, leaving 3 unabated at the end of the year.

The following table shows the number and character of the defects reported, and the number remedied.

Nature of Defects		Number Reported	Number Remedied
Brought forward from last year Dirty and defective closets Bakehouses requiring limewashing Sink pipes to disconnect Defective sink drains Defective fall pipes Defective roof Illegal occupation of undergroun bakehouse Insufficient ventilation Dirty sink Drain opening inside bakehouse Dirty floor	d	3 3 29 2 2 2 1 1 1	2 29 3 2 1 1 1 1 1
Made up drain Defective flush to water closet Total		1	1 1

Ice Cream Makers and Vendors.

There was no complaint during the year regarding those engaged in this work.

Offensive Trades.

The number of offensive trades carried on in the borough under section 112 of the Public Health Act, 1875, was as follows:—

	Total	14
	/T . 1	
Tripe Boilers	 	9
Soap Boilers	 	2
Blood Boiler	 	1
Bone Boilers	 	2

The above premises have been regularly visited during the year, and on the whole appear to have been well conducted, no complaints having been received during the year regarding any of them.

Public Health Laboratory.

The number of specimens examined in the public health laboratory was greater than during the previous year, viz:—78, against 67.

The following table gives details regarding the specimens examined.

Disease		Number of	Results of Examination	
		Specimens	Positive	Negative
Diphtheria (Swabs)		39	9	30
Diphtheria (Membrane)		1	1	***
Anthrax (Blood)		2	1	1
Anthrax (on Agar)		1	1	
Tuberculosis (Sputum)		27		27
Tuberculosis (Milk)		3		3
Tuberculosis (Pus)		1		1
Typhoid (Widal's)		4	1	3
Total		78	13	65

A rather larger percentage of swabs examined for diphtheria were found to be positive, than was the case during the previous year. This is no doubt accounted for by the fact that diphtheria was more prevalent in the Borough.

The fact that all the 27 samples of sputum examined for the tubercle bacillus gave a negative result, is very unusual. In seven of the specimens examined during the previous year, the tubercle bacillus was found to be present.

One sample of sputum examined was found to contain cells indicative of the presence of malignant disease.

The two specimens of blood examined were from the slaughterhouse.

Disinfection.

There having been a greater prevalence of notifiable infectious disease in the borough during the year, a much larger amount of work under this heading was necessary than during the previous year.

The disinfecting apparatus is by Messrs. Goddard, Massey and Warner, and is situated at the Borough Fever Hospital.

The number of articles of bedding, clothing, &c. disinfected therein by steam was 13,443 against 6,072 during the previous year.

For fumigation purposes, fomaldehyde is now invariably used, and 1,141 rooms in private houses were so disinfected, against 549 during the previous year. In a few cases also, the formalin spray has been used.

It was not however found necessary to fumigate so many schools as during the previous year, and only 10 rooms in the infants department of one elementary day school were so disinfected.

Strict attention has been paid during the year to the disinfection of any library books found in infected houses. There is a special apparatus provided for this purpose at the Hall Street Depôt.

Disinfecting fluid is supplied free of charge to infected houses, and a much larger quantity was distributed than during the previous year. Disinfecting powder is also supplied free of charge on application at the Hall Street Depôt,

Schools and Infectious Disease.

Although there was a greater prevalence of notifiable infectious disease during the past year, the Borough was comparatively free throughout the year from those infectious diseases which are non-notifiable.

It is the occurence of the latter which most frequently necessitates school closure, consequently there was much less interference with the work of the elementary day schools than during the previous year, in fact it was not found necessary to close a single school during the year under review.

The following table gives a list of the schools affected with scarlet fever and diphtheria, and shows the number of cases reported in connection with each school.

Name of School		Scarlet Fever	Diphtheria	Total
St. Augustine's		15		15
Portland Road		31	5	36
Battinson Road		9	3	12
Moorside		5	2	7
St. Joseph's		29		29
Haugh Shaw		7	2	9
Warley Road		14	1	15
Boothtown		29	19	48
Pellon Lane		17	1	18
Parish Church		24		24
Luddenden		1	1	2
Akroyd Place		23	2	25
Lee Mount		21	5	26
Queen'sRoad		10	4	14
Siddal		5	5	10
Holy Trinity	***	30	4	34
Parkinson Lane		16	ī	17
Salterhebble		5	2	7
Sunnyside		21	v	21
St. Maries'		6	2	8
Council Secondary		6		6
Caddy Field		3		3
Christ Church, Pellon		• 1	1	2
Mechanics' Institute		2		
Bermerside		4	1	2 5
Northowram		1		1
Bradshaw		T	***	1
Private School		i		1
Tota	1	337	61	398

There were 128 cases of diphtheria reported, and as will be seen from the above table, 61 of those were of school age. This is a slightly larger percentage than was the case during the previous year.

With reference to scarlet fever, out of 545 cases reported, 337 were children of school age, which is also a slightly higher percentage than occurred during the previous year.

It would appear therefore that school influence had rather more to do with the spread of these diseases than was the case during the year 1908.

A large number of suspicious cases of fever were reported to this department by the education officials. These were all visited as soon as possible, and in connection therewith I paid 41 visits myself to various parts of the Borough. In this way several cases of infectious disease were discovered, which otherwise might have escaped detection.

Furnished Rooms, Houses Let in Lodgings, House-to-House Inspection.

Houses let off as furnished rooms are now included among houses let in lodgings, section 90 of the Public Health Act, 1875 having been extended to include these by the Halifax Corporation Act of 1905.

The Bye-laws made by the Council with respect to houses let in lodgings, have been satisfactorily carried out during the year.

The number of furnished rooms in the borough was 156 against 163 during the previous year.

They have been kept under supervision by the sanitary inspectors, who paid 355 visits during the year to these premises.

The work of house to house inspection was continued during the year, and 1,776 houses were inspected. The number of defects of various kinds found in connection therewith was 286, and the percentage of houses found to have defects of some kind or other was 16.7. These included 125 defects in connection with drainage or a percentage of seven. In two cases only was there any overcrowding discovered.

Meteorology.

The meteorological station is situated at Belle Vue, and has an altitude of 625 feet above sea level. Mr. Green, the Chief Librarian of the Public Library has charge of the station.

The instruments under his charge do not include a Sunshine Recorder, nor an Anemometer for registering the velocity of the wind.

Mr. Green has supplied me with a general summary of his observations, which are given on the next page

The summer of 1909 was wet and cold, rain falling on 199 days during the year, and the amount collected was 35.69 inches, against 30.65 during the previous year, and is the highest recorded rainfall since the year 1903.

General Summary of Meteorological Observations taken at the Public Library, Belle Vue, from January 1st, 1909, to December 31st, 1909.

By E. GREEN, LIBRARIAN.

LATITUDE OF STATION - 53° 43'N.

LONGITUDE - 1° 52°W. HEIGHT ABOVE SEA LEVEL - 625 FEET.

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January 30·079 1·502 49·2 17·5 31·7 41·9 31·7 10·2 36·6 32·9 188 2·3 3 91 549 52·6 27·9 2·2 4 1 1 1 0 2 6 18 11 8 7·0 15 2·09 The observation of the february 30·164 1·176 50·8 24·9 25·9 42·2 31·1 11·1 36·4 33·2 1·190 2·2 3 89 551 57·8 26·9 1·7 5 8 1 3 4 2 2 11·1 11 6·9 11 1·45 been reduced to March 29·498 0·996 53·2 22·2 31·0 41·0 31·0 10·0 35·9 34·5 1·195 2·3 2·95 540 66·3 12·1 0 7 3 5 1 4 3 8 13 7·3 21 3·27 values by G April 29·993 1·054 6·67 28·9 36·8 53·1 36·4 16·7 44·7 39·1 23·7 2·8 6 80 538 91·8 32·5 2·5 0 3 5 7 3 12·8 10·2 5·2 11·1 11·1 6·9 11 1·45 been reduced to March 29·49 10·0 4·6 6·7 28·9 36·8 53·1 36·4 16·7 44·7 39·1 23·7 2·8 6 80 538 91·8 32·5 2·5 0 3 5 7 3 12·8 10·2 5·2 1·1 31·0 4·5 10·2 40·8 4·1 10·1 10·1 4·3 4·3 4·2 1·1 4·3 4·3 5·3 39·1 4·4 10·8 11·1 4·3 5·3 4·4 10·8 11·1 4·3 5·3 4·4 10·4 11·1 4·3 4·3 5·3 4·4 10·4 11·1 4·3 4·3 5·3 4·4 10·4 11·1 4·3 4·3 5·3 4·4 10·4 11·4 4·3 5·3 4·4 10·4 4·3 4·4 4·5 13·4 4·3 4·4 4·4 4·4 4·4 4·4 4·4 4·4 4·4	Month	5.8	Range	Highest	Lowest	Range	Of all Highest	Of all ,	Lowest	Davily Range	Air	Dew Poin	Elastic P	Mean	Short of Saturation	Mean H) (Ss	Mean	Maxim in Se	Minim on Gr	Yotima Streng	N.	N.E.	E.	S.E.	S.	s.w.	w.	N.W.	Calms	Mean	Number o	Amou	
December 29'647 1'824 51'6 19'9 31.7 41'6 30'0 11'6 36'5 34'5 '197 2'3 '3 90 541 48'7 24'5 1'7 1 7 4 0 0 9 14 9 9 7'4 26 5'64 Instruments em	February March April May June July August September October November November	30·079 30·164 29·498 29·923 30·064 29·970 29·985 29·983 30·003 29·709 29·998	1:502 1:176 0:996 1:054 0:972 1:096 0:862 0:856 1:264 0:998 1:268	50.8 53.2 65.7 75.4 64.7 70.5 79.8 63.5 68.4 54.5	24.9 22.2 28.9 31.1 35.3 41.1 44.9 36.5 25.0 26.5	31.7 25.9 31.0 36.8 44.3 3.29.4 29.4 34.9 34.9 34.9 34.9 34.9	41:5 42:5 41:0 41:0 53:5 56:5 60:0 63:0 56:1 54:1 0 45:4	9 3 2 3 0 3 1 30 5 38 8 42 6 50 5 44 2 43	11.7 11.1 11.0 16.4 19.3 12.7 19.2 10.1 15.3 13.2 15.9	10°2 11°1 10°0 16°7 17°2 14°1 11°4 13°5 11°2 11°0 9°5	36.6 36.4 35.9 44.7 48.7 49.8 58.0 57.5 50.3 48.7 40.7	32·9 33·2 34·5 39·1 40·8 44·7 44·8 52·5 48·3 44·8 36·9	188 190 195 237 256 297 297 393 342 299 219	2·3 2·2 2·3 2·8 2·9 3·5 3·3 4·4 3·8 3·3	3 3 2 6 12 6 27 10 4 5	89 95 80 72 83 55 81 91 86	549 551 540 538 535 533 520 524 532 530	52.6 57.8 66.3 91.8 97.2 98.0 105.2 103.2 83.5 82.8 60.3	27·9 26·9 32·5 32·2 37·9 42·8 41·0 36·2 33·2 26·1	1.7 1.2 2.5 2.3 2.1 2.3 1.9 1.8 2.6 1.4	10 0 4 11 3 4 8 0	7 3 6 13 4 2 15	1 1 3 5 8 5 0 0 5 0 0 4	3 5 7 4 1 0 1 2	1 10 1	2 4 12 7 4 12 10 2 17 7	2 3 8 8 6 14 19 8 10 7	11 8 10 4 8 17 11 6 7 18	11 13 2 4 1 0 3 4 3 5	6.9 7.3 5.2 4.5 7.7 6.9 5.8 8.0 6.1 6.9	11 21 17 13 15 20 16 14 22 9	2·09 1·45 3·27 3·10 2·36 2·50 4·33 2·78 3·06 4·00 1·11	Barometrical & Diurnal Range Tables, and the Hygrometrical results have been deduced from the seventh edition of Hygrometrical Tables,
Annual Means 29'918 1'155 62'3 29'5 32'8 51'1 38'8 12'3 45'3 40'6 '259 2'9 '7 83 536 78'9 32'8 2'0 5 6 3 2 3 8 10 10 5 6'6	Annual Means	29.918	1.155	62:3	29.5	32-8	51	1 38	8.8	12:3	45.3	40.6	.259	2.9	-7	83	536	78-9	32.8	2.0	5	6	3	2	3	8	10	10	5	6.6			

Earth Thermometer, four February 40.2°; May 46°; August 54°; November 46.4°; feet below surface. March 39'3°; September 53°; December 42.6°. June 49°;

Lowest Readings - March 7th to 26th.

The following table gives the rainfall for the past 16 years.

Year	Number of Days Raiu Fell	Amount of Rainfall
		inches.
1894	158	30.31
1895	149	33.78
1896	172	32.02
1897	187	29.72
1898	182	29.49
1899	153	35.33
1900	205	39 68
1901	179	29.41
1902	191	28.03
1903	219	44.25
1904	191	29.32
1905	187	25.94
1906	207	33.84
1907	208	34.00
1908	184	30.65
1909	199	35.69

The rainfall is also collected at 10 stations distributed over the gathering grounds of the Halifax Corporation Waterworks, and the following table shows the amount collected in each case.

HEIGHTS ABOVE SEA LEVEL IN FRET.

1909	* Walshaw Et Dean 08	* Midgley Woor Moor	* Warley Moor 9581	1375 Noor *	Walshaw Dean Lodge 6	1050 doppiM	Castle Carr I Lodge 0901	Ogden 66	Ramsden 8 Wood 91	Albert 62	Gibbet 89
	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins,	ins.	ins.
January	2.75	2.81	2.69	3.16	3.02	2.17	2.42	2.36	2.02	1.96	2.30
February	3.44	2 61	2.72	3.56	3.97	3.13	2.57	2.27	1.71	1.93	1.76
March	3.40	3.47	3.21	4.02	3.58	3.10	3.26	3.46	2.86	3.10	3.38
April	3.81	3.95	4.07	4.47	4.10	3.76	3'81	3.96	3.67	3.22	2.96
May	2.64	3.02	2.83	3.29	2.53	2.49	2.90	2.87	2.87	2.50	2.41
June	2.80	2.75	2.90	2.96	2.79	3.11	2.72	2.73	2.35	2.56	2.49
July	6.53	5.64	5.79	5.90	6.86	6.33	5:34	5.17	4.82	4.50	4.39
August	4.18	3.26	3.48	3.72	4.25	3.84	3.68	3.30	2.97	2.75	2.69
September	3 45	3.91	3 89	3.96	3 34	2.92	3.77	3.70	3.13	3.20	3.12
October	5.35	5.06	5.00	4.90	5.80	5.03	4.83	4.39	4.66	4.32	4.11
November	2.13	1.67	1.82	1.92	2.32	1.57	1.71	1.64	1.28	1.21	1.10
December	6.36	5.76	6.02	6.07	6.62	4.86	6.06	6.12	4.75	5.57	5.90
Totals	46.84	43.91	44.42	47.93	49.18	42.31	43 07	41.97	37.09	36.82	36-61

Average rainfall over	all the gauge	s, 1909	 42.74
Do.	do.	1908	 37.47
	Diffe	rence	 5.27

The average rainfall collected at the above stations is always greater than that of Halifax, the difference for the year under review being 7.05 inches.

The average increased rainfall for 1909, over the Halifax gathering grounds was 5.27 inches, as the above table shows.

Miscellaneous Matters.

I paid regular and daily visits during the year to the Borough Fever Hospital and the Goux Depôt, and from time to time to the Smallpox Hospital, Hall Street Depôt and Ovenden and Warley Stables.

I paid 47 visits in various parts of the Borough to examine suspicious cases of infectious disease, and on 6 occasions met the family Doctor in consultation thereon.

The tips situated at Birks Hall, Southowram and Charlestown were visited and inspected by me on 15 occasions during the year.

I paid 30 visits to various parts of the borough for the purpose of generally inspecting the same. Ten visits for the purpose of inspecting the conditions of drains, and the sanitary condition of houses to give advice thereon.

I paid 9 visits to the slaughterhouse and wholesale market, chiefly for the purpose of inspecting meat, and to give advice as to seizure, &c.

The common lodging houses were visited on 6 occasions by me to inspect the sanitary conditions of the same.

In June last I attended the National Conference for the Prevention of Consumption, on behalf of your committee, which was held at Whitechapel. I made a report at the time thereon, which was published in the Minutes of the Council, and therefore it is not necessary to reproduce it here.

On April 2nd last I was requested to give evidence before the Departmental Committee of the Local Government Board, to enquire into the value or otherwise of the intercepting trap. I accordingly attended to give evidence before that Committee.

Borough Fever Hospital.

On January 1st, 1909, there were 12 cases of Enteric fever, and 20 of Scarlet fever, a total of 32 patients remaining in the hospital from the previous year, and there were admitted during the year 388 cases, including 25 from outside districts, against a total of 208, which included 36 non-residents during the previous year.

The following table shows the number that were admitted from each disease, and the mortality from the same.

Disease	Number Admitted	Deaths	Case Mortality per cent.
Diphtheria Scarlet Fever Typhoid Fever	27 340 21	8 10 6	29·6 2·9 28·5
Total	388	24	

During the previous year the case mortality per cent of diphtheria was 19.2, scarlet fever, 1.3, and typhoid fever 11.1.

It will be observed therefore that the deathrate in each case was greater than during the previous year.

There were a much larger number of cases admitted during the year, and a larger number of a more serious type, hence the increased mortality. There were 7 cases which died within 24 hours after admission, and the deathrate was consequently increased thereby.

Two of the deaths from typhoid fever which occurred in the hospital were of persons not belonging to the borough.

The following table shows the number of cases that have been admitted to the fever hospital since the year 1881.

Year	Small-pox	Cholera	Typhus Pever	Typhoid Fever	Scarlet Fever	Diphtheria	Others	Total
1881	16			17	34		2	69
1882	13		3	24	15		5	60
1883			3 2	26	8		2 5 5 2 4 3 1	43
1884	2			29	23		2	45
1885	15		1	16	23		4	59
1886			1000	18	24		3	48
1887	3 5 4			18	54		1	76
1888	5		1	25	28		7	66
1889	4			54	33			91
1890	1970			35	39		7	81
1891		1		47	47		7 6 1	101
1892	188		1	17	15		1	222
1893	340			4	1			345
1894	15			15	39		1	70
1895				39	25		7	71
1896				56	30		20	106
1897				32	237		3	272
1898				28	341			369
1899				38	515			553
1900	3			44	250		9	306
1901	3			18	597	12	43	633
1902	1			30	365	7		403
1903	140			24	219	17	4	404
1904	84			22	349	25	6	486
1905	57			29	246	22		354
1906				20	110	30		160
1907				43	42	45	1	131
1908				- 36	145	26	1	208
1909				21	340	27		388

As the above table shows, a larger number of cases were treated in the hospital during 1909 than in any year since 1904, and this has been done without at any time overcrowding the wards.

The possibility of treating so many cases in the hospital without any overcrowding, has chiefly resulted from the fact that patients suffering from scarlet fever are now discharged at a much earlier period than used to be the case. Formerly these cases were detained for a period of eight weeks, then it was reduced to six weeks then five and now where the cases are mild and quite uncomplicated, some are discharged at the end of four weeks.

We pay much less attention to the question of desquamation than formerly, in fact cases are frequently discharged before peeling is completed.

This arrangement enables a much larger number of patients to pass through the hospital in any given year, than formerly was the case, and it also considerably reduces the cost of maintaining patients therein.

I may also add that experience shows that patients as now discharged, are quite as free, if not even freer from infection than when they were detained in hospital for longer periods. The number of return cases if anything, is less than was the case at that time.

In conclusion I desire to record my appreciation of the manner in which the hospital has been managed throughout the year by the Matron, Miss Robison, and of the unremitting care and attention which the nurses bestowed upon the patients treated therein.

Medical Inspection of School Children.

Under section 13 of the Education (Administrative Provisions) Act, 1907, there was no regular and systematic inspection of school children carried out during the year.

Arrangements have however now been made for this work to be carried out.

The Board of Education has sanctioned my appointment as Schools Medical Officer. Dr. Taylor has been appointed as full time Assistant Schools Medical Officer, and the services of Dr. Hunt have been retained to assist in this work, and also to do special work in connection with the medical inspection of school children.

The work of systematic inspection was commenced early in the current year, and in my next annual report, I shall be able to give detailed information regarding this work.

Dr. Hunt carried out the usual amount of inspection during the year under review, and made a report to the Education Committee as follows:—

"The Schools have suffered as usual in the past year from Epidemic Sickness, 873 children being excluded by the Sanitary Authority, while the prevalence of Measles and Chickenpox accounts for the absence of many more.

Ophthalmia is still present, but to a much less extent and in a mild form.

356 children have been examined at the Office as to their fitness for School. Of these 122 were found fit; 40 were delicate, suffering from Catarrhs or some ailment which made it inadvisable to insist on regular attendance; the remainder were unfit altogether. Of these 35 had Ringworm, 14 Ophthalmia, 6 the Itch, 25 Unclean Heads, 2 Consumption, 11 St. Vitus' Dance, 1 Heart Disease, and 3 Epilepsy; 1 was Blind, 1 Deaf, and 6 Mentally defective.

31 Candidate Pupil Teachers were examined—22 girls and 9 boys, a separate report upon whom was sent to you.

On my visits to the Schools I found various defects about which circulars have been sent to parents in 250 instances. There were 122 cases of Defective Vision and 7 of Inflamation of the Eyes, 41 of Deafness, 14 of Enlarged Tonsils and 16 of Adenoids; 9 of Obstruction in the Nose, leading to defective speech; 23 of Discharging Ears; 21 of Ringworm; 10 of Irregular Teeth 5 of Bowlegs.

As regards the Special Class in Parkinson Lane, 24 are in attendance; 5 were admitted during the year and 5 were discharged. Of these 5, 3 have gone to work, 1 to ordinary School, and 1 has left the town. A Class for Stammerers was held at the end of the year, attended by 8 boys all of whom were much improved.

Of the Open-Air School, which absorbed much of my attention in the Summer, I need say little, because a special report has been prepared. In accordance with the requirements of the Board of Education, a detailed record was kept of each child, at least three examinations being made in each case. The more constant supervision enabled their defects to be more certainly discovered, and the presence of a Nurse secured the treatment of certain conditions, e.g., the syringing of ears and bathing of inflamed eyes, which are often neglected in poor homes. About a dozen of these required daily attention. In eight children there was need for the removal of adenoids, and in some cases the parents complied with the request to have them attended to. In 28 children teeth needed extraction, and notices were sent to their parents. In comparatively few cases were these attended to until the Nurse offered to take them to the Infirmary, and then only four parents objected. This, I think, shews it is want of time or indifference that leads to so many notices being ignored.

At the end of two months many of the children were so well as to be in no need of further special treatment, and were certified fit for ordinary School. Others had to leave on account of infectious disease at home, so there was no need to reject any bad case from want of room. On the other hand, when the time for closing the School arrived, some of the children were far from strong, and in need of further treatment on the same lines.

T. H. HUNT, M.D. (Lond.) "

Notification of Births Act,

This Act has been in force in the Borough for about 1 year and 10 months. The number of births notified during the year under review was 1700.

During the same period 1,840 births were registered, so that 92 per cent. of the births were reported in accordance with the provisions of the above Act, a slight improvement on that of the previous year.

Now that the provisions of the above Act are known, I consider that a larger percentage ought to be notified.

During the year 56 still-births were reported, and according to the figures supplied me by the Registrars of the Cemeteries, 104 were buried, consequently it is evident that all the still-born children were not reported during the year.

Halifax Public Health Association.

The lady members of the above Association render most valuable assistance to the official Lady Health Visitor.

The Committee of the Association is constituted as follows:

Alderman T. Hey, Chairman, Health Committee.

Dr. J. T. Neech, Medical Officer of Health.

Miss Alice M. Thompson, Lady Health Visitor.

Mrs. E. N. Whitley, Lady Superintendent.

Mrs. C. Smithson, ,, ,

Mrs. Haddon, ,, ,,

Mrs. E. H. Hill, ,, ,,

Mrs. Crabtree, ,, ,,

Miss Wright. Mrs. Ward. Mrs. Drury. Mrs. A. Clay.

Mrs. G. H. Smith. Mr. A. W. Whitley.

Mrs. Hack.

The ladies of the Committee meet monthly to transact the business of the Association, to which Miss Thompson acts as Secretary. In order to assist the work of the voluntary assistant lady helpers, the Borough is divided into the following five districts, a lady Superintendent having charge of each district.

The following table gives the names of the lady Superintendents and their respective districts.

District	Lady Superintendent
Ovenden, Pellon and Kingston Wards	Mrs. E. N. Whitley
Akroydon and North	
Wards	Mrs. C. Smithson
Central and West Wards	Mrs. Haddon
South and East Wards	Mrs. E. H. Hill
Skircoat and Southowram	W 0 1
Wards	Mrs. Crabtree

The following are the names of the assistant Visitors:

Mrs.	Simpson	Mrs.	Hepworth	Mrs.	W. Clark
,,	Seed	,,	Taylor	,,	Greenwood
,,	Lumb	,,	Hack	,,	Mitchell
,,	Bentley	,,	Bottomley	,,	Winks
,,	Wilson	,,	Balme	,,	Hogg
,,	Smith	,,	Watkins	,,	Parkinson
,,	Meskimmon	,,	Sunderland	,,	Clark
	Ackrovd				

The number of visits paid by the assistant Visitors in the various districts were as follows:

Ovenden, Pellon and Kingston Wa	rds 230
Akroydon and North Wards	450
Central and West Wards	186
South and East Wards	120
Skircoat and Southowram Wards	247

Lady Health Visitor's Report for 1909.

Miss A. M. Thompson, the Lady Health Visitor has submitted to me the following report.

In presenting my report for the year, I am convinced that the Health Association is doing a good work.

I have not so many cases to report as last year, as we have been concentrating our efforts upon the very poorest houses. Instead of passing every case visited by myself on to the Lady Visitors, only those that really need visiting have been so dealt with, as the committee thought it quite unnecessary to visit homes where the mother could, and did look after their infants in a satisfactory manner.

Of the 1,700 births notified, 937 were attended by medical men, or 55 per cent, against 52 per cent during the previous year, and the rest by midwives. I have visited 727 notified births. Out of this number 702 were breast fed, 25 only being bottle fed. A very large proportion of the infants are breast fed for 12 months.

In connection with my work I have found 179 houses fairly clean, 80 dirty, and the remainder clean.

I have paid 1,868 visits in all.

I have weighed infants during the year, where the mother has approved. Some are very superstitious and think their babies will die, others are delighted. Out of 95 infants weighed, I obtained the following results:—

2	weighed	11	lbs.
2	,,	10	lbs.
22	,,	9	lbs.
32	,,	8	lbs.
17	,,	7	lbs.
13	,,	6	lbs.
7	,,	5	lbs.

The Annual Meeting of the Association was held in the Council Chamber of the Town Hall, on April 29th, Dr. Neech presiding. Dr. Margaret Ross gave an interesting and instructive address on the work of the Huddersfield Association.

The Babies Welcome Club is making steady progress. Mrs. G. H. Smith kindly allowed us to have the Annual Meeting at the Gleddings. About 60 were present. Dr. Muir gave an interesting address on the "Feeding of Infants." 28 members have joined the club during the year.

The supervision of the midwives is having a beneficial effect, many mothers testifying to the more regular attendance and better attention in every particular. I constantly meet them out, and as a rule find them very clean. I have paid 191 visits on this work.

As a result of my visits, I obtained the following particulars relative to the midwives case books.

	Case Books,									
Number on Register.	Well kept.	Fairly well kept.	Not up-to-date	No case book						
28	14	10	2	2						

With reference to the two who did not possess a case book, one is employed as a monthly nurse, and the other only attends her own relatives when necessary, having really ceased to practice.

We had a very successful meeting of midwives at Mrs. C. Smithson's house on July 6th. Dr. Dora Mann addressed them on "Surgical cleanliness in Midwifery." They seemed thoroughly interested, and asked questions after the address. I consider that if we are to get the best work out of the midwives, we must let them feel we are interested in their work.

I have persuaded about 18 of them to take in a monthly paper called the "Midwives Record." In this way they will be kept up-to-date, and in touch with the work done in other parts of the country.

There were 28 midwives registered during the year, two out of this number being qualified by examination, the rest through long practice. The old ones are gradually dropping out, two having died, and two ceased to practice.

I have supplied nourishment, in the way of cocoa, milk and oatmeal, to 84 poor maternity cases.

We hope in the near future to have a special nourishment fund for mothers, tickets being supplied to really needy cases, enabling a mother to get one nourishing meal a day, for a fortnight after her confinement. This scheme is at present under discussion.

The following is a list of the midwives registered at the Health Office during 1909.

Name.	Address.
Jowett Sarah Alice .	27, New Bank
Crowther Hannah Elizabeth	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Buckley Mary Ann .	8, Wainhouse Terrace
36 1 173	16, Cherry Street
Ogden Emma	6, Ingram Street
Shelley Emelina	6, Ellen Royd
Robinson Mary Ann .	. 14, Ashbourne Grove
Smith Clara	40, Winding Road
Fielden Louisa	33, Commercial Road
Wade Hannah	10, Clog Yard, King Cross
Crossley Hannah Holroyde	25, Fairview Terrace
Wilson Elizabeth Ann .	I, Shoesmith's Buildings
Crabtree Isabella	31, Bright Street
Connew Sarah	23, Clay Street
Wood Mary Elizabeth	9, Fern Street, Boothtown
Sutcliffe Ellen	6, Spindle Street
Hargreaves Mary Ann .	I, Cleveland Avenue
Aaron Hannah	7, Lane Ends, Wheatley
Smith Emma	21, Causeway Foot
Halstead Frances Ellen .	3, Aspinall Street East
Lake Lucy	14, Kell Lane
Milner Mary Hannah .	8, Chesnut Street
Hitchen Phœbe Alice .	66, St. Peter Street
Turner Elizabeth	7, Highroad Well Court
	13, Exchange Street
	38, Chesnut Street
	47, St. Stephen Street
Warren Harriet	17, Spring Grove, Newstead

Veterinary Inspector's Report.

In connection with the above report, I desire to make one or two observations.

During the past year the question of the necessity of boiling milk before use has been raised. It is stated not to be necessary, and that the milk is injured as an article of food by the process.

I quite admit that boiled milk may not be quite so digestible, and may not be quite so good in other ways for the diet of children, as fresh and pure milk direct from the cow, and unboiled. In my opinion however the alleged dangers in connection with boiled milk have been very much exaggerated. Could a pure and perfectly clean milk supply, quite free from pathogenic organisms be obtained, I would prefer such milk, and would consider boiling unnecessary. But a milk supply of this character can scarcely be said to be on the market, consequently it is necessary to choose the lesser of two evils, and boil the milk before it is used.

Any one who has made any observations on the question, is conversant with the fact that when milk is allowed to stand for a prolonged period, the sediment in the vessel contains more or less filth and dirt. In fact, did a towns water supply contain as much extraneous organic matter as is found in some samples of milk, and of a similar nature, and did it contain as many organisms of a similar kind to those present in many of those samples, it would be condemned as being unfit for domestic use.

Mr. J. Pollard, M.R.C.V.S.: D.V.S.M. has submitted the following report:—

Dairies, Cowsheds, and Milkshops.

The number of cowsheds and milkshops on the register are as follows:—

 Cowsheds

 507

 Milkshops

 55

 Total
 562

The total during the previous year was 577, being a decrease of 15.

There were 392 Dairy Farmers and purveyors of milk on the register, against 393 for the previous year, a decrease of one.

In accordance with the usual practice, a further number of cowsheds which did not conform to the Regulations, were selected for alteration or reconstruction, and during the year under review, nine cowsheds were so dealt with. This number, together with 91 previously reported on, make a total of 100 cowsheds which now comply with the requirements of the Regulations.

It is necessary to draw attention again to the question of cleanliness in dealing with the milk supply, as some appear to be utterly careless and indifferent in that respect.

I should like to see washable overalls more generally in use during the milking process than is the case.

It is pleasing to be able to meet the arguments of those who say it is impossible to keep the cows as clean as desired, by being able to take them to a few places where those obstacles are overcome.

With regard to the question of hair and dirt getting into the milk,—apart from the previous cleansing of the udder,—I do not consider the concave flange on the ordinary milking can an advantage, as hair and dirt fall from the udder during the process of milking, collect on the flange, and afterwards become mixed with the milk. A detachable convex flange to fit closely on the rim of the milking can would be much preferable, and prevent that.

I have noticed that some of the purveyors of milk do not appear to give the consideration to the vehicles used for its conveyance, which is due, some being in a very dirty and dilapidated condition. I have seen box carts with evidence of having been used for general farm purposes, used for the conveyance of milk. Suitable vehicles should be kept for that purpose solely.

Very few of the wives and daughters of the farmers in this district milk, a fact to be regretted, as speaking generally they are much tidier and neater than men.

It is to be regretted that the Government withdrew their Milk Bill, likewise the Board of Agriculture the Tuberculosis Order as the latter would have given the Local Authorities control of cattle clinically tubercular, and thus prevent trafficing in that class of animal, and possibly further loss to the owner.

Cases have occurred where milk from a cow which has turned out to be tuberculous, has been given to pigs unboiled, and the result has frequently not been considered until the disease was detected when they were slaughtered.

In the course of examination of the udders of cows, cases do occur where there is insufficient evidence to enable one to express a definite opinion, and even the microscopical examination of the centrifugalised deposit of milk is unsatisfactory, as the Tubercle baccilli are frequently difficult to find.

In those cases, the inoculation of guinea pigs has to be resorted to, and I would strongly urge that arrangements be made for that test to be applied.

During the year under review I paid 441 visits, and the Inspector for Illingworth district 538 visits, a total of 979 to the various cowsheds within the borough, and the District Inspectors paid 142 visits to the registered milkshops. In consequence of these visits a total of 112 defects were discovered and reported, and 98 remedied as the following table will show.

Nature of Defects			Number Reported	Number Remedied
Want of Light			11	11
Do. Airspace			6	5 9
Do. Ventilation			10	9
Privies abutting on Cowshe	ds		2	
Defective, Made-up, and	Untrapp	ed		
Drains			5	3
Defective Floors			20	14
Dirty Stands and Floors			2	2
Cowsheds requiring Limew	ashing		38	40
Pigs kept in Cowsheds			2	2
Accumulations of Manure			3	2 3 7 2
Overflowing Liquid Manur	e Tanks		5	7
Defective Middensteads			8	2
Total	for 1909		112	98
No. of Defects on books, Ja	n. 1st, 19	09	191	
	Total		303	
No. of Defects on books, De	c. 31st, 19	909	205	

During the year 1561 cows have been individually examined, against 1363 during the previous year.

Ten were found to have diseased udders, two of which were tuberculous. One cow was destroyed, the other removed outside the borough, destination unknown.

Details of the above inspections are set out in the following table.

		Remarks		1 Cow sick	Floor defective							1 Retaining placenta											Overcrowded		Tubercular cow sent to knackers			
NO OF CATTLE.		Condition of Shed		2 Poor; 1 moderate	Good		6	n, en					Moderate	Poor	Moderate	Good	Foor	, n	Medanti moderate	Moderate		Poor	**			Good	Moderate	
INSPECTION	Cattle and Condition	General Condition		Good	Fair	Transfer one trailer	Good	Fair	Good		Fair	Good	Fair		Good	2. 1	Fair	**					4	10 Fair; I poor clinically	tubercular	Cood		
		Udders																										
		Number		-		9 0					9 12		0		31		20 0				-		3 25					
	oi	Io. of Fol				136		_		3 172			_		_		_					_		210			114	
		Date of Inspection	1909.	Jan. 7	:	,, 1		2 30	00	30	∞		200	,, 13	., 14	., 14	,, 14	., 21	., 21	,, 21	,, 21	,, 21	,, 21		000	67	.: 29	

1 Sick after calving 1 Cow with Mammitis of one quarter 1 Udder tubercular 1 Sick, cold Deficient light and space Overcrowded Floor defective, in one
Moderate Poor Moderate Noderate Moderate Moderate Cood Moderate " " " " " " " " " " " " " " " " " "
Fair 6 Poor and dirty; 5 fair Good and very clean Fair Good Fair Fair Fair Good Fair Good Fair Good Fair Fair Fair Fair Fair Fair Fair Fair
8 0 2 2 2 3 2 3 2 3 2 3 2 3 3 3 3 3 3 3 3
22 22 22 22 22 22 22 22 22 22 22 22 22
220000111111111111111111111111111111111
Feb.

d.		Remarks															1 Cow sick								*				
Inspection of Cattle—continued.		Condition of Shed	1 Good; 1 moderate	1 Moderate; 1 poor	Moderate	1			2.	Good	Poor	1 Good; 1 moderate;	1 poor	1 Moderate; 1 poor	Moderate	2 Good; 1 poor	Poor	Moderate	Poor		Good, but dirty	1 Good; 1 moderate	Moderate	:	Bad	Good	Moderate	Poor	Bad
Inspection	Cattle and Condition	General Condition	Good, except one	Fair, one dirty	Fair	1 milet	Good, I with diffy udder	Fair	Fair, but dirty	Good		Fair, several dirty		G00d	Fair	Good	Fair	Good	Fair	Good	Good, but dirty	Good	Fair, but dirty	Fair	Good	-			:
		Examined Udders Diseased	6	6	9	- 0	, 4	41	-	1		00		9	000	67	1	4	9	-1	67	00	5	67	4	5	6	-1	4
	oi	No, of Fol	45	42	242	42	7.5	74.7	43	248		_						259										265	
		Date of Inspection	Mar. 4 2	,, 4 2	,, 4					-	-													26	26	96	. 1	1	,, 1, 2

ų,	
	1 Cow with Mammitis affecting one quarter Deficient in light Accumulation of manure and liquid tank overflowing Requires new middenstead Quarter Accumulation of manure
	Moderate 1 Good; 2 poor Moderate Cood Poor Good Noderate; 2 poor Moderate, but dirty Moderate Poor Moderate Thoor Moderate Thoor Moderate Thoor Thoor Thoor Thoor Thoor Cood Thoor Thoor Cood Thoor Thoor Cood Thoor Thoor Thoor Thoor Cood Thoor Thoor Cood Thoor Cood Thoor
	Good Fair, 2 dirty Fair, 2 dirty Fair Good, but few dirty Fair Excellent Fair; 1 poor Fair; 1 udder dirty Good " 7 Good; 1 poor Fair Cood " 7 Good " 7 Fair Cood " 7 Fair Fair Fair Fair Fair Fair Fair Fair
	24 811 481 491 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
-	200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	Apr

		Remarks					Floor defective			1 Retaining placenta	Accumulation of manure	2 12 12 12 12 12 12 12 12 12 12 12 12 12	1 Mammitis, floor defective	1 Mammitis		Poor one suspected Tuberculous,	and was sold	Dirty				Stands dirty	Sold. Unable to trace destination
Inspection of Cattle-continued.		Condition of Shed	Moderate	Good	1 Good; 2 poor	Moderate	Foot	Good	Poor	Good	I Moderate; 2 good Poor		1 Poor; 1 good	Poor	Moderate	* :	Poor	1 Moderate; 2 poor	1 Good; 2 poor	Poor, dirty	I Good; I moderate	Good	Poor
Inspection	Cattle and Condition	General Condition	Good	(H	Very good		Pood		Fair	Good	Very good Fair	***************************************	A	Good	Pair	4 Fair; 1 poor	Good	7 Good; 6 fair	Excellent	Good	Fair	: :	Thin Clinically Tubercular
		Udders Diseased											1										
		Number		9 5		CA		2 2			15					5 (0 4	
	01	No, of Fol	296	296	30			-	30	10	13		16	1	19	20	21	21	22	57.5	77 0	222	52
		Date of Inspection	May 14	,, 14	, 19	24	nune o		00	7		6	,, 14	,, 14	,, 16	:::	18	., 18	21	,, 21	21	21	., 22

	2 with dirty udders Middenstead too near the cowsheds Defective in light Not re-limewashed Not re-limewashed. Udder Mammitis *Clinically Tuberculous	Deficient ventilation. Not re-lime- washed Not re-limewashed
Moderate 1 Good; 2 poor Poor Moderate	Poor " Good, but rather dirty Moderate Bad Moderate Poor I Moderate; 1 poor Poor Good " Roderate " Moderate " Moderate " Moderate " Moderate " Moderate " Moderate " " " " " " " " " " " " " " " " " " "	Good, but dirty Moderate Poor Moderate
7 Fair; 1 poor Very good Fair Fair	Fair Good Fair Good Fair Good Fair Good Fair Good Fair Good Fair Good Fair Good Fair Good Fair	Fair Good Fair
, 00 00 1-1-	00001000010001000	_
82228	11122 11132 11132 113	119 128 128 129
3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Nov	
une .:		Dec.

		Remarks					1 Cow with Mammitis	*Consider Tuberculous, returned to	Vendor		Middenstead required						Deficient in space. Overcrowded				Accumulation of manure being	removed					
Inspection of Cattle—continued.		Condition of Shed	Poor	Moderate	Poor	Good	**		Poor	1001	1. Good: 1 poor	Moderate	Poor	Moderate	1 Good; 1 moderate	Good	1 Good; 2 poor	Poor and dirty	1 Moderate; 1 poor	Moderate and dirty	Moderate		Poor			Good, recently altered	1 Good; 1 moderate
Inspection	Cattle and Condition	General Condition	Good	Good, but dirty	Fair and clean	Fair		2 Good, *1 poor		110.4	Good, except one	Fair	Fair, one dirty	Good and clean	Fair	Fair, several dirty	Very good	Good	Fair	:				Good	Fair	Fair, one dirty	Good
		Examined Udders Diseased	23	9	6	15	11	00	4	4	17	9	2	4	11	14	13	67	6	13	9		4	67	4	9	6
	01	No. of Fol	129 2	129		_		133	133			134	139	139			140 1	141	141	141 1	141		141	141	42	142	42
		Date of Inspection	Dec. 9 1	_			, 13 1		15 1	120	16	., 16 1	23	23	53	53	., 29 1	30	30	30	30		,, 30 1	30	31 1	31	" 31

Slaughterhouses.

There are eight private slaughterhouses in the borough against nine last year, one having been discontinued.

Of the eight, three have not been used, to my knowledge, for the purpose of slaughtering during the past year. All have been kept in a fairly satisfactory condition.

During the year I have paid 1,097 visits to the public slaughterhouse, and the number of animals slaughtered during the year ended December 31st was as follows:

Cattle	Calves	Sheep	Pigs	Total
5,730	3,258	20,793	6,091	35,872

There were 513 separate seizures of meat and offal during the year, and the following table shows the number of carcases condemned and the total weight of the same.

	Cattle	Calves	Sheep	Pigs	Total
Number of Animals killed	5730	3258	20793	6091	35872
do. condemned	13	14	17	34	78
Weight of those condemned in lbs		740	812	3850	10152

In the following table the diseases and other conditions which led to the condemnation of the meat during the year are shown.

		Anthrax	Tuberculosis	Inflamatory	Partunition	Jaundice	Septicæmia	Excessively	Parasites Liver	Otherwise	Cadavers	Worried	
Cattle	 	1	5	1			1	2		3			1.
Calves	 		1	5				1		7	***		
Sheep				4					6	5	2	-	
Sheep Pigs	 		15	5	1	10				1	1	1	
Rabbits	 				8				1			140	1

In addition to the above there were 30 seizures of fish, fruit, &c., and the following table shows the weight of the various kinds of food destroyed.

Kind of	Food	destroyed		Weight in lbs.
13 Carcases of Beef				 4750
Beef not in Carcase		***	***	 325
14 Carcases of Veal	***		***	 740
34 Carcases of Pork				 3850
Pork not in Carcase			***	 1258
17 Carcases of Mutton				 812
Mutton not in Carcase				 . 9
17 Rabbits				 26
Fish				 2976
Fruit			***	 4467
Offal				 6884
Other food				 1203
		Total		 27300

There was considerably less fish condemned during the past year than for the previous year.

The total amount of meat destroyed on account of tuberculosis was greater than the previous year, and as in previous years was the chief cause for the seizure and condemnation of meat, as the following table will show.

	lbs.
Total amount of Meat destroyed	19,628
Total amount of Meat destroyed on account of Tuberculosis 5,372	
Total amount of Offal destroyed on account of Tuberculosis 6,042	
Total amount destroyed on account	
of Tuberculosis	11,414
Total amount destroyed from other causes	8,214

The greater part of the meat, fish, &c., destroyed during the year was voluntarily surrendered by the owner for destruction, and in only six cases was it necessary to get a Justice's order.

There were no prosecutions during the year.

Number of visits made during the year.

Description of Premises	Number of Visits.
Public Slaughterhouses	 1097
Private Slaughterhouses	 123
Borough Market	 347
Wholesale Market	 291
Fasting Sheds	 246
Potted Meat Houses	 258
Tripe Boiling Houses	 86
Butcher's Shops	 3238
Fried Fish Shops	 59
Cowsheds	 441
Other visits	 131
Total	 6317

In addition to the above, I have paid numerous visits in attendance on the horses of the Health Department, at the Hall Street and Goux Depôts, also visited the stables at Ovenden and Warley, and attended horses for other committees.

The Sale of Food and Drugs Act.

The Borough Analyst, Mr. J. A. Dewhirst, has presented the following report.

There were 215 samples of Food and Drugs analysed during the year 1909. The following table gives the number analysed etc., per 1000 of the population in some recent years.

YEAR	Number of Samples Analysed.	Percentage Adulterated	Estimated Population of the Borough	Number of Samples Analysed per 1,000 of the Population
1896	218	3.2	94,764	2.30
1898	211	3.3	96,729	2.18
1900	210	4.7	101,187	2.07
1902	217	8.7	105,978	2.04
1904	209	9.1	107,000	1.95
1906	230	10.4	108,000	2.13
1907	206	4.8	108,500	1.89
1908	213	7.5	109,000	1.95
1909	215	8.0	109,000	1.97

The proportion throughout the country has risen from 2.88 per 1000 in 1907 to 2.92 in 1908. This rise is constantly going on everywhere but in HALIFAX. At the general rate mentioned, viz., 2.92 per 1000, our samples in Halifax would number 318 per annum.

The following table shews the kind of samples, and the number of each dealt with, together with results of the analyses.

Article	Total	Genuine	Adulterated	Doubtful	Percentage Adulterated
Milk	148	139	9	0	6.1
Cream	6	6	0	0	0
Butter	6	6	0	0	0
Lard	7	5	1	1	1.4
Cheese	6	6	0	0	0
Beer	6	6	. 0	0	0
Peas (tinned)	2	2	0	0	0
Cream of Tartar	13	9	4	0	30.8
Vinegar (malt)	8	4	0	4	0
Sweet Nitre	6	4	2	0	33.3
Camphorated Oil	7	6	1	0	1.4
Totals	215	193	17	5	8.0

Only 11 classes of Food and Drugs were examined. All the milks were examined for preservatives and none found. No informal samples were taken. In Scotland many samples are taken irregularly, that is to say without all formalities and presence of an official. The result shows how much more adulteration is discovered in this way.

	Found Adulter	ated (per cent.)
Scotland. Samples in 1908	Formal Samples	Informal Samples
Milk	 14	29
Butter	 9	21
All articles	 10	21

The Local Government Board strongly recommends this method as mentioned in my report for last year (1907).

With regard to our samples, Milk remains at the same degree of adulteration as last year v.i.z. 6.1%. As to Cream, 5 out of the 6 samples taken contained Boric Acid, but not beyond the limit of '25%, though its presence should be plainly stated on the label. Of the Lards, one was wrong, but unfortunately no prosecution could result. The Cheese and Beer samples were beyond reproach, but the Tinned Peas contained a little The Cream of Tarter showed somewhat serious contamination with Lead and some Arsenic, whilst the presence of Copper was unexpected and has scarcely been recognised previously. Much Vinegar is more or less sophisticated nowadays and it would not be difficult to find some entirely artificial. Sweet Nitre continues its bad reputation but now is less widely sold. carelessly and of deficient strength.

The Camphorated Oil proved good, though one sample had evidently been prepared without due regard to the Pharmacopæia instructions.

As usual the prosecutions were mostly directed to milks and in one or two cases substantial penalties were inflicted. Detailed information of these will be found in another part by reference to the index.

Concerning adulteration generally in the country, attention has been drawn particularly to the bleaching of flour by nitrous fumes, produced either chemically or electrically. The 'facing' (polishing) of Rice with talc. The thickening of cream in various ways. The 'toning' of milk by addition of separated milk. The adulteration of milk with milk-powder (imported) and water, and the use of arachis oil in butter. Also the addition of paraffin wax to lard and the importation of spurious Cheshire and Cheddar Cheese from Holland.

The Local Government Board have issued more reports similar in character to those mentioned in my 1907 report, and which are most valuable, viz.:

- "Preservatives in Meat Foods packed in cans and glass."
- "Tin in Tinned Foods"
- "Facing of Rice."
- "Use of Formaldehyde in Preservation of Meat."
- "Use of Preservatives in Cream."

In connection with Tinned goods, it is urged that the place and date of preparation should be stated on the label, and that any two years old, or containing two grains of tin per pound, should be regarded with grave suspicion.

The Royal Commission appointed in February, 1908, to inquire into whisky and other potable spirits resumed its sittings in March after an interval of 7 months. Having expressed its conclusions on whisky it is now dealing with brandy.

The Fertilisers and Feeding Stuffs Act, 1906.

This Act which should have come into operation on January 1st, 1907, was taken up in Halifax during the last quarter of 1909, and four samples were subjected to examination, viz., two Fertilizers and two Feeding Stuffs.

The Act has been passed to operate against the gross adulteration which has been so common amongst these articles. Cattle foods have been frequently found containing large quantities of wood dust, plaster of paris, chalk, etc., and Fertilisers filled to any amount with worthless earths and ashes. The ordinary buyers were quite unable to discriminate between the good and the bad, and it was high time some means were adopted to protect them against fraud. By the provisions of the Act, an invoice or label must be given with every sale or package of Fertiliser or Feeding Stuff, such invoice or label stating the strength of the article in its essential ingredients, and having the force of a warranty. The buyer is now able to compare quality and prices, and become familiar with what should be standards. Deviation from the strengths stated on the invoice or label renders the seller liable on conviction to a fine not exceeding £20 for a first offence, and not exceeding £50 for any succeeding offence.

In the case of a Fertiliser, the percentages it contains of nitrogen, potash, soluble and insoluble phosphates must be stated, and in the case of a Feeding Stuff, the percentage of oil and albuminoids. Moreover the offering for sale of such articles implies on the seller's part that they are suitable for the respective purposes, wholesome, and in no way injurious.

The Act specifies its use of the word "cattle" (in reference to Feeding Stuffs) to include "bulls, cows, oxen, heifers, calves, sheep, goats, swine, and horses." I have obtained from the Board of Agriculture and Fisheries the opinion that the term does not include dogs, which is an omission that should be rectified; also that the term "poultry" includes ducks and geese, but not caged birds. This also requires amending. Many foods are sold for dogs and caged birds which need examination.

Many authorities are issuing leaflets to farmers and agriculturists explaining the advantages obtainable under the Act, and as the full cost of analysis is rather too heavy for a small buyer to bear—and it is chiefly the small buyer who is victimised—offering to bear the chief cost themselves, the farmer paying only a nominal fee. This arrangement is but little different from the common practice under the Food and Drugs Act, where a purchaser, thinking himself defrauded, brings a sample of the article to the Health Department for analysis and report thereon. It is to be hoped that Halifax will be one of these authorities.

The Board of Agriculture state that it is their wish that offical samplers should be authorised to obtain on their own initiative, samples of articles which they think should be analysed, and should not be limited to taking samples when a purchaser requests, and that to detect fraud in the district he should have authority to take a considerable number free of cost to purchasers and without notice to seller.

The Act has already had the effect of shewing that one of the most advertised Fertilisers is one of the weakest.

As regards the four samples analysed there were small deficiencies and omissions detected which should be rectified in future.

COUNTY BOROUGH OF HALIFAX.

THE

Sanitary Inspector's Report

FOR THE

YEAR ENDED 31st DECEMBER, 1909.

To the Chairman and Members of the Health Committee.

GENTLEMEN,

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

Town Hall, Halifax, May, 1910.

HEALTH DEPARTMENT.

Summary of Work done.

Total Number of Visits,	House-t	o-Hou	se Inspect	ion	2461
Furnished Rooms	Lodging 	Но	ouses and	d	417
Number of Visits to I Defective Drainage			reference 	to	7746
Number of Visits to Cleanliness, Overcro				to	390
Number of Visits to I		with	reference	to	2579
Rooms Disinfected			••• 0		1141
Cases removed to the H	ospital				388
Infectious Diseases repo	rted				766
Letters served (referring	to Nuis	ances,	&c.)		340
Summonses taken out					2
Smoke Observations tak	en				544
Old Ashpits altered to G	oux Sys	stem			15
Goux Closets registered.					63

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 nuisances registered, and work carried out after mere verbal notice.

	Nature of Nu	isances		Number Registered
Defecti	ive Sink Drains			 254
,,	" Pipes			 61
,,	" Syphon Tra	ps		 60
,,	Basement Drains			 91
,,	Yard Drains			 38
,,	Urinal Drains			 10
,,	W.C. Drains			 95
,,	Area Drains			 32
,,	Private Street Dr	ains		 2
Made-1	ip Sink Pipes			 124
,,	Sink Stones			 12
- ,,	Bath Pipes		***	 4
**	Lavatory Pipes			 6
,,	Basement Drains		***	 45
,,	Water Closets			 23
,,	Yard Drains		***	 46
,,	Urinal Drains		***	 4
,,	Gullies			 87
,,,	Private Street Dra	ains		 3
,,	Intercepting Trap	os		 15
Untrap	ped Basement Drain	15		 6
,,	Sink Drains			 96
,,	Area Drains			 24 .
,,	Yard Drains			 15
,,	Urinal Drains			 2

NUISANCES-Continued.

Nature of Nui	sauces.			Number Registered.
Untrapped Bath Pipes				2
,. Lavatory Pipes	•••			9
Drains not efficiently Trapp	ed:			
Sink Drains				34
Cellar Drains	•••	•••		11
Yard Drains				8
Area Drains	***			1
Sink Drains and Pipes requ	iring Disc	onnecting	•••	224
Defective Fall-pipe Drains	***			48
" Fall-pipes	***			112
" Spouting	***			116
,, Roofing				15
Broken Pot and Iron Traps				40
Insufficient Supply of Water	er to Closet	S	***	25
Nuisances from Water in C	ellar			77
" Want of Di	rains			21
,, Smoke				3
,, Swine				13
,, Poultry				7
" Rabbits				2
Houses Overcrowded				10
" requiring Limewash	ning			52
Accumulations of Offensive				59
Privies requiring Limewash	ing			66
Dirty Passages				31
Insufficient Privy Accommo	odation			37
Offensive Ashpits and Privi				57
" Goux Closets				210
		and the same of th		

NUISANCES-Continued.

Nature of Nuisances.		Number Registered.
Offensive Ash Tubs		449
Doors off Closets		17
,, Ashes Tub Places		23
Dilapidated Closets		62
Ashpits requiring Re-construction	***	41
Miscellaneous		77
Convert Goux Closets to Water Closets		30
COWSHEDS.		
Defective Drains	***	10
Want of Light, Room, Air Space, and Ventil	ation .	22
Dilapidated Cowsheds and Floors		17
Cesspools requiring Emptying and Defective		11
Offensive Middensteads		8
Cowsheds requiring Limewashing		26
		10000
FACTORIES AND WORKSHOPS.		
Defective Drains	**	4
Insufficient Privy Accommodation		3
Defective and Made-up Water Closets	***	8
Insufficient Ventilation and Light to W.C.'s		8
Goux Closets converted to Water Closets		4
Dirty Closets		7
Rooms insufficiently Ventilated		1
" requiring Limewashing		7
Defective Fall Pipes		2
Accumulations		1
Offensive Smoke		7

128
NUISANCES—Continued.

Nature of Nu	isances.			Number Registered.	
BAKEHO	BAKEHOUSES.				
Bakehouses to Limewash			****	29	
Insufficient Ventilation	***			1	
Dirty Sink				1	
,, Closets				3	
Drain Opening inside Bake	ehouse			1	
Sink Pipes to disconnect				2	
Dirty Floor				1	
Made-up Drain			***	1	
Defective Sink Drains	7		***	2	
,, Fall Pipes				1	
,, Roof				1	

At the close of the year there remained on the books 147 complaints to be dealt with.

Night Scavenging.

The following table shows the number of ashpits cleansed during the year, and the number of loads of manure and rubbish collected.

Мог	nth.	Number of Ashpits emptied	Loads of Soil	Loads of Rubbish	Total Number of Loads
January		 328	136	84	220
February		 351	234	36	270
March		 235	109	42	151
April		 347	198	75	273
May		 316	175	55	230
June	***	 294	132	65	197
July		 256	125	35	160
August		 228	125	33	158
September		 354	193	56	249
October		 443	194	79	273
November		 238	139	50	189
December		 158	78	30	108
Ton	rat,	 3548	1838	640	2478

The total number of ashpits cleansed during the year was 3548, asagainst 4252 in the previous year.

15 Ashpits with privies have been altered to the Goux system, and ashes tubs supplied in the place of 3 dry Ashpits. The above includes Ovenden, Illingworth, Copley and Northowram Wards.

TABLE SHOWING THE NUMBER OF ASHPITS WITHIN THE BOROUGH, DECEMBER 31st, 1909.

District	Wards	Ashpits with Privies	Dry Ashpits	Total
1	Akroydon and North	38	46	84
2	Ovenden and Illingworth	253	26	279
3	Central and East	25	80	105
4	West and South	8	174	182
5	Skircoat and Southowram	24	18	42
6	Pellon and Kingston	5	32	37
7	Copley	95	35	130
8	Warley	217	21	238
9	Northowram	144		144
	Total	809	432	1241

Goux Scavenging.

The following table shows the number of closet tubs and loads of ashes collected during the year.

Month.		Number of Closet Tubs Collected.	Loads of Ashes Collected.	
January			51348	2064
February			48149	1665
March			53850	1954
April			50749	1945
May			47839	1715
June			53460	1759
July			54438	1612
August			52143	1424
September			52190	1614
October			52154	1754
November			53297	1867
December			51640	1821
	TOTAL		621257	21194

The above represents 28238 loads of night soil as against 29577, and 20746 loads of ashes respectively for the preceding year.

The number of additional closets registered is 63, being an increase of 8 on the number registered during the year 1908.

The following table shows the number of Goux closet tubs registered since the commencement of the Goux system.

Year .	Number of Closet Tubs	Number Registered during each year		
1871	1102	1109 in 15 months		
1872	1895	786		
1873	2440	545		
1874	2820	380		
1875	3088	268		
1876	3316	228		
1877	3769	453		
1878	4277	508		
1879	5858	576		
1880	5071	218		
1881	5552	481		
1882	6057	505		
1883	6506	449		
92.03/	7405	899		
1884 . 1885	8049	644		
		678		
1886	8727			
1887	9327	600		
1888	9831	504		
1889	10446	615		
1890	11098	652		
1891	11644	546		
1892	12068	419		
1893	13047	984		
1894	13450	403		
1895	13797	347		
1896	14145	348		
1897	14444	299		
1898	14881	437		
145 Tubs returned in connec- tion with property pulled down				
1899	15287	551		
1900	15974	687		
1901	16397	461		
38 Tubs returned				
1902	16808	411		
1903	17164	356		
1904	17428	264		
1905	17662	234		
1906	17823	161		
1907	17920	97		
1908	17975	55		
1909	18038	63		

During the year 5 closets have been erected in connection with new property, and 58 have been altered from the old system.

Streets Scavenging.

Table showing number of lineal yards and miles swept during the year in each ward.

Wards.	Number of Lineal Yards Swept.	Miles.	Yards.
East	3063628	1740	1228
Central	1066285	605	1485
South	1404795	798	315
West	783525	445	325
North	783996	445	796
Akroydon	406360	230	1560
Southowram	593363	337	243
Skircoat	312314	177	794
Kingston	231599	131	1039
Pellon	339468	192	1548
Ovenden & Illingworth Part swept by Halifax Gang	938507	533	427
Total	9923840	5638	960

Streets Scavenging.

The subjoined table gives at a glance the work done in this department during 1909.

Number of Streets swept	39931
Lineal yards swept	9923840
Square yards swept	78227313
Number of Streets watered	15690
Loads of Water used for that purpose	20981
Loads of Sweepings gathered	8966
Loads of Snow removed from the streets	18757
Number of Gullies emptied	211151
Garbage removed from Market Hall	1140
Loads of Ashes and Sand put on streets	344

During the year 150 loads of garbage have been removed from fishmongers, fried fish shops, and green-grocers.

Birks Hall Tips

Table showing the number of loads of ashes and rubbish tipped during the year.

Name.	Number o Loads.			
Goux Department	oux Department		19315	
Highways Committee			400	
Private Firms			1920	
Waterworks			80	
Total			21715	

ANALYSIS OF REFUSE COLLECTED IN THE BOROUGH OF HALIFAX DURING THE YEAR 1909.

	No. of Loads,
From Wet and Dry Ashpits	2478
From Ashes Tubs	21194
From Goux Closet Tubs	28238
Sweepings gathered from the Streets, and Refuse from Gullies	8966
Garbage removed from Market Hall	1140
Horse Droppings from Streets	260
Garbage from Fried Fish Shops	150
Total Number of Loads	62426

Smoke Observations.

The following table shows the number of Smoke Observations taken during the year, and the average number of minutes of dense smoke emitted.

	Number of Observations taken.	Average Number of minutes of dense smoke emitted.
Number of Observations taken	544	
Number showing moderate Smoke or nil	367	
Number of Observations taken for a period of 60 minutes, each showing Dense Smoke	177	
Number of Observations show- ing Dense Smoke above the maximum adopted by the Committee	11	
Average number of minutes of Dense Smoke emitted from Chimneys		1.0

The number of Observations taken during the year is 544. 11 of these showed dense smoke above the maximum allowed by your Committee.

The average number of minutes of dense smoke emitted from the chimneys is 1.0.

TABLE SHOWING THE NUMBER OF INFECTED HOUSES VISITED BY THE DISTRICT INSPECTORS.

WARDS.	Enteric Fever.	Scarlet Fever.	Puerperal Fever.	Diphtheria	Erysipelas.
Ovenden	 - 1	40		8	2
Akroydon	 3	79		26	7
North	 4	96		8	1
Central	 3	33		5	4
West	 5	45		10	
South	 6	33		5	1
East	 2	52	2	6	
Southowram	 2	37	1	16	7
Skircoat	 12	30		15	10
Pellon	 1	32		9	1
Kingston		42	1	10	2
Illingworth	 4	5		6	7
Northowram	 1	8			2
Warley		3		3	1
Copley		10		1	
TOTAL	 44	545	4	128	45

TABLE SHOWING THE NUMBER OF INFECTIOUS DISEASES REMOVED TO THE BOROUGH FEVER HOSPITAL BY THE DISTRICT INSPECTORS DURING THE YEAR 1909.

		Typhoid Fever,	Scarlet Fever	Diph- theria.	Total.
Ovenden			23	2	25
Akroydon		2	38	5	45
North		2	75		77
Central		3	21	2	26
West		2	25	2	29
South		2	16		18
East			35	1	36
Southowram			30	5	35
Skircoat		3	7	3	13
Pellon			19	1	20
Kingston			18	1	19
Illingworth			4	2	6
Warley			2		2
Northowram		1	7 -		8
Copley			3	1	4
Out of Boroug	gh	6	17	2	25
TOTAL		21	340	27	388

Disinfection.

THE FOLLOWING TABLE SHOWS THE NUMBER AND DESCRIPTION OF THE ARTICLES DISINFECTED AT THE DISINFECTING HOUSE, STONEY ROYD, DURING THE YEAR.

Desc	ription of Articl	es,	Number of Articles.
Beds			 871
Mattresses			 595
Pillows			 1431
Sheets			 1285
Bolsters			 838
Blankets			 1944
Counterpanes	****		 684
Carpets and Ru	igs		 24
Drawers and H	ose		 971
Flannel Vests,	Dresses and	l Petticoats	 1338
Mats and Sund	ries		 2331
Dressing Gown	s and Shaw	ls	 449
Coats			 304
Cushions			 11
Trousers		***	 172
Waistcoats			 156
Miscellaneous			 39
	TOTAL		 13443

Canal Boats.

During the year 1909, 49 inspections of Canal Boats were made, as compared with 45 in the preceding year.

These inspections are made periodically by the Chief Sanitary Inspector.

In all cases where females were on board, proper provision was made for the separation of the sexes. Of the 49 boats inspected there were 4 with women and children on board, and 6 with women only.

The generally satisfactory condition of the boats has been well maintained, and all of them were found to conform with the Acts and Regulations. There has not been a single case of sickness on board during the year.

The Captains have been obliging, and at all times gave full information required.

The boats plying in this district chiefly belong to one company, and are registered either at Goole, Mirfield, or Leeds, consequently no arrangements have been made for registration.

Number	Number	Number of	Number of	Total.
of Boats	Registered	Males	Females	
Inspected.	to carry.	on board.	on board.	
49	347	99	11	110

AGES OF CHILDREN FOUND ON CANAL BOATS.

	16	Year	s.		Total.
	1	4	5	9	
Number	4	1	2	1	8

DRUGS ACT.		Remarks.		Dismissed upon payment of costs.	
D AND		Total.	γ s. d.	0 2 6	9 9 9
OF FOO	Decision of Court.	Costs	ь s. d. β s. d. β s. d.	0 5 6	0 5 6
E SALE	De	Penalties.	.р ·s ў	i	2 0 0
TABLE SHOWING PROSECUTIONS UNDER THE SALE OF FOOD AND DRUGS ACT.	Notessan of Officers	vacure of chence.		Cream of Tartar adulterated with lead.	Selling Milk adulterated with 10.7 per cent of added water.
SHOWING PROSE	Thefandant's Name	Vereinant s vans.		Halıfax Industrial Society, North- gate.	Elizabeth Kitson, Lower Grove Farm, Siddal.
TABLE	Pata	Date	1909	Aug. 24th	Sept. 7th

The preceding table shows 2 prosecutions as against 16 in the previous year.

The total fines, including costs, amount to £2 11s. as against £25 19s. 6d.

Vans and Tents.

They were regularly visited while they were in the Borough. No Cases of Infectious diseases, overcrowding or other nuisance were found.

During the year 2461 houses have been inspected, and it is gratifying to know that the percentage of defects discovered was not large. Particular attention has been paid by the Inspectors in the way of supervising the carrying out of alterations where defects were found, and in no case has a recurrence of the nuisance taken place after the work has been completed.

In looking over the table of nuisances, it will be seen that 7746 visits were made during the time alterations were in progress.

With reference to cleanliness and overcrowding 390 visits were paid, and in this connection it was generally found that two and sometimes more families were living together and saving or spending the rent of another house. In many cases where notices have been served, we have found the same families in some other part of the Borough living under similar conditions. They have made a change certainly, but the change has not reduced the number of overcrowded houses.

There is a class of people who live this migratory kind of life, moving about from one house to another, and never settling down to a home of their own. The reason is not easy to find. In some cases it may be due to extreme poverty, or, as stated above, it may be due to a disinclination to settle down in one place for any length of time.

During the short period of the summer months, which is the only time available, a considerable amount of work has been done in the way of altering cowsheds to conform with the requirements of our Regulations, but much still remains to be done in this connection.

In dealing with old buildings there are many difficulties to contend with, and when the best has been done we cannot say in many cases that it is altogether satisfactory, although a great improvement has been effected.

Street Refuse.

In concluding this report I beg to draw the attention of the Committee to the condition of our streets which are often in a disgraceful state in consequence of the large quantity of paper strewn upon them. News boys, bill distributors, fried fish shops, draymen and others all contribute towards bringing about this condition of things, in fact many people seem to think the streets are a sort of public tip, and if they have anything to dispose of, the most convenient way of getting rid of it is to throw it on the street, where it will be removed by the scavengers. Only a few days ago I saw two men distributing bills at one of the schools (at 12 o'clock noon) to the children, every one of which was thrown on

the street as they went along, not one being taken home, as was intended by the men distributing them. The condition of the roads in less than five minutes was something to be remembered. This is a very common occurrence and ought to be stopped. I understand that an attempt is being made in Bradford to prevent distributing bills in the street.

Two years ago the question of placing wire baskets at different points in the centre of the town came before your committee, and samples were procured, but the prices were considered excessive and the matter was allowed to drop. Would it not be wise after all to try a few, say eight or ten (not very expensive ones), to be placed in the most busy streets in the centre of the town? In a few weeks time we should find out whether the public appreciated the efforts of your Committee to keep the streets clean and as free from paper, orange peel, etc. as possible. This adds very much to their dirty appeaarnce, and could be avoided if the public would assist by putting this refuse in the baskets.

Streets Scavenging.

The work in this department is gradually increasing year by year, but for a number of years no increase has been made in the staff, consequently some parts of the Borough have not received the attention which is due, especially some of the main roads leading into the town, such as Boothtown, Haley Hill, Gibbet Street and King Cross Road. All these roads ought to be swept daily instead of three times a week, as the amount of traffic over them is considerable. This is a matter which should have the attention of your Committee in the near future.

I desire again to acknowledge the valuable assistance rendered me by the District Inspectors and the Chief Clerk (Mr. J. W. Jackson) and his staff during the year.

I am, your obedient Servant,

Chief Sanitary Inspector and Scavenging Superintendent.



APPENDIX.

VITAL STATISTICS OF THE BOROUGH OF HALIFAX DURING 1909 AND PREVIOUS YEARS.

	,	BIRTHS.	HS.	TOTAL	DISTRICT	DISTRICT,	IN THE	Total	Deaths of Non-	Deaths of	NETT DEATHS AT ALL AGES BELONGING TO	THS AT ALL
	Population			Under 1 Y	Under 1 Year of Age		At all Ages	Deaths in Public	residents	registered	THE D	THE DISTRICT
YEAR.	estimated to Middle of each Year.	Number	Rate *	Number	Rate per 1,000 Births Regis-	Number	Rate *	Institutions in the District	in Public Institutions in the District.	Institutions beyond the District.	Number.	Rate *
1	2	60	7	S	9	7	80	6	IO	п	12	13
1899	95,767	2239	23.3	363	162	1806	18.8	258	34	30	1802	18.8
1900	98,910	2316	23.4	314	135	1874	6.81	277	42	19	1851	18.7
1901	105,120	2351	22.3	301	128	1726	16.4	294	38	21	1709	16.2
1902	105,950	2225	21.0	324	145	1645	15.5	282	36	25	1634	15.4
1903	106,800	2248	21.0	279	124	1610	15.0	308	54	36	1592	14.9
1904	107,000	2154	20.1	282	-130	1662	15.5	303	52	33	1643	15.3
1905	107,500	2072	19.2	271	130	1651	15.3	319	75	42	1618	15.0
1906	108,000	2070	1.61	242	116	1741	1.91	420	107	40	1674	15.5
1907	108,500	1927	17.7	195	102	1655	15.2	377	145	48	1558	14.3
1908	107,500	2118	19.7	216	101	1664	15.4	426	139	36	1561	14.5
Averages for years 1899-1908	105,104	2172	20.6	278	127	1703	16.2	326	72	33	1664	15.8
1909	107.750	1840 17:0 183	17.0	183	66	1654	15.3	445	132	30	1552	14.4

* Rates in Columns 4, 8, and 13 calculated per 1,cco of estimated gross population.

Table showing the number of Infectious Diseases in each locality of the Borough, notified during the year, and classified according to age; also the number of Cases removed from each locality to the Borough Fever Hospital.

	CAS	SES NO	TIFIED	IN W	HOLE	DISTRI	CT.				тот	AL C	SKS	NOTI	FIED	IN E	асн	LOCA	LITY.						NO	. or	CASE	S REZ	HOVE	to To	ноз	PITA	L FR	OM E	ACH	LOCA	LITY.		
NOTIFIABLE DISEASE.	At all Ages.	Under	1 to 5	At Age	-Vears	25 to 65	65 and upwards	Ovenden	Akroydon Ward	North Ward	Central	West Ward (W)	south Ward	Rast Ward	Southowram Ward (M)	Skircoat	Copley	Pellon Ward	Kingston Ward	Dingworth Ward	Northewram	Warley Ward	Ovenden	Akraydon Ward	North Ward	Central	West	South	East	Southowram	3kircoat Ward	Copley	Pellon	Kingston Ward	Illingworth	Northowram Ward	Warley Ward	Non- residents	Total cases removed to Hospital
Small-pox		****																																****					****
Cholera																																							
Diphtheria (including Membranous Croup)	128		42	64	12	10		8	26	8	5	10	5	6	16	15	1	9	10	6		3	2	5		2	2		1	5	3	1	1	1	2			2	27
Erysipelas	45		1	8	2	26	8	2	7	1	4		1		7	10		1	2	7	2	1																	
Scarlet Fever	545	2	102	367	54	20		40	79	96	33	45	33	52	37	30	10	32	42	5	8	3	23	38	75	21	25	16	35	30	7	3	19	18	4	7	2	17	340
Typhus Fever																																							
Enteric Fever	44		1	5	14	23	1	1	3	4	3	5	6	2	2	12		1		4	1			2	2	3	2	2 .			3					1		6	21
Relapsing Fever																																							
Continued Fever																																							
Puerperal Fever	4					4								2	1				1																				
Plague																																							
Totals	766	2	146	444	82	83	9	51	115	109	45	60	45	62	63	67	11	43	55	22	11	7	25	45	77	26	29	18 3	36	35	13	4	20	19	6	8	2	25	388



Table showing Causes of, and Ages at, Death during the year 1909 in the several localities of the Borough.

	Dg.	ATHS IN	OR BELC	NGING T	о Wиос	E DISTR	DCT.					DEATHS	IN OR I	IRLONG!	NG ТО I	OCALITI	ES (AT	ALL AGE	si.				T
			AT SU	BJOENED	AGES.															Thomas .	1 #	1	Total Deaths in
CAUSES OF DEATH.	At all Ages.	Under I.	1 to 5.	\$ to 15.	15 to 25.	25 to 65.	65 and upwards.	Ovenden Ward.	Akroydon Ward.	North Ward.	Central Ward.	West Ward (W)	South Ward,	East Ward.	Southouram Ward, (H).	Skircoat Ward.	Copley	Pellon Ward	Kingston Ward.	Illingworth Ward.	Noethowraz Ward.	Warley Ward.	Public Institutions in the District.
Puerperal Fever Phthisis Other Tuberculous Diseases Cancer, Malignant Diseases Bronchitis Pneumonia Pleurisy Other Diseases of Respiratory Organs Alcoholism, Cirrhosis of Liver Veneral Diseases Premature Birth Diseases and Accidents of Parturition Heart Diseases Accidents Suicides Brain and Nervous System Diseases, Digestive ,, Urinary ,, Old Age Congenital Defects All other Causes		6	3 11 10 21 1 1 1 1 1 1 8 20 3 1 2 2 1 32 1 32	6 1 6 2 1 8 2 4 6 7 7 6 4 4 14	1	69 1	11 1	3 2	1 3 2 2 8 1 1 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	6 1 1 1 1 2 5 22 5 1 2 1 1 0 2 1 2 2 1 2 1 2 1 2 2 1 2 1 2	1	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 4 4	3 3 	1 2 5 1 1 1 1 1 1 2 2 3 3 1 1 1 1 1 2 2 1 1 1 1 2 5 1 1 1 4 5 5 1 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1 3 3 2 4 4 6 6 21	2	1 4 4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 4 3 5 5 4 1 2 1 5 3 1 1 5 3 1 2 2 10 50	2	10 13 7 1 1 46 10 25 27 35 1 2 2 4 2 2 37 25 1 35 32 19 27 2 81
All Causes	1552	183	122	67	15	003	302	109	114	140	120	132	112	120	101	110	21	113	132	103	30	00	445



Vital Statistics of the Borough of Halifax in 1909 and previous years.

NAMES OF LOCALITIES.	WHOLE DUSTY	NCF.	OVERDER WARD.	ARROTHOU WARD.	SOUTH WARD.	CRETEAL WAND	WIST WARD.	POUTE WARD.	KINT WARD.	SOUTHOWNAM WARD.	RESCORT WARD.	PELLON WARD.	REPORTOR WARD.	ILLINGWOOTS WARD	CUPLEY WARD.	HORTHUWSAM WARD	WARLEY WARD.
YEAR	Physiologian and the state of t	Dayle code I year	Paradatas rate access to market access t	Propleton sets were the set of th	Payadasan con- ment in spidle of rack next. Faths repaired.	Papalaces and manual consideration of each point. Backs couple and Danks and Auen Design and Auen	Proping and August Augu	Papalona sep- month to solidar of cash year. Doubts and Apres. Doubts and Apres.	Propietora cele- mante con del el colo tract propietora Desido De	Papelson end- market is market of each cost. Bests Bests Deales and Ages Deales and Ages	Papatone con- month to making of each own finite Dools and Ages Dools when I have	Papelson on model to model of each year Each regreered of Mayer Each Ages Each Ages	Particular and Partic	Papeldrian con- monthly models models to models models to make and models to make and them others and them	Paradisca cel- mand to middle of cel-box promoted paradisca and Ages and Ages and Ages and Ages and Ages	Papalone military and the second seco	Propies of a series of a serie
1899			7020178103 26	7050 202 131 33	8129 214 140 40	8950 196 152 38	9678 191 138 26	8700 160 142 20	8600 125 126 22	7558/226 127 47	8076177127 26	8078 203 114 30	8564 188 92 30	7266163122 17	Newly Added		
1900												8170/207/142/26			2570 57 33 4	Newly Added Area.	Newly Added Area.
1901												9138217149 26					2830 60 44 5
												9225185111 21					
	107000215416	43 282	7270 156 106 14	6560 166 122 27	8310191185 31	7835165198 94	9282155130 21	7670132108 18	7008112134 24	7515176121 34	9420211146 19	9340 193 122 14 9350 174 122 22	10400197122 25	7170157 91 16	2935 39 31 2	3270 70 47 5	2850 60 55 7
												9420177113 23					
												9620165115 14					
												9580161117 11					
	107500 2118 15	61 216	7400160112 15	6700 150 106 13	7830 201 161 31	7025155112 24	8515152143 21	7400116114 12	7000114119 15	7200178110 17	10850/212/128/17	10000177109 10	10950 197 132 16	7130115 99 12	3190 54 29 5	3350 84 49 5	2960 53 38 3
Averages of) Vears 1899 to 1908	107321211616	11 258	7222155107 18	6715173105 23	8220 206 146 32	7976 169 138 29	9286169141 22	7854124116 13	7827 111 143 22	7496192117 28	9354189128 17	9192185121 19	10129191121 20	7186138107-15	2941 54 36 4	3287 80 52 8	2865 56 44 4
1909	107750 1840 15	52 183	7415 131 108 14	6710133114 16	7860180143 23	7055148126 17	8530 140 132 17	7410101112 7	7010 111 120 14	7230147101 16	10890165118 11	10020147113 9	10960144152 18	7130 114 103 10	3210 70 21 4	3350 52 50 4	2970 57 38 3



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