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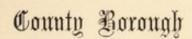
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of Malifax.

HEALTH DEPARTMENT.

REPORT

OF THE

Medical Officer of Health,

Together with the Report of the

SANITARY INSPECTOR,

FOR THE

Year ended December 31st, 1905.

Printed by order of the Health Committee.

HALIFAX:

MESSRS. EDWARD MORTIMER, PRINTERS, REGENT STREET.

1906.

Ibealth Committee.

Mayor.

COUNCILLOR R. D. WARD.

ALDERMAN J. F. COE, J.P., Chairman.

COUNCILLOR T. S. DODD, Vice-Chairman.

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

Councillor A. BINNS.

,, H. CLAY. ,, J. T. DALTON.

" L. GELDER.

Alderman J. WADE, J.P.

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Clothing Sub-Committee.

THE CHAIRMAN. VICE-CHAIRMAN. COUNCILLOR PINDER., SWAINE.

Staff of the Bealth Department.

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

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

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

Public Analyst.

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

Chief Sanitary Inspector.
DAVID TRAVIS.

Meat Inspector.
J. T. MILLINGTON.

District Sanitary Inspectors.

JAMES ARCHBELL.

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J. E. FIRTH.
R. PICKARD.

Foreman Scavenger.
NATHAN GARSIDE.

Chief Clerk. J. W. JACKSON.

Assistant Clerks.
CHARLES CARLTON. ERNEST JUBB.

Matron of the Borough Hospital.

MISS ROBISON.

Disinfector. T. W. BOOTH.

Laundry Engineer. W. GUEST.

> Porter. H. VICKERMAN.

Gour Department.

Manager of Yard.
RD. TRAVIS.

Goux Inspectors.

J. HEATH. S. MAUDSLEY.

Clerk.

County Borough of Halifax.

REPORT

OF THE

MEDIGAL OFFIGER OF HEALTH

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

For the Year 1905.

INTRODUCTION.

To the Chairman and Members of the Health Committee.

GENTLEMEN,

I have the honour of presenting you with the Thirty-third Annual Report on the Health and Sanitary condition of the Borough. This is the sixth report it has been my duty to compile and place before you. It is made in accordance with the requirements of the Local Government Board.

I regret to have to state that the birthrate of the Borough for the year 1905 is the lowest yet recorded. The fall in the birthrate has been so gradual and persistent, that the cause or causes must be widespread, and I fear deep-rooted and permanent. I consider therefore that improvement in this direction is not likely to be secured. Moreover, what is more serious is that the influences at work are calculated to injuriously affect the nation by undermining its strength and its fibre.

The general deathrate was satisfactory, being only 1 per 1000 above the lowest ever recorded, and the zymotic deathrate was a considerable improvement upon the previous year.

The deathrate of infants under one year of age, though it compares favourably with the large towns generally, shows little or no improvement during the past five years.

A great deal of useful work has been accomplished during the year by the Department, and generally speaking, it has been carried out in an entirely satisfactory manner.

I consider that we need a Destructor to deal with the house refuse, which in my opinion would lead to such economies in many directions, that no extra charge would fall upon the rates.

We also need a lady Health Visitor, to instruct mothers in the art of feeding children. Until such an appointment is made, I fear we cannot expect any material diminution in the mortality of infants.

In conclusion I have to acknowledge the assistance rendered me by Mr. Travis and the Sanitary Inspectors, as well as Mr. Jackson and Mr. C. Carlton, all of whom have rendered me valuable help.

I am,

Gentlemen,

Your obedient Servant,

Las. J. Keech M. D., D.P.H.

MEDICAL OFFICER OF HEALTH.

TOWN HALL,

HALIFAX,

May 9th, 1906.

STATISTICAL SUMMARY.

	1905.	1904.
	ACRES.	
Area of County Borough	13,650	
Rateable Value	£493,839	£491,640
Population, estimated to	,	0,202,020
middle of 1905	107,500	107,000
Population, 1901 Census	104,936	10.,000
Persons per Acre	7:8	7.8
Average number of Persons		10
per Inhabited House, 1901		
Census	4.2	
Average number of Persons		180
per House, 1901 Census	4.0	90.1
Birth Rate, 1905	19.2	20.1
,, Average for pre-		00.0
vious 10 years	22.3	22.8
Death Rate, 1905	15.3	15.5
" Corrected …	15.05	15.3
,, Average for pre-		
vious 10 years	16.8	17.4
Death Rate for seven principal		
Zymotic Diseases	0.88	1.4
Death Rate, the mean for pre-		
vious 10 years of Zymotic		
Diseases	1.2	1.3
Death Rate of Infants under		
1 year per 1000 Births	130	130
Illegitimate Births	97	113
Average Age at Death, 1905—		
	38.6 years	37.5 years
Average Age at Death, 1905—	Journ Journ	J. J. J. Carb
	44.1 years	41.2 years
Latitude—North	53° 43	II = yours
Longitude—West	1° 52′	
	625	
Total Rainfall, inches	25.94	29.31
Local Ramifall, molles	20 01	20 01

Area and Population of the Borough.

Halifax is divided into fifteen Wards, the area and population of which are set out in the following table.

WARDS.	Population Estimated to Middle of 1905.	Acreage.	Persons per Acre.	No. of Houses Built during 1905.
Ovenden	7280	531	13.7	10
A 11	0000	582	11.3	24
North		168	49.6	12
Control	8345	82	95.5	0
	7835		107.9	0
	9285	86		0
	7690	296	25.9	
	7010	191	36.7	0
	7530	777	9.6	1
	9690	513	18.8	60
	2970	532	5.2	9
	9420	241	39.0	23
Kingston	10460	238	43.9	15
Illingworth	7210	4504	1.6	9
Northowram	3285	1555	2.1	4
Warley	2860	3354	0.8	3
Totals	107500	13650		170
Average			7.8	

Marriages.

During the year under review, 1048 marriages were solemnised within the Borough, which gives a marriage rate of 9.7 per 1000, exactly the same as

the rate for 1904, but considerably below the average of the previous five years. The rates during the previous five years were:—1900, 11·2; 1901, 10·5; 1902, 9·8; 1903, 9·5; and 1904, 9·7 respectively. The marriage rate for England and Wales was 15·25 per 1000.

The following table shows where the marriages took place.

In Churches of the Church of England		626
In Nonconformist places of worship, and the Register Office	at	422
Total		1048

Births.

The number of Births registered within the Borough during the year under notice was 2072, or 82 less than were registered during the previous year. Of these, 1030 were males, and 1042 were females, and they give a birthrate of 19.2 per 1000, which is 9 below that of the previous year, and is the lowest yet recorded. The excess of Births over Deaths was 454.

The birthrate of Halifax has been steadily diminishing, so as that also of the Country generally, but as the following table will show, that of the Borough since 1875 has fallen more quickly than that for England and Wales.

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	27:2	19.2 — 8.0

The mean birthrate of 33 of the largest towns for 1905 was 27.6 per 1000, as compared with 28.3 for the year 1904. The birthrate of Halifax was again the lowest of those towns, Bradford coming next with a birthrate of 21 per 1000.

The birthrate of England and Wales for 1905 was 27.2 per 1000.

The following table gives the number of births and birthrates during each quarter of the year.

TABLE SHOWING BIRTHS AND BIRTHRATES
IN EACH QUARTER OF 1905.

Period.	Males.		Females.		Totals.		Birthrate per 1000 living.	
	1905.	1904.	1905.	1904.	1905.	1904.	1905.	1904.
1st Quarter 2nd ,, 3rd ,, 4th ,,	256 266 288 220	299 271	281 258	289 246	547 546	588 517	19:5 20:3 20:3 16:8	21:9 19:3
Whole Years	1030	1077	1042	1077	2072	2154	19.2	20.1

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

WARDS.			Вікти	RATES.		
	1901.	1902.	1903	1904.	1905.	Average.
Ovenden	 22.0	20.7	21.9	21.4	17.5	20.7
Akroydon	 28.5	28.2	26.0	25.3	27.0	27.0
North	 27.9	25.2	27.6	22.9	21.2	24.9
Central	 21.8	20.9	23.8	21.0	20.2	21.5
West	 18.6	21.0	16.6	17:7	14.6	17:7
South	 18.2	15.3	17.2	15.4	13.5	15.9
East	 15.1	15.5	15.9	14.9	14.6	15.2
Southowram	 27.0	28.9	23.4	25.1	23.2	25.5
Skircoat	 21.1	17.9	22.3	22.3	21.2	20.9
Copley	 23.7	14.0	13.2	14.6	21.5	17.4
Pellon	 23.7	20.0	20.6	18.6	18.7	20.3
Kingston	 21.4	17:5	18.9	16.9	17:3	18.4
Illingworth	 21.3	20.2	21.9	19.3	17.8	20.1
Northowram	 23.8	29.0	21.4	29.0	27:3	26.1
Warley	 21.2	18.2	21.0	20.3	22.3	20.6

In accordance with my usual custom, I sent a circular to the caretakers of all the cemeteries and burial grounds in the Borough, asking for the number of stillborn children that were interred during the year. I had replies from all of them, and the following table is the result thereof.

Name of Burial Ground.		Still-born ried therein.
	1905.	1904.
Moor End Chapel	 0	0
Nursery Lane Wesleyan	 1	0
St. George's, Ovenden	 3	3
Providence Chapel, Ovenden	 0	0 3 1 7
Illingworth Church	 4	
Christ Church, Mount Pellon	 11	11
Illingworth Wesleyan Chapel	 $\frac{2}{1}$	0
Mount Zion, Ovenden	 1	0
Borough Cemetery	 26	41
Wesleyan Chapel, Northowram	 0	0
All Saints' Church	 8 2 0	5 8
Heywood Cemetery	 2	8
Bradshaw Church	 0	0
Mount Tabor Burial Ground	 0	0
King Cross Wesleyan	 11	14
St. Paul's Church, King Cross	 8	5
All Souls' Cemetery	 16	12
Warley Church	 1	2 0
Wesleyan Chapel, Luddenden	 0	0
Lister Lane Cemetery	 7	12
St. Thomas' Church	 12	0
Totals	 113	121

From the above table it will be seen that 113 stillborn children were buried during the year, compared with 121 during the previous year. The number buried during 1901 was 108; 1902, 86; and 1903, 118 respectively.

Deaths.

During the year 1905 there were 1651 deaths registered within the Borough, of which 75 did not belong to the district, also there occurred 42 deaths outside the Borough, among persons belonging thereto, so that excluding the former, and including the latter, the corrected number of deaths for the year

was 1618. Of the latter number 825 were males, and 793 were females. This gives a deathrate for the year of 15 per 1000, which is '3 below that of the previous year, but '1 above the rate for 1903, which was the lowest ever recorded in the Borough.

The deathrate for England and Wales for 1905 was 15·2 per 1000. The average for the 76 great towns was 15·7 per 1000, and of the other Yorkshire great towns as follows:—Leeds, 15·3; Sheffield, 17; Bradford, 15·1; Hull, 16; and Huddersfield, 16·9 respectively.

The following table gives the average deathrates of the Borough in quinquennial periods from 1876 to the present time. It shows that the average deathrate, taken in periods as below, has fallen 8:17 per 1000 during the past 29 years.

Period.	Deathrate.
1876-80	23.5
1881-5	21.1
1886-90	21.2
1891-5	17.9
1896-00	17:5
1901-5	15:3

The next table gives the mortality of the different wards for the year under notice, and serves to compare the various deathrates thereof.

			D		Death-	Mortali	ty per 1000) living.
WARDS.	Population.	Acreage.	Persons per Acre.	Tota. Deaths.	rate per 1000.	Zy- motics.	Phthisis.	Other Respi- ratory Diseases.
Ovenden	7280	531	13.7	124	17:0	1.9	1.6	2.1
Akroydon	6630	582	11.3	117	17:6	0.6	0.6	3.3
North	8345	168	49.6	148	17:7	1.3	1.3	2.1
Central	7835	82	95.5	135	17.2	0.7	1.0	4.5
West	9285	86	107.9	131	14.1	0.7	0.9	2.9
South	7690	296	25.9	105	13.6	0.9	0.7	1.6
East	7010	191	36.7	_136_	19.4	0.8	2.5	3.4
Southowram	7530	777	9.6	109	14.4	1.8	1.3	1.5
Skircoat	9690	513	18.8	136	14.0	0.2	1.2	2.6
Copley	2970	532	5.5	44	14.8	2.0	1.6	3.3
Pellon	9420	241	39.0	113	11.9	0.2	0.8	2.5
Kingston	10460	238	43.9	108	10.3	0.3	1.1	1.9
Illingworth	7210	4504	1.6	113	15.6	0.4	1.5	2.9
Northowram	3285	1555	2.1	53	16.1	1.8	1.2	2.4
Warley	2860	3354	0.8	46	16.0	0.3	1.6	3.1
Totals	107500	13650	7.8	1618	15.0	0.8	1.2	2.6

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

	MAI	ES.		lı .	FEMA	ALES.	
					2 17111		
	Deaths.	Total Years.	Average Ages.		Deaths.	Total Years.	Average Ages.
0-1	169	169		0-1	102	102	
1-5	66	147	2.2	1-5	61	144	2.3
5-15	31	270	8.7	5-15	27	222	8.2
15-25	31	615	19.8	15-25	40	800	20.0
25-65	329	16155	49.1	25-65	316	15304	48.4
65 and upwards	199	14530	73.0	65 and upwards	247	18426	74.6
Total 1905.	825	31886	38.6	Total 1905.	793	34998	44.1
1905	Ave	rage	38.6	1905	Ave	rage	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	31		35.3	1897	,	,	37.9
1896	,,		35.5	1896	21	,	38.4

From the above table it will be observed that the average age at death has risen during the year under notice, compared with the remarkable lowering which took place in the average age at death during the previous year.

Zymotic Deathrate.

During the year under review 95 deaths resulted from the seven principal zymotic diseases, which gives a deathrate of 88 per 1000 compared with 14 during the previous year. Halifax usually has a lower zymotic deathrate than any of the 33 great towns of England and Wales, and although the deathrate for the year under notice is considerably lower than that of the previous year, yet one of the above great towns has this year a lower rate than Halifax, viz. Brighton, the zymotic deathrate for which during 1905 was only 54 per 1000.

According to the Registrar General's returns, the zymotic deathrate of the other Yorkshire great towns was as follows:—Leeds, 1.59; Sheffield, 3.2; Bradford, 1.43; Hull, 2.37; and Huddersfield, 1.1 respectively.

The following table gives the average zymotic deathrate of England and Wales, with which that of Halifax favourably compares.

	DEATHRATE FROM								
	Small- pox.	Measles	Scarlet Fever.	Diph- theria.	Whoop- ing Cough.	Fever.	Diarr- hoea.	Zymotic Death- rate.	
England and Wales	0.00	0.32	0.11	0.16	0.25	0.09	0.59	1.52	
76 Great Towns	0.00	0.39	0.13	0.16	0.29	0.08	0.83	1.88	
141 Smaller Towns	0.00	0.31	0.11	0.15	0.53	0.13	0.57	1.50	
England and Wales, less the 217 towns	0.00	0.24	0.09	0.15	0.50	0.09	0.32	1.09	
HALIFAX	0.00	.009	0.10	0.25	0.58	0.08	0.14	0.88	

From the above table it will be observed that the zymotic deathrate of Halifax is not only below that of England and Wales, the great and smaller towns, but also that of the Country generally.

The following table shows the distribution of the deaths from the chief zymotic diseases among the wards of the Borough.

WARDS.	Small- pox.	Measles.	Scarlet Fever.	Diph- theria.	Whooping Cough.	Fever.	Diarr- hoea.	Zymotic Death- rate per 1000.
Ovenden				1	7		1	1.0
				4		***	1	1.6
Akroydon			1	1	1		1	0.6
North					5		6	1.3
Central			1	1	1	2	1	0.7
West				4	3			0.7
South			1	1		1	2	0.9
Foot		and the same of		ī	2 3 2	2	-	0.8
Southowram	227	1		6	9	1		
	***	1			2	1	3	1.7
Skircoat	1.11		1	3	1			0.5
Copley		***	3	1		1		1.6
Pellon		***	1	1	2		1	0.5
Kingston				1	2 3			0.3
Illingworth			1	2				0.4
Northowram			2	1	2	1		1.8
Windless			-	1	-			(20)
wariey				***		1		0.3
-	-			The same of	10000	-		Av'ge
Totals		1	11	27	32	9	15	0.8

The following table gives the average zymotic deathrate of the Borough during the past 29 years, and shows that there has been a gradual and satisfactory fall in that deathrate.

Period.	Deathrate.
1877-81	2.50
1882-6	1.55
1887-91	1.43
1892-6	1.33
1897-01	1.40
1902-5	0.97

Infantile Mortality.

During the year under notice 271 infants under 1 year of age died in the Borough, eleven less than occurred during the previous year. This gives a mortality of 130 deaths to 1000 births registered, exactly the same mortality as for the previous year, although eleven fewer infants died. This arises from the fact that the birthrate for 1905 was below that of the previous year.

The following table gives the number of births, the birthrates, the number of deaths of infants under one year of age in each ward, and the mortality per 1000 births.

WARDS.	Number of Births.	Birthrates.	Number of Deaths under 1 year.	Mortality per 1000 Births.
Ovenden	128	17:5	17	132
Akroydon	179	27.0	30	167
North	177	21.2	35	197
Central	159	20.2	28	176
West	136	14.6	19	139
South	104	13.5	12	115
East	103	14.6	15	145
Southowram	175	23.2	26	148
Skircoat	206	21.2	17	82
Copley	64	21.5	6	93
Pellon	177	18.7	23	129
Kingston	181	17:3	13	71
Illingworth	129	17.8	11	85
Northowram	90	27.3	14	155
Warley	64	22.3	5	78
Totals	2072	19.2	271	130

The following table shows the causes of death of infants under one year of age.

	CAUSE OF DEATH.	Under ! Week	1-2 Weeks	2-3 Weeks	3-4 Weeks
Consos	Certified	54	22	18	9
Infectious Diseases. Diarrhœal Diseases. Wasting Diseases. Tuberculous Diseases. Tuberculous Diseases.		32 5 2 5 	1 2 4 	1 1 5 1 2 2 4 2 2 2 18	3

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
103	32	16	18	11	16	8	11	12	9	16	16	268
2			1	***								3
		 ïi		 2		1 1	 1					1 1 15
3 1 50	2 2 7	1 3 1 3	1 1 2	1 2	 1		i	2	1		1 2	10 8 8 62 8 4
6 4 14	1 5	1 3			 1	 i			1	 1		8 4 30 7
	1		1 1		2	***	ï	ï	1	1		
							ï	1		1		3
	1	1					1			1	1	4 1
11 3	3 2	 1	2 4	2	1 2	1		2	1	2 2	1 2	22 20
2 2 2 9	2 2 4	 1	3 2	"i …	6	2 2	5 	3	2	1 5	7 1	34 6 24
105	32	16	19	11	16	8	11	12	9	16	16	271

The following table gives the infant mortality of the different wards of the Borough during the past five years, and also the average birthrate of each ward during the same period.

WARDS.	De	aths under	1 Year to	1000 Birt	hs Register	red.	Average Birthrate
WARDS.	1901.	1902.	1903.	1904.	1905.	Average.	during the past five years.
Ovenden	103	154	132	90	132	122	20.7
Akroydon	149	140	122	162	167	148	27.0
North	118	216	126	162	197	163	24.9
Central	198	207	123	145	176	189	21.5
West	92	117	135	127	139	122	17.7
South	79	138	136	117	115	117	15.9
East	198	220	214	228	145	201	15.2
Southowram	148	179	193	127	148	159	25.5
Skircoat	122	110	90	61	82	93	20.9
Copley	57	97	50	46	93	68	17:4
Pellon	119	113	72	126	129	111	20:3
Kingston	105	138	126	152	71	118	18.4
Illingworth	93	97	101	158	85	106	20.1
Northowram	115	84	71	136	155	112	26.1
Warley	83	76	116	69	78	84	20.6

From the above table it will be been seen that the average infantile mortality for East Ward is still the highest, The next table shows the number of deaths from some of the chief infantile diseases per 1000 births, during the past two years, and the rate per cent. of the total deaths at all ages.

DISEASES.		Total Deaths.		e per Births.	Rate per cent. of Total Deaths at all ages.		
	1905.	1904.	1905.	1904.	1905.	1904.	
From all causes Respiratory Diseases Premature Birth Diarrhœa Whooping Cough Convulsions Scrofula, Tuberculosis Measles	271 52 62 10 15 22 15 1	282 61 59 22 4 22 10 16	130·7 25·0 29·9 4·8 7·2 10·6 7·2 0·4	130·9 28·3 27·3 10·2 1·8 10·2 4·6 7·4	16·7 3·2 3·8 0·6 0·9 1·3 0·9 0·0	17:1 3:7 3:5 1:3 2 1:3 6	

The following table serves to compare the infant mortality of England and Wales, the great towns, &c., with that of Halifax.

Deaths under 1 year per 1000 Births.
128
140
132
113
130

The average infant mortality for England and Wales during the past year is the lowest on record; and, as will be seen, is slightly below that of Halifax, while the average for the great towns, and also the smaller towns is above that of this Borough.

The infant deathrate varies considerably in different parts of the country, and in many places is excessively high. 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; for, while the general deathrate of the country during the past 30 years has fallen considerably, the average infantile mortality remains almost the same as it was 30 years ago. This is certainly a serious question, especially in view of the gradual fall in the birthrate generally, and is undoubtedly a weak spot, if, even if it be not considered a blot, in the sanitary administration of the country.

The infant mortality of the other great towns of Yorkshire was as follows:—Leeds, 152; Sheffield, 167; Bradford, 144; Hull, 153; and Huddersfield, 119 deaths per 1,000 births respectively.

The following table gives the average infant mortality of the Borough in quinquennial periods from 1875 to the present time. It shows the fall in that mortality, and compares it 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	130	128

From the above table it will be observed that the infantile mortality of Halifax has gradually fallen during the past 30 years, while the average for England and Wales remains about the same, except that for the year under notice, which is slightly below that of this Borough.

The following table gives the average infant mortality of the 27 largest towns of the country during the past 5 years, and as will be seen from the averages, 3 of those towns have a slightly lower infantile mortality than Halifax.

27 Large Towns.	Deaths under 1 year to 1,000 Births Registered.									
Li Danos Louis.	1901.	1902.	1903.	1904.	1906.	Average.				
D	210	100	101	109	153	180				
Preston	216	188	161	183 193	150	173				
Salford	204	155	166		157	172				
Manchester	198	152	168	187 158	167	171				
Sheffield	200	149	182	196	154	171				
Liverpool	187	162	159	195	155	170				
Birmingham	186	156	158	191	146	169				
Blackburn	193	157	159	175	155	169				
Nottingham	193	158	164	179	173	168				
Norwich	186	156	149 153	176	152	165				
Leeds Hull	188	159	162	181	153	161				
Laissatan	174	137	161	163	148	159				
Leicester Sunderland	175	152	156	165	143	159				
D!-11	181	152	155	180	127	158				
The state of the s	181	148	152	167	166	158				
01.11		134	160	155	150	157				
	172	148	165	156	137	155				
Newcastle-on-Ty'e Bradford		139	147	166	144	152				
T31 .3		138	144	173	136	151				
Wolverhampton		154 133	141	152	136	144				
D	162 162	151	113	141	133	140				
Douber		124	128	143	151	140				
Ca1:02	154	146	122	144	118	135				
11-116	147		122	130	130	130				
TI., J.J., 6: .1.1	127 131	143	120	136	119	128				
D' -1.4	100	125	110	134	101	126				
D.,:-4-1	130	130	116	133	122	126				
Bristoi	150	100	110	100		7.75				

Comparison of Ward Deathrates.

The following table serves to compare the undermentioned deathrates of the different Wards of the Borough for the year 1905.

WARDS.	General Deathrates	Zymotic Deathrates	Respiratory Deathrates	Phthisis Deathrates	Infantile Mortality
Ovenden	 17.0	1.9	2.1	1.6	132
Akroydon	 17.6	0.6	3.3	0.6	167
North	 17:7	1.3	2.1	1.3	197
Central	 17.2	0.7	4.5	1.0	176
West	 14.1	0.7	2.9	0.9	139
South	 13.6	0.9	1.6	0.7	115
East	 19.4	0.8	3.4	2.5	145
Southowram	 14.4	1.8	1.2	1.3	148
Skircoat	 14.0	0.2	2.6	1.2	82
Copley	 14.8	2.0	3.3	1.6	93
Pellon	 11.9	0.5	2.5	0.8	129
Kingston	 10.3	0.3	1.9	1.1	71
Illingworth	 15.6	0.4	2.9	1.2	85
Northowram	 16.1	1.8	2.4	1.2	155
Warley	 16.0	0.3	3.1	1.6	78
Average	 15.0	0.8	2.6	1.2	130

Notification of Infectious Diseases.

The notification of infectious diseases was made compulsory in Halifax by a local Act in the year 1882, and during the year under notice there was a total of 584 cases reported within the Borough, against a total of 775 during the previous year.

The following table shows the total number of cases of each disease notified during the year, and the distribution of the reported cases among the various Wards of the Borough, as well as Institutions.

WARDS.		Small-pox. Typhoid Fever.	Scarlet Fever.	Puerperal Fever.	Diphtheria.	Erysipelas.	Total.	Rate percentage of Population.
Ovendeu Akroydon North Central West South East Southowram Skircoat Pellon Kingston Illingworth Copley Northowram Warley		5 5 5 3 1 1 7 3 6 8 8 7 4 4 2 6 1	72 14 20 15 10 18 10 17 11 25 22 24 15 61 4	 1 	12 1 2 3 7 6 2 9 13 7 9 7 6 3 	8 2 3 1 1 2 1 9 7 6 1 7 1 4 1	94 20 25 33 36 28 24 44 42 50 38 46 24 71 9	1·27 ·30 ·29 ·42 ·38 ·36 ·34 ·53 ·53 ·63 ·80 2·16 ·31
Total, 1905	49	50	338	6	87	54	584	.54

PUBLIC INSTITUTIONS (which are included in the above).

Royal Infirmary Poor Law	 4	1	 2			
Hospital	 1		 	•••	6	

Lists containing the names and addresses of those notified during each week, were sent to the public libraries throughout the year. The following table gives the number of cases notified each month during 1905.

MONTH.	Small-pox.	Typhoid Fever.	Scarlet Fever.	Puerperal Fever.	Diphtheria.	Erysipelas.	Total.
January	 34	2	28		9	7	80
February	 	3	17		3	3	26
March	 2	5	22	1	5	3	38
April	 9	4	42		2	4	61
Мау	 4		18	1	5	3	31
June	 		15		10	3	28
July	 	5	9	.1	12	8	35
August	 	6	20		6		32
September	 	3	37		6		46
October	 	8	50	1	7	5	71
November	 	7	34		11	12	64
December	 	7	46	2	11	6	72
Totals	 49	50	338	6	87	54	584

The next table shows the number of cases of each disease notified yearly, since notification became compulsory, and the rate per cent. which the total number reported bears to the population of the Borough.

Year	Small-pox Cholera	Typhus Fever	Enteric Fever	Scarlet Fever	Continued	Puerperal Fever	Relapsed Fever	Diphtheria	Erysipelas	Chicken-pox	Membranous Croup	Tota	Rate percent- age of ropulation
1883	2	2	108	158	43	2	1	14				330	.43
1884	1	1	69	269	24	4	4	13				385	•50
1885	7	1	56	214	22	1		25				326	42
1886	3 1		57	124	7	5		59				256	.32
1887	. 1	1	66	727	8	7		26				836	1.05
1888	1	1	36	440	16	1		29				524	.65
1889	2		94	153	18	1	3	31				302	·37
1890			67	328	8	8	1	62				474	.58
1891	1		99	429	14	5	2	23				573	.68
1892	159	1	56	256	9	4	2	71				558	.66
1893	346 5		69	150	5	6		57				638	.69
1894	16		52	114	3	6		43				234	-25
1895			58	52	3	4		29				146	.15
1896			105	44	2	4		37				192	.20
1897			78	476	1	8		67				630	.66
1898			79	626	1	9		23				738	.76
1899			92	762	2	3		58				917	.93
1900	2	5	79	330	1	4	3	41	1			.466	.46
1901	3		67	736		1		61	15			883	.83
1902	1		65	452	1	3		37	27			586	.55
1903	130		61	320	2	1		50	81	328	1	974	-91
1904	80		47	486		9		80	73			775	.72
1905	49		50	338		6		87	54			584	.54

Causes of Death.

The following table gives the causes of death in the Borough (excluding those not belonging thereto), during the year 1905.

CA	USES OF	DEATH.		Numbe
			 	0
			 	1
Scarlet Fever			 	11
Whooping-cough .			 	32
Diphtheria and Mem	branous (Croup	 	27
Enteric Fever			 	9
Epidemic Influenza.			 	18
Diarrhœa .			 	15
Enteritis .			 	12
Puerperal Fever			 	4
Erysipelas			 	2
Other Septic Disease	s		 	2
Phthisis			 	135
Other Tubercular Di	seases		 	58
Cancer, Malignant D	iseases		 	105
Bronchitis			 	153
Pneumonia			 	130
Pleurisy			 	3
Other Diseases of Re	spiratory	Organs	 	13
Alcoholism, Cirrhosis	of Liver		 	13
Venereal Diseases			 	3
Premature Birth			 	62
Diseases and Acciden	ts of Par	turition	 	14
Heart Disea es			 	176
Accidents			 	28
Suicides			 	13
Brain and Nervous S			 	176
Digestive System			 	50
Urinary System			 	60
Convulsions			 	35
Old Age			 	109
Congenital Malforma			 	13
All other causes			 	136
All causes			 	1618

Smallpox.

This disease was present in the Borough during the first five months of the year. In all, 49 cases were notified, 34 in January, 2 in March, 9 in April, and 4 in May.

Several cases of smallpox broke out in Halifax during the latter end of 1904, and in the majority of cases, each outbreak was traced to a fresh importation of the infection from outside the Borough. This was not to be wondered at, considering the prevalence of the disease in neighbouring districts, in short, considering the close inter-communication which occurs between Halifax and those districts, it is fortunate the disease did not break out more frequently in the Borough, than actually was the case.

On or about December 13th, 1904, a letter was received at Bell Hall Post Office, from a smallpox hospital outside the Borough, and on the day before Christmas, a patient was removed therefrom suffering from the disease. Out of this case arose six of those reported during the month of January last.

On January 9th, a case of smallpox was reported at 55, Wadsworth Street, the origin of which could not be definitely traced. The patient worked amongst furniture, and whether he came in contact with the disease in that way, it was impossible to say. His eruption was in the early pustular stage before his removal, and he infected the other five persons of his household.

On January 17th, two persons were found at 45, Horne Street, who had almost recovered from the disease, and as a result, three further cases occurred among the members of this family, as well as three cases among persons who had visited this house.

On January 8th, a case was reported in Baker Street, and on the 9th, one in Oates Street, both in the vicinity of Horne Street.

It is possible, therefore, that these persons were infected in Horne Street, or caught the infection from the same source as the persons living in Horne Street. The source of infection in the latter case I was unable to trace.

Five more cases arose out of that in Baker Street, and three others from that in Oates Street.

Out of the 34 cases which were reported during the month of January, 31 originated from the sources above referred to, and 21 of the latter number occurred in four houses. This being so, the outbreak was really not so alarming as it appeared, and the occurrence of so many cases, was due to the original cases being either overlooked, or their true nature not recognised until in an advanced stage. The three remaining cases reported during January, contracted the disease from previous cases in the Borough reported during the month of December.

On April 1st, a mild and unrecognised case of the disease was discovered in Horton Street, and on the 17th, another in Pellon Lane. These two cases infected eight others, which, with two cases reported in March, of which no trace could be obtained, account for the remaining cases reported during the year. The steps taken to combat the outbreak were as follows:—Immediately a case came to the knowledge of the Department, it was removed to hospital, the remaining members of the family were detained in the house, until the house and all its contents had been disinfected, including the inmates and their clothing. The Vaccination Officer was informed of each outbreak, and the public vaccinator visited the vicinity, and offered vaccination to all. The names of all contacts possible were obtained, and they were kept under observation for 16 days.

A house to house visitation was made in a large area surrounding each infected house, by the District Inspectors, who at the same time left a handbill, of which the following is a copy:—

COUNTY BOROUGH OF HALIFAX.

SMALL=POX.

NOTICE.

Small-Pox having broken out in Halifax, and as Vaccination is the only preventative known, it is strongly advised that all should protect themselves by being Vaccinated or Re-Vaccinated as the case may be.

Vaccination may be performed by your own Medical Attendant, or by the Public Vaccinator, Dr. Drury, of Ferguson Street.

In coping with an outbreak of Small-Pox, it is highly essential that the Medical Officer of Health should have early information of the existence of cases of this disease, because it is not so infectious in the early stages. The

very mild cases are always a source of danger, because in consequence of their mild character they are liable to be overlooked, and spread the disease.

Small-Pox always begins, however mild the case may be, with pains in the back and head, and shivering, then in the course of a day or two, a rash appears, sometimes having the character of measles, but usually consisting of small red spots, appearing first on the face and wrists. The spots enlarge, and in a few days become vesicles containing a watery fluid, when the disease is very infectious.

It is hoped the Public will assist and co-operate with the Health Authority in every possible way, by calling in Medical Advice where any of the above symptoms occur, or giving early information thereof to the Medical Officer of Health. Whenever red spots, even only two or three in number appear on the forehead or wrists, they should arouse suspicion, and the case be reported.

JNO. F. COE, J.P., Chairman of Health Committee. JAS. T. NEECH, M.D., Medical Officer of Health. January, 1905.

In consequence of the somewhat sudden increase in the number of cases reported during the month of January, and occuring as they did in several different parts of the Borough, I became somewhat afraid that a more serious epidemic might occur; consequently, I obtained the consent of the Health Committee, and three additional temporary Inspectors were appointed. These Inspectors made a house to house visitation throughout the greater part of the densely populated portions of the Borough, including those districts from which cases of Smallpox were removed.

The result of the enquiries made during those house to house visitations, assured me that there was no danger of any serious extension of the epidemic.

The majority of the above cases were of a very mild type, and no death resulted therefrom. The only death from Small-Pox which occurred in the hospital during the year, being a person belonging to an outside district.

The following table gives the type of the cases as to severity, and shows the relation to vaccination.

Type.	Total No. of Cases.	Unvaccinated	Vaccinated with number of Cicatrices.						
			1	2	3	4			
Discrete Semi Confluent Confluent	39 7 3	14 7 2	2 1	6	15 	2			
Total	49	23	3	6	15	2			

From the foregoing table it will be observed that nearly half the above cases were unvaccinated, but while that is so, only 35 per cent. of the mild cases were unvaccinated, whereas of the severer type, 90 per cent. had not successfully undergone that operation.

Scarlet Fever.

This disease was prevalent in the Borough more or less throughout the year, but at no time did it assume a serious epidemic form.

During the Summer months, June, July, and August, comparatively few cases were reported, but the disease increased during September, and continued much more prevalent to the end of the year.

In all, 338 cases were reported, against 486 during the previous year.

The utility of our present methods of isolating cases of scarlet fever, so far as the prevention of the disease is concerned, has recently been seriously questioned. That hospital isolation has not had the effect of reducing the incidence of this disease is shown by the following table, in calculating which, periods of five years have been taken, so as to get a fair average, and so eliminate the fluctuations of special epidemic years, which will always occur from time to time.

Period	Average No. of Cases of Scarlet Fever per annum notified	Cases of Scarlet Ever Population Scarlet Population Tool Popul			
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	338	107,500	3.1	3.2	

From the above table it is evident that in taking periods as above, scarlet fever is now rather more prevalent in Halifax than it was 20 years ago. The question then suggests itself as to whether the isolation of cases of scarlet fever is worth the money which it costs the ratepayers. There is no doubt however that in large communities, an isolation hospital for certain cases of scarlet fever is absolutely necessary, for instance, cases which break out at farm houses or other places from which milk is supplied, cases which break out in places of business, must be

removed for isolation, and possibly also those cases which break out in overcrowded houses; but over and above these, I certainly doubt whether the isolation of scarlet fever is worth while.

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	28	17	22	42	18	15	9	20	37	5 0	34	46	338

Of the above 338 cases, 11 died, which gives a deathrate of '10 per 1,000, and a case mortality of 3.2 per cent. of those attacked. During the previous year the deathrate was '21, and the case mortality 4.7 per cent.

Fever.

During the year, no cases of typhus or continued fever were reported, so that all those cases notified were of typhoid or enteric fever. Of the latter, 50 cases were reported, against 47 during the previous year.

This disease was prevalent in the Borough almost throughout the year, May and Juue being the only months during which no cases cropped up. The following table gives the sanitary conditions connected with, and the probable or assigned causes of the notified cases of typhoid fever.

	d	Drai	nage	Venti	lation						able ied ca		
Disease	Number of Cases reported	Good	Bad	Good	Bad	Old Middens	Goux Closets	Water Closets	No trace	From Bad Drains	From a previous case in same house.	From a cold	Contracted away from home
Typhoid Fever	50	42	8	50		4	36	10	42	2	2	1	3

Of the above 50 cases reported, 9 ended fatally, which gives a deathrate of '08 per 1,000, and a case mortality of 18 per cent. of those notified. During the previous year the deathrate was '43 per 1,000, and a case mortality of 21 per cent. respectively.

Diphtheria.

If the notifications of this affection are to be relied upon, this disease was present in the Borough throughout the year.

The total number notified was 87, against 80 during the previous year. I am of opinion that this increase of Diphtheria in our midst is apparent rather than real. It is almost impossible to correctly diagnose true diphtheria from certain other forms of maligant sore throat, except by the bacteriological method. I have been led to form this opinion from a large

number of bacteriological examinations made of secretions from the throat. I believe also that not only do many of these sore throats simulate diphtheria, but they are also more fatal than that disease.

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

	-	Drai	nage	Vent	ilation				P	roba	ble o	rass	igne	l cau	se
Disease	Number of Cases reported	Good	Bad	Good	Bad	Old Middens	Goux Closets	Water Closets	No Trace	From bad drains	From a previous case in same house	From a cold	From other cases in the neighbourhood	Contracted away from home	Contracted at School
Diph- theria	87	77	10	87		1	75	11	70	4	6	3	1	2	1

Of the above 87 cases, 27 died, which gives a deathrate of '25 per 1,000, and a case mortality of 31.0 per cent. During the previous year the deathrate was '15 per 1,000, and the case mortality 21 per cent. respectively.

Erysipelas.

During the year 54 cases of Erysipelas were reported, of which two died. The number reported during the previous year was 73, none of which died.

Measles.

The Borough was practically free from this disease throughout the year. A few cases however occurred about September, and one death resulted therefrom, against 44 during the previous year. This gives a deathrate of '009 per 1,000, against 0.41 during the previous year.

Whooping Cough.

This disease was present in the Borough during the first nine months of the year, its period of greatest prevalence being during January and February. Although a considerable number of cases occurred, the disease at no time, however, assumed a serious epidemic form.

An epidemic of Whooping Cough is very difficult to control; but although that is the case, much more might be done by parents in the way of isolating those sick from the disease, if they would only take the trouble. This disease like Measles is exceptionally fatal to the very young, and increasing years confer increasing immunity. That being the case, the importance of protecting the young from infection becomes at once apparent. If the infection once gains admission to the babies' classes in the infants' school, the disease spreads rapidly among children attending such classes. The disease caused 32 deaths during the year, 31 of which were children under the age of five years. How many of these lives might have been saved, had children of such tender years not been allowed to attend our schools I cannot say, but I am certainly strongly of opinion that the babies' classes in our day-schools are an important factor in causing the spread of this disease, as well as Measles, among the very young.

The above deaths give a deathrate for the year of 0.29, against a deathrate of 0.17 during the previous year.

Diarrhœa.

There were 15 deaths registered in the Borough during the year from those causes which are classified under Diarrhœa, against 29 during the previous year. Of the above deaths, ten occurred during the month of September, and three in October, so that the four-foot earth thermometer does not appear to be very closely associated therewith, because it reached 56° on July 21st, and only remained there until August 5th, and the mean reading of that thermometer for the month of September was 54°, while the mean reading for October was only 50°.

The above 15 deaths give a deathrate for the year of 0.14, against a deathrate of 0.27 during the previous year.

The following table serves to compare the diarrhœa deathrate with the average of other towns and with England and Wales.

			Deathrate per 1000.
England and Wales	· · · ·		0.59
76 Great Towns			0.83
141 Smaller Towns			0.57
England and Wales, less	the 217	Towns	0.35
Halifax			0.14

It will be seen from the above table that the deathrate from diarrhoea in Halifax is not only considerably below the great and small towns of England and Wales, but also is less than half that of what may be called rural England.

It has been frequently asserted that diarrhoea is often due to the improper feeding of infants and children. I have no reason to think that children are more scientifically fed in Halifax than in other parts of the country, consequently while improper feeding may have something to do with the cause of diarrhœa, yet there must be other factors intimately associated with the origin of this complaint. I have no doubt that nature favours Halifax in this direction, and that the high situation of the town tends to give tone to the system, and prevents to some extent the enervation and relaxation which must be the result of higher temperatures in places having lower altitudes. I also think that the improved sanitary condition of the town is an important factor in reducing the deathrate from this cause.

Influenza.

This disease accounted for 18 deaths in the Borough during the year, against 19 for the previous year. These deaths chiefly occurred in the first quarter. During the previous five years, the annual deaths from this cause numbered 19, 10, 9, 9, and 56 respectively.

Respiratory Diseases.

Pneumonia, Bronchitis, and Pleurisy are the diseases included under the above heading, and they caused 286 deaths during the year, viz.:—Bronchitis,

153; Pneumonia, 130; and Pleurisy, 3. The above number gives a deathrate of 2.6 per 1,000, exactly the same as for the previous year, and with it, the lowest on record.

The respiratory deaths in the Borough for the previous five years were 2.6, 2.8, 3.1, 3.0, and 3.7 per 1,000 respectively.

It is satisfactory to note that these figures show a gradual and marked fall in the deathrate from these diseases.

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

Deaths from Respiratory Diseases	January	February	March	April	May	June	July	August	September	October	November	December	Total
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
1903	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	329
Average	40	32	31	29	23	19	14	14	12	22	28	38	

Phthisis.

During the year there were registered 135 deaths from consumption of the Lungs, against 134 and 133 during the previous two years. This gives a deathrate of 1.25 per 1,000, which is the same as that for those years.

There also occurred 58 deaths from other forms of tubercular disease, which, added to the 135 deaths from Phthisis, make 193 deaths due to the various forms of tubercular disease. This gives a total deathrate from all tubercular diseases of 1.7 per 1,000, the same as that for the previous year.

The Phthisis deathrate of the country generally has been steadily diminishing, so has also that of Halifax, as the following table will show.

			Average Deathrate from Phthisis
Ten Years	-	1881-1890	2.00
Ten Years	-	1891-1900	1.20
Five Years	-	1901-1905	1.23

Great efforts are now being put forth by various associations and societies throughout the country, to enlighten the public upon the various causes of this disease, and to impress upon them the fact that it is an infectious disease, and one that is preventable.

If this disease is to be stamped out within a reasonable period of time, it seems to me necessary that the attention of the various sanitary authorities of the country must be more forcibly drawn to this important matter, that they may be constrained to put forth greater efforts in combating this terrible disease, which causes more deaths each year than any other single infectious disease, and in many places, including Halifax, more deaths than all the zymotic diseases added together.

Vast sums of money have been spent up and down the country, in combating Scarlet Fever, and to all appearances that disease is as prevalent as ever. If the same amount of money had been spent in the various methods that are known to be successful in the prevention of this disease, Phthisis would have been much less prevalent than it is to-day, and much greater value for the money spent would have resulted than has been the case in connection with Scarlet Fever.

I am glad to see that the question of the compulsory notification of this disease is making progress and coming to the front, because I am satisfied that that is the first great step which will have to be taken by sanitary authorities if they are to put into operation the necessary preventative measures in a thorough and universal manner.

With our present bacteriological methods, there is now no difficulty in the early diagnosis of the disease, and early diagnosis is even of greater importance in the treatment of the disease, than in the prevention of the same. What we want then now, is compulsory notification, that we may have early intimation of the occurrence of this disease, so that we may be enabled to direct our preventive methods into the proper channels, and extend them sufficiently wide, and bring every possible focus of infection under the influence thereof.

The number of cases registered during the year was 109, of which 63 were males, and 46 were females. In 14 out of the above 109 cases a previous case had occurred within a recent period, in one family 5 previous cases had occurred, and in another, 9.

We have supplied a pocket spittoon, free of charge, to all requiring the same, and when a death, or removal to hospital or elsewhere, of persons suffering from the disease has taken place, disinfection was offered in all cases. During the year 72 houses were disinfected after death, and 4 after removal to hospital. In 28 cases disinfection was refused.

Cancer.

Under the above heading are included the various forms of malignant tumours which affect the human subject, and during the year under notice, 105 deaths were registered as having resulted from these causes, against 91 during the previous year. This gives a deathrate of '97 per 1000.

Though the deathrate is slightly higher than last year, the cancer deathrate of Halifax has not varied very much during the past 13 years, as the following table will show.

Years	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905
Deathrate	.8	.7	.8	-8	1.1	.6	.6	.7	.7	.8	.8	1.0	.8	.9

It appears that nothing definite as to the cause of these affections has yet been established.

Deaths from Violence and Uncertified.

The table which follows gives the number of inquests held during each month of the year, and shows the total number to have been 118.

This table is taken from the report of the Chief Constable, and differs slightly from our figures, because it includes 13 deaths which occurred in the Borough, of persons not belonging thereto.

The 57 deaths certified by the Coroner after inquests, are equal to 3.5 per cent. of the total deaths belonging to the Borough. There also occurred 11 deaths which were neither certified by a registered medical practitioner nor the Coroner. This number is equal to 0.7 per cent, of the total deaths.

The following table gives the percentage for the past five years.

Years	1901	1902	1903	1904	1905
Percentage certified by Coroner Percentage uncertified	2·6 3·4	2·9 2·6	3·1 1·5	2·8 1·0	3·5 0·7

This table shows that there has been a marked diminution in the percentage of uncertified deaths.

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Sewerage and Drainage.

The sewers throughout the main portion of the Borough are mostly in a good and satisfactory condition, and as a large number of house drains are reconstructed and relaid each year, their condition generally in the Borough has improved.

The sewage outfall works at Salterhebble are not yet completed, but sludge pressing machinery has been added thereto, and contracts let for the construction of filter beds.

Scavenging, Disposal of Night Soil and House Refuse.

The scavenging, cleansing, and watering the streets, is carried out by the Health Committee, and the work during the past year has been satisfactorily done.

The greater part of the night soil of the Borough is dealt with under the "Goux" system, there being 17,661 of these closets in the Borough, and 5,157 water closets, an increase during the year of 233 goux, and 166 water closets respectively.

I again desire to draw the attention of the Committee to the fact that, in my opinion, water closets should be insisted upon for all new houses, as the present "Goux" system is a serious charge upon the rates, and the longer the change to water-carriage is delayed, the greater will be this charge upon the rates.

There are at present 921 privy middens in the Borough, a decrease of 43 during the year, and 484 dry ashpits, against 489 a year ago, a decrease of five during the year.

Water Supply.

The water is delivered to the town at a high pressure, and with a constant supply, but coming as it does chiefly from moorland, it is liable at times to contain an excess of peaty acids.

The water of Ogden reservoir is especially liable to be very acid at certain times of the year, and it has now been treated for several years with chalk and lime, with very satisfactory results.

The following table shows the average acidity of the samples of Ogden water taken monthly, before and after treatment. The acidity is given in terms of sulphuric acid, and in parts per 100,000.

		Average Acidity of	Sample of Water.
М	onth	Taken from Reservoir	Taken after Treatment and as supplied to the Consumer
January		 No estimation	No estimation
February		 .63	.21
March		 .63	.20
April		 .78	.26
May		 .78	.16
June		 No estimation	No estimation
July		 No estimation	No estimation
August		 .39	.12
September		 No estimation	No estimation
October		 .28	.06
November		 .82	.08
December		 1.50	·12

The following table gives the monthly average acidity of the water in Ogden Reservoir during the past five years.

OGDEN WATER.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Five Years' average	83	93	-96	-73	.75	.64	·65	-65	·68	-81	·87	-90

From the above table it will be observed that the water contains least acid during the summer months, and most during the spring months of February and March.

There is no doubt that the presence of acid in drinking water increases the plumbo-solvent power of the water, although the action of such water on lead is not altogether due to the amount of acid therein, because there appears to be no definite relationship between the amount of acid present in the water, and its plumbo-solvent power. As to the exact nature of this acid, and its mode of origin, there is still some doubt. It has been supposed that the acids are derived from the peat, but even if that is the case, the amount of acid present in the water in the reservoirs bears no relation to the amount of rainfall in that district, as the following table will show, which gives the average rainfall at Ogden during the past five years, and the average acidity in the reservoirs.

	Ionth	Average	, 1901-5
	ionui	Rainfall	Acidity
January		 3.16	.83
February		 3.11	.93
March		 3.21	.96
April		 2.57	.73
May		 2.56	.75
June		 1.77	.64
July		 2.63	.65
August		 4.43	.65
September		 2.65	.68
October		 4.95	.87
November		 4.07	.87
December		 3.91	.90
MATERIAL VALUE OF THE PARTY OF			

The main portion of the town is supplied from Ramsden Wood Reservoir, into which the storage reservoirs flow. The mixed water in this reservoir has always been found to contain much less acid than that in the Ogden Reservoir, and up to April of the year under notice had never been treated. I recommended the Waterworks Committee to undertake the treatment of this water, and since the month of May of the year under review, lime has been added to the Ramsden Wood water immediately it leaves that reservoir, and before its distribution to the service reservoirs.

The result of this treatment has been the reduction of the acidity of Ramsden Wood water by nearly one half. I consider that even a little more lime would be beneficial, because I should like to see the water supplied to the borough as near neutral as possible, for there is no doubt that the acid present in the water greatly tends to increase its plumbo-solvent properties.

The following table gives the average monthly acidity of samples of water from Ramsden Wood Reservoir, before and after treatment.

	r 1)		Ramsden W	ood Reservoir
2	Ionth		Before treatment	After treatment
January			·27	Not treated
February			.25	,,
March			.30	,,
April			.45	,,
May			.45	.23
June			.48	.25
July			.35	.22
August			.19	.14
September		N	o estimation	23
October			.30	.18
November			.45	.27
December			.30	.20

Most of the gathering ground connected with the storage reservoirs is the property of the Corporation, and the Waterworks Committee have taken great care for a number of years past, to protect the same from pollution. There is now no danger whatever in the way of sewage pollution, and in that respect, no town in the Kingdom has a purer water supply. It is of course impossible to prevent the water from taking up peaty acids, coming as it does from the moors; but since the whole of the water is carefully treated, the danger of lead poisoning is reduced to a minimum, if not abolished altogether. No cases of such poisoning have come under my notice during the past year.

Common Lodging-houses.

There are still 16 Common Lodging-houses in the Borough, which are registered to accommodate 821 lodgers.

These houses now require to be re-registered each year in May, under the provisions of a local Act of Parliament, and we have found these powers very beneficial in the way of securing a more speedy abatement of nuisances arising in connection with them.

The supervision of the Common Lodging-houses is under the Police, and they are responsible for the administration of the Bye-laws concerning them.

I am informed by the Chief Constable that there has been no case of overcrowding, and no case for complaint of any kind during the year.

Inspector Archbell also visits these houses occasionally, but in consequence of the absence of smallpox during the past year, they have not been so frequently visited by him, as they were during the previous three years.

Dairies, Cowsheds, and Milkshops.

The inspection of dairies, cowsheds, and milkshops, is carried out by the Meat Inspector, J. T. Millington, and for the Warley and Illingworth district, by District Inspector R. Pickard. During the year also, a number of these were visited by myself. The number at present on the register is as follows.

Cowsheds Milkshops		 507 68
	Total	 575

The total for the previous year was 564 being an increase of 11.

The number of dairy farmers and purveyors of milk on the register is 434, against 421 for the previous year, or an increase of 13.

This does not necessarily mean that there are 13 more milk dealers in the Borough than there were during the previous year, because we found that a good many were carrying on the business without being registered. The attention of these were called to the law on the matter, and they immediately complied therewith by making application, and were placed on the register.

We are endeavouring gradually to bring about an improvement in the condition of the cowsheds in the Borough, and so far as their structural condition is concerned, we are making progress.

Our policy is to enforce the regulations in certain of the worst cowsheds each year. By this means, in the course of a few years, we expect to accomplish a considerable improvement in this direction. In all, 16 were altered and reconstructed during the year, which together with 42 previously reported on, a total of 58 cowsheds have been dealt with in this way since the present regulations came into force.

While an improvement is taking place in the structural condition of the cowsheds, I am afraid that an equal progress is not taking place on the part of the cowkeeper himself in the way of greater cleanliness in connection with the cow, the milker, the cowshed, and the milk vessel. I believe that rather more attention is now being paid to these matters, and the

farmer appears to be rather more anxious than heretofore to obtain information on these points, for their association asked me if I would give a lecture on these subjects to their members. This I did, and a goodly number attended thereat.

That milk should be clean and as free as possible from microbes is highly important to the consumer, and especially children. It seems to me that we shall not secure any marked progress towards an ideal milk supply, until the public generally demand it.

The Inspectors between them paid 846 visits to the cowsheds, as well as 131 visits to the various milk-shops in the Borough.

The following table gives the number of defects found, together with the number remedied.

Nature of Defects	Number Reported	Number Remedied
Want of Light	10	13
Do. Airspace	9	15
Do. Ventilation	11	16
Made un and Defective Duciness	32	29
	13.	10
Untrapped Drain inside Cowshed		1 77.0
Defective Floors	16	18
Dirty Floors and Stands	7	6
Cowsheds requiring Limewashing	17	17
Offensive and Defective Cesspools	6	6
Delivery Can unlabelled	1	1
Improper position of middenstead	4	1 2 7 2 3
Dian best in Comphed	4 7	7
Again lations of Manura	9	9
3.5 (1) 3 13	2	2
Manure Tanks built		9
Totals for 1905	135	145
No of Defects on books Jan. 1st, 1905	211	
Total	346	
Defects still on books Dec. 31st, 1905	201	

As will be seen by the above table, the number of defects standing on the books is still large, and only slightly below the corresponding number twelve months ago. This has arisen through the resignation of Inspector J. K. Crawshaw in the middle of the summer months, which is the period of the year during which the greater number of the defects have to be remedied. We were consequently without an Inspector during six weeks, and it takes a new man coming on the scene some time before he is capable of taking up the work, hence the summer had passed before it was possible to get much done. It is expected, however that during the course of the ensuing year, considerable progress will be made in remedying and reducing the number of these defects.

During the year 417 cows were individually examined, against 308 during the previous year, and out of that number, four were found to have diseased udders. The details of these inspections are set out in a table on the following page.

INSPECTION OF CATTLE.

	Cat	ttle and Condition.		
Date of Inspection.	Examined Udders diseased	General Condition	Condition of Shed	Remarks
Mar. 20 ,, 23 1 ,, 30 Apr. 17 1 ,, 30 Apr. 17 1 ,, 11 ,, 12 ,, 12 June 22 Oct. 27 1 Nov. 10 1 ,, 22 2 ,, 30 Dec. 1 ,, 30 Dec. 1 ,, 31 ,, 6 ,, 7 ,, 6 ,, 7 ,, 15 ,, 22 ,, 30 ,, 30 ,, 31 ,, 31 ,, 32 ,, 31 ,, 32 ,, 31 ,, 32 ,, 33 ,, 34 ,, 36 ,, 37 ,, 37 ,, 38 ,, 30 ,, 30 ,, 31 ,, 31 ,, 32 ,, 31 ,, 32 ,, 33 ,, 34 ,, 35 ,, 36 ,, 37 ,, 38 ,, 30 ,, 31 ,, 31 ,, 32 ,, 31 ,, 32 ,, 33 ,, 34 ,, 35 ,, 36 ,, 37 ,, 38 ,, 37 ,, 38 ,,	2 7 4 6 1 6 1 1 1 1 3 9 0 2 6 8 8 9 3 3 5 5 1 4 4 6 9 7 2 2 3 3 5 3 5 4 6 9 7 2 3 7 2 3 3 5 7 4 4 6 9 7 7 2 3 7 3 7 3 7 4 7 7 2 3 7 3 7 3 7 7 7 7 7 7 7 7 7 7 7 7	Bad Moderate Good Good, but 1 ill poor and ill Good "" "" "" "" "" "" "" "" "" "" "" "" "	Bad Moderate Bad Good 1 shed moderate & 1 bad Moderate Good "" "" "" "" "" "" "" "" "" "" "" "" "	Sent to Knacker later Just commenced keeping cattle Cow slaugetered same day No regular customers for milk No milk sold from here 1 been killed and destroyed Had sample of poor milk here Sent to Knacker, June 26th Inflammation of udder, killed next day Tuberculous calf came from here Insufficient air space Roof of shed too low Cow with Mammitis, recovering, dry Insufficient air space Cow probably tuberculous, but udder right Poor cow slaughtered week later, proved to be tuberculous Poorly cow improving; another bad throat

Slaughterhouses.

There are still nine private slaughterhouses in the Borough, which are mostly situated in districts which have been recently added. These slaughterhouses have been visited during the year, and kept as far as possible under regular supervision. They have been found on the whole to be kept in a fairly satisfactory condition.

The public slaughterhouse which is an old building, and was in existence when the Borough was incorporated in 1848, has been renovated by the Markets Committee, and put into a better sanitary condition, consequently it is possible to keep the same in a cleaner and sweeter state. Greater attention is now paid to those matters, and I have had no cause for complaint during the year.

The following table gives the number of animals that were slaughtered in the public slaughterhouse during the year ended June 30th, 1905.

Cattle.	Calves.	Pigs.	Sheep	Total.
4601	3558	6696	17126	31981

There were 340 separate seizures of meat during the year.

The following table shows the number of carcases condemned, and the total weight of the same.

1	Cattle.	Calves.	Sheep.	Pigs.	Total.
Number of Animals killed Do. condemned Weight of those con-			17126 8	$6696 \\ 21\frac{1}{2}$	31981 66
	5620	1600	556	2541	10317

The following table gives the diseases and other conditions which led to the condemnation of meat during the year.

	Anthrax	Actinomycosis	Tuberculosis	Morbund	Jaundice	Inflammatory Diseases	Febrile Diseases	Rheumatism	Septic Diseases	Putrid	Decayed	Unsound	Unwholesome
Cows	 1	1	41	2		1	1		2			3	
Calves	 		$\frac{4\frac{1}{2}}{3}$	2		2					1	9	5
	 			4	1					1		2	
Pigs	 		10^{1}_{2}	1	5			2				2	
Rabbits	 									8			
Totals	 1	1	18	9	6	3	1	2	2	9	1	16	5

Besides the above, the following were also destroyed.

Offals		lbs. 4967
Fish		 4831
Fruit		 2000
Other	Foods	 930
Othor	2 0000	 000

Tuberculosis was the chief cause of the seizure and destruction of meat, as the following table will show.

Total amount destroyed		lbs. 17,468
Total amount of Meat destroyed		
on account of Tuberculosis	5,174	
Total amount of Offals destroyed		
	3,754	
Total amount destroyed on account -		
of Tuberculosis		8,928
Total amount destroyed from other ca	uses	8,540

It is worth noting however that the proportionate amount destroyed on account of Tuberculosis was less during the year under review than during the previous year, as the following table will show.

	1904.	1905.
Total amount destroyed	30,654	 17,468
Total amount destroyed for		
Tuberculosis	19,826	 8,928

I consider the above table highly satisfactory, because not only does it show that there was less meat seized on account of Tuberculosis, but also that the total amount destroyed was considerably less, and this has not arisen through a falling off in the number of animals killed at the slaughterhouse, because 309 more were killed during the year under review than during the previous year. I take it that this points to the fact that the butchers generally are taking greater care in the selection of cattle to be slaughtered for the meat supply to the public. Further I also hope that this diminution in the amount of Tuberculosis found in slaughtered cattle, points to a diminution in the amount of tubercular disease among the cattle and pigs of the district.

The greater part of the meat shown to have been destroyed in the above table was taken with the consent of the owner.

Only two prosecutions were instituted during the year for exposing diseased meat for sale. One case was not serious, and the defendent was let off with a nominal fine. The other case was a serious one, and the magistrates inflicted a substantial penalty. One person was summoned for slaughtering on unlicensed premises, this however was withdrawn on payment of costs.

The following table gives the number of animals killed in the public slaughterhouse during the past seven years.

Year ended	Cattle	Calves	Sheep	Pigs	Total.
June 30th, 1899		4208	20270	7019	36830
,, 1900		4395	17245	7896	35066
,, 1901 ., 1902		4089 5018	16479 17802	6924 5702	32351
,, 1902		4422	17776	6599	33834 33788
,, 1904		3916	16788	6678	31672
,, 1905	4601	3558	17126	6696	31981

The preceding table shows that there has been a falling off in the amount of slaughtering done in the public slaughterhouse, though during the year under review when compared with the previous year, a slight increase is observed.

The butchers certainly are exhibiting a greater desire to supply nothing but wholesome meat to the public, and they take greater interest in the diseases from which animals suffer, and especially Tuberculosis. At their request, I gave them a further lecture during the year under review on that subject.

Factories and Workshops.

Although considerable improvement has been made in regard to the sanitary conveniences of factories in the Borough during recent years, there is still room for further improvement. We are however gradually dealing with the worst of these, progress is being made, and in the course of a few years, it is expected that satisfactory advancement will have been made, in this direction.

As will be seen by the table which follows, some 231 visits were paid by the Inspectors during the year to the various factories in the Borough. I have also made several visits myself, where special circumstances required the same.

The above visits were chiefly made for the purpose of inspecting the condition of the sanitary conveniences, and of supervising the necessary alterations thereto, for the abatement of nuisances, and the remedying of defects in drainage and the like.

A register of all the workshops situated within the Borough is duly kept.

The workshops have been visited from time to time during the year, and although a number of various defects were found, they appeared to be on the whole fairly well kept, as far as the requirements of the Factory Acts are concerned.

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

District	Number of Visits made to Factories	Number of Visits made to Workshops	Number of Visits made under Shop Hours Act
A	89	539	859
В	83	340	378
C	29	326	351
D	30	116	10
Total	231	1321	1598

As a result of these visits, certain sanitary and other defects were discovered. These are set out in detail in the tables which follow, and each table represents a district which is under the supervision of a Sanitary Inspector.

DISTRICT A.

INSPECTOR JAMES ARCHBELL.

Number of Workshops on Register, 220.

Nature of Nuisance.	Number Registered.	
IN FACTORIES.		
Insufficient privy accommodation	15	
Defective water closets	 ,	14
Defective drains	 	6
Closets to limewash	 	13
IN WORKSHOPS.		
Insufficient privy accommodation	 	11
Defective water closets	 	9
Defective drains	 	6
Want of Ventilation	 	4
Workrooms requiring limewashing	 	61
Total	 ***	139

DISTRICT B.

INSPECTOR JOHN WOOD.

Number of Workshops on Register, 310.

Nature of Defects.		Number Registered.
IN FACTORIES.		
Insufficient flush to water closets		 8
Bad smells		 3
Made up water closet		 1
Defective closets and drainage		 1
Nuisance from smoke		 5
Made up lavatory wastes		 2
Offensive sewage		 1
Insanitary closets		 8
IN WORKSHOPS.		
Rooms requiring limewashing		 17
Insufficient privy accommodation		 6
Untrapped drainage		 4
Want of Urinals		 2
Dilapidated Closets		 4
Dirty floors and staircases	***	 3
Total		 65

DISTRICT C.

INSPECTOR JAMES EDWARD FIRTH.

Number of Workshops on Register, 183.

Nature of Defects.			Number Registered.
IN FACTORIES.			
Broken and made up water closets			1
Broken traps			2
Defective water closets			3
Made up yard and lavatory drains			1
IN WORKSHOPS.			
Defective, broken, and made up wat	er close	ts	3
Insufficient privy accommodation			2
Door broken off closet			1
Accumulation of rubbish			1
Workrooms requiring limewashing			7
Dirty closets			6
Defective roofs and damp walls	***		1
Insufficient ventilation			1
Offensive fumes from gas fires			1
Total			30

DISTRICT D.

INSPECTOR ROBERT PICKARD.

Number of Workshops on Register, 79.

Nature of Defects.			Number Registered.	
IN FACTORIES.				
Dilapidated closets			2	
Dirty Privies			2	
Want of urinal			1	
Insufficient closet accommodation			2	
Want of separate closets for sexes			1	
IN WORKSHOPS.				
Insufficient closet accommodation			. 1	
Workrooms requiring limewashing			3	
Dirty closets			1	
Want of ventilation			1	
Total			14	

The number of nuisances and sanitary defects detailed in the foregoing tables in connection with factories and workshops is 248, against 342 during the previous year. Of the above 248 nuisances and defects, 238 were remedied or abated, and the remaining 10 had not been abated at the end of the year.

A number of notices were received from the Factory Inspector during the year, with regard to defects in the sanitary arrangements of factories and workshops, and 14 of the above nuisances were remedied as the result thereof. Upon the completion of the work, a formal notice of abatement was sent from this office to the Factory Inspector.

In accordance with section 107 of the Factory and Workshops Act, the number of Outworkers notified during the year were as follows.

	Tailors.	Shoe- makers.	Seam- stresses	Total.
No. of Outworkers	23	1	5	29

All of the above resided within the Borough, and the houses in which they worked were visited from time to time. No cases of infectious diseases were reported, and they were found otherwise satisfactory.

On the opposite page is a detailed list of all the workshops on the register in the Borough.

Boot, Shoe, and Clog Makers		Fibrous Plaster Works	1
Dress and Mantle Maker		Joiners & Cabinet Makers	67
Saddlers	. 12	Brush Makers	13
Milliners			4
Cotton Doubler		Rag Sorters	12
Coopers		French Polishers	
Bakehouses		Tailors	. 68
Flock Merchant		Marine Store Dealers	. 5
Silversmiths		Blacksmiths	25
Whitesmiths	5	Upholsterers	. 12
Coach Builders		Umbrella Makers	. 2
Rope Makers	1 3	Box Makers	. 2
Wood Carvers	. 6	Surgical Inst'm'nt Maker	r 1
Wool Sorters	1	Fruit Boilers	
Cork Cutters	. 2	Paper Maker	. 1
Gun Makers			23
Carpet Repairers		Wheelwrights	. 12
Picture Frame Makers		Painters	
Wire Worker	4,000	Plumbers	25
Basket Makers	3	Printers	
Tinners	15.5	Sweet Boilers	
Locksmiths	756	Tripe Dealer	. 1
Cutlers		Clog Sole Makers	
Underclothing Makers		Belt and Brace Makers	2
Venetian Blind Makers		Sewing Machine Maker	
Electrical Engineers	2	Shirt Makers	
Piano Makers	4	Watch Makers	10
Soap Maker	1	Old Clothes Dealers	. 4
Drysalter	. 1	Pattern Maker	1
Boot Upper Maker	. 1	Leather Cutters	. 3
Cycle Works	2	Sugar Packer	1
Tea Packers	4	Designers	. 3
Brass Works	4	Metal Engraver	1
Laundries	. 10	Beer Bottling	. 2
Hair Pad Makers	. 4	Hair Dressers	
Machine Makers	. 2	Mattress Maker	. 1
Machine Broker	1	Metal Polish Maker	. 1
Marble Masons .	. 2	Herbal Brewery	. 1
Shoeing Smiths .	2	Carpet Beater	. 1
	3	Chair Maker	. 1
Paper Bag Maker .	1		
Total number		rkshops 980	
		_	

Bakehouses.

There are 167 bakehouses registered within the Borough, and they have been all visited from time to time during the year.

Taking the bakehouses generally, there is now a considerable improvement in them, both in regard to the suitability of the buildings for the purpose for which they are used, and in the matter of cleanliness. More attention appears to be now given to the latter, than formerly was the case, though I must say in some cases there is room for improvement.

In the beginning of the year under notice, there were 27 underground bakehouses in existence, all of which have received a certificate of their fitness for use for that purpose in accordance with section 101 of the Factory and Workshops Act. During the year, one underground bakehouse ceased to be used as such, and the premises have since been converted to another use, consequently there are now 26 underground bakehouses in the Borough.

The following table gives the number of bakehouses on the register, and the number of visits paid thereto during the year.

Description of Premises.	Number on Register.	Number of visits made.
Wheat bread and muffin bakers, including confectioners	139)	
Oat bread and muffin bakers	28	452

As a result of the above visits, some 27 defects were found, which are set out in the following table, together with the number remedied.

Nature of Defects.	Number Reported.	Number Remedied,
Brought forward from last year Defective drains, and sink waste pipes	1	
to disconnect	5	5
Bakehouses requiring limewashing	11	11
Insufficient ventilation	4	3
Do. light	1	1
Damp walls	4	2
Accumulation of rubbish	1	1
Fowls kept in bakehouse	1	1
Total	28	24

The number of defects discovered is very small in comparison with previous years. This arises from the fact that the bakehouses are now in a much better and more sanitary condition than ever they were, and no doubt this has been brought about to a great extent, through the increased attention that has been paid to them as a result of the coming into operation of section 101 of the Factory and Workshops Act, 1901. Two of the above defects were remedied after notice from the Factory Inspector, and four remained unabated at the end of the year.

Ice Cream Makers and Vendors.

There appears to be a considerably less number of itinerant dealers in this article than formerly. This I take it arises from the fact that a large number of confectioners' shops now make and sell ice cream. This is an advantage, because the ice cream will be made under much better sanitary conditions than usually obtained in the rooms which the itinerant dealers occupy for that purpose.

The latter have been visited from time to time during the year, but no serious cause for complaint was found in any case.

Public Health Laboratory.

I regret to have to report that much less use was made of the laboratory during the year, as only 57 specimens and samples were examined, against 204 during the previous year, but while this is the case, between May and September, I examined 60 samples of water for the Waterworks Committee. This corresponds with the period which intervened between the death of the late Borough Analyst, and the appointment of the present one.

The following table gives details of some of the work done.

	Number of	Results of Examination.		
Disease.	Specimens.	Positive.	Negative.	
Diphtheria (Swabs)	25	5	20	
Tuberculosis (Sputum)	17	7	10	
Do. (Urine)	1	0	1	
Do. (Milk)	1	0	1	
Typhoid (Widal's Reaction)	2	1	1	
Total	46	13	33	

Besides the foregoing, seven specimens were examined from the Slaughterhouse, among which were found, Anthrax one case, and Actinomycosis one case.

From the above table it will be observed that the majority of the swabs sent to the laboratory, taken from throats of persons suspected to be suffering from Diphtheria, were found to give a negative result.

This is what usually occurs, although the percentage of positive results was greater than that of the previous year. During the past year, 20 per cent. of the swabs sent, contained diphtheria baccilli, whereas in only 13 per cent. of those sent during the previous year could the bacillus be found.

It is hoped that greater use will be made of this laboratory in the future, because at any rate, both with Diphtheria and Tuberculosis, the information which can be obtained by examining specimens from these cases, is most useful.

Midwives' Act.

The administration of this Act has been delegated to the Health Committee, and all the necessary steps were taken for the purpose of putting it into operation. What is needed now is a Lady Health Visitor, properly qualified for the purpose, to pay periodical visits to those registered under the Act, and until such an appointment is made, no proper supervision can be exercised over these women.

The following is a list of those who were registered at the Health Office during the year under notice.

Name.	Address.
Buckley Mary Ann Bowling Betty Crowther Hannah Elizabeth Haigh Matilda Edwards Sarah Birrell Agnes Wood Mary Elizabeth Sutcliffe Ellen Greenwood Mary Louisa Lumb Elizabeth Ann Firth Margaret Firth S. A Shelley Emelina Haslem Sarah Ann Ogden Emma Halstead Frances Ellen Wade Hannah Connew Sarah Crabtree Isabella Robinson Mary Ann Aaron Hannah Fielden Louisa Crossley Hannah Holroyd Arnold Mary Ann Farrar Elizabeth Smith Emma Wilkinson Ann Scholes Annie Milner Mary Hannah Miner Mary Hannah Marsland Emma Marsland Emma Marsland Emma	8, Wainhouse Terrace 3, Buttress, Luddenden 39, Hammond Street 142, Southowram Bank 47, St. Stephen St., Copley 24, Gladstone Road 10, Fern Street, Boothtown 490, High Road Well 8, Brickfields, Holmfield 13, Kingston Street 5, Dunkirk Street 7, Concrete Street, Lee Mount 5, Prince Street 59, Clive Street 59, Clive Street 59, Bath Place, Woodside 5, Summer St., Fenton Road 3, Aspinall Street East 4, Lintelfield Street 23, Clay Street, Hanson Lane 31, Bright Street 14, Ashbourne Grove 7, Lane Ends, Wheatley 24, Winn Street 25, Fairview Terrace 18, Garside Street 22, Pulman's Yard 21, Causeway Foot 18, Elephant Terrace 4, Pulman's Place 18, Malt Shovel Yard 27, New Bank 16, Cherry Street
Smith Clara	4, Brier's Square, Well Lane

Disinfection.

The disinfecting chamber is situated at Stoney Royd Hospital, and that for smallpox is Thresh's apparatus, which is moveable, and when in use, is kept in the grounds in which the smallpox hospital is situated.

During the year under notice there were 9,472 different articles disinfected at Stoney Royd disinfecting station, and 30 in the disinfector at the smallpox hospital, making a total of 9,502.

There were 1,190 rooms in private houses fumigated with Sulphur or Formaline, and disinfected, also 4 elementary day schools were disinfected. The latter are given in the following table.

Date,	Name of School	•		Number of Rooms Fumigated.
January 21st February 27th April 1st ,, 4th September 16th ,, 23rd	Siddal Warley Town School Holy Trinity (Girls) ,, (Boys) Lee Mount (Infants) ,, ,			17 11 8 4 6 12
	Total No. of Room	s disin	fected	58

Disinfecting fluid is supplied free of charge to those in whose family infectious disease occurs, on application at the Health Office.

Schools and Infectious Diseases.

There is no doubt that the elementary day schools offer facilities for the spread of infectious diseases of various kinds. Although that is so, it is quite possible that too great a stress is laid at times upon this source of infection. Out of 338 cases of scarlet fever

notified in the Borough during the year under notice, 181, or rather more than half those attacked with the disease were actually in attendance at school, while at least 100, or nearly one third of those attacked, were above school age.

In the case of Diphtheria, out of 87 cases reported, only 25 attended school.

The following table gives a list of the schools affected with Scarlet Fever and Diphtheria during the year, and the number of cases reported from each school.

Name of School	Scarlet Fever.	Diphtheria.	Total.
Lee Mount	 35	2	37
Mechanics' Institute,			
37 3	 21		21
Moorside	 14	3	17
Siddal	 11	5	16
Warley Road	 13 .	3 5 2 2	15
Parkinson Lane	 11	2	13
Battinson Road	 10		10
Sunnyside	 10		10
Queen's Road	 7	2	9
Salterlee	 7		7
Parish Church	 6		6
St. Augustine's	 4	2 1	6
Pellon Lane	 3	1	4
Mixenden	 3	1 2	4
High School	 2	2	4
Ackroyd Place	 3		3
Boothtown	 3		3
Portland Road	 3		3
Haugh Shaw	 1	2	3
St. Joseph's	 2		2
Heath	 2	***	2
Luddenden	 2		2
Moorside (Infants)	 2		2
Lee Mount ,,	 4 3 2 3 3 3 1 2 2 2 2 2 1		3 3 3 2 2 2 2 2 2
Tuel Lane	 1		1
St. Marie's	 1	***	1
Catherine Slack	 1		1
Bradshaw		1	1
Holy Trinity	 1		1
Total	 181	25	206

In consequence of an outbreak of smallpox in a neighbouring district, from whence the children attended Warley Town school, it was deemed advisable to close the school.

The Infants' department of only one other school was closed during the year, as will be seen from the following table.

Disease.	Name of School.	Date of Closure.	Period of Closure.
Smallpox	Warley Town	March 1st	3 weeks 10 days
Scarlet Fever	Lee Mount (Infants)	Sept. 22nd Oct. 23rd	4 weeks 4 weeks

Meteorological Observations.

These observations are taken by Mr. Whiteley in the grounds of the Public Library at Belle View, and the results are set out in a table which follows.

The following table gives the number of days on which rain fell, and the rainfall in inches during during the past 12 years.

Year.	No. of Days Rain Fell.	Amount of Rainfall
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

From the preceding table it will be seen that the rainfall for 1905 was below that of any year during the past 12 years, also that the number of days on which such fell were fewer than since the year 1901.

The rainfall is also collected at ten other stations distributed over the area of the Halifax Corporation Waterworks.

The following table gives the stations, the height above sea level of each in feet, and the rainfall for year 1905.

HEIGHTS ABOVE SEA LEVEL IN FEET.

	1380	1350	1325	1375	1050	1060	990	815	795	568
1905.	Walshaw Dean.	Midgley Moor.	Warley Moor.	Ovenden Moor.	Widdop.	Castle Carr Lodge.	Ogden.	Ramsden Wood.	Albert.	Gibbet.
T	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins,	ins.	ins.
January	2.09	2.62	2.30	2.45	2.51	2.27	2.01	1.75	1.83	1.75
February	2.29	2.96	2.48	2 57	2.77	2.46	2.26	2.06	1.80	1.91
March	3.45	3.65	3.63	3.20	4.23	3.23	3.29	3.10	2.86	2.88
April	3.55	3.52	3.54	3.06	3.79	3.54	3.15	2.61	2.39	2.35
May	.89	.90	-99	.95	1.21	.90	.99	.66	.58	.57
June	2.03	2.27	2.32	2.85	2.79	2.14	2.75	2.00	1.81	1.95
July	2.42	2.65	2.72	2.53	2.54	2.53	2.51	2.49	2.01	1.97
August	4.82	5.64	6.21	6.09	4.78	5.75	5.70	5.23	4.93	5.02
September	3.19	3.01	2.94	2.85	3.16	2.87	2.54	2.55	2.25	2.11
October	3.72	4.28	4.13	4.47	3 64	3.72	3.84	2.97	2.54	2.44
November	4.77	5.36	5.54	5 14	5.66	5.36	5.03	3.94	3.77	3.84
December	1.92	1.37	1.33	1.51	1.57	1.23	1.28	.71	.64	.58
Totals	35.14	38.23	38.13	37.97	38.65	36.00	35.32	30.07	27.41	27.37

The average rainfall on all the gauges, 1904 ... 35·82

Do. do. 1905 ... 34·42

Difference ... 1.40

General Summary of Meteorological Observations taken at the Public Library, Belle Vue, from January 1st, 1905, to December 31st, 1905.

By J. Whiteley, Secretary and Librarian.

 ${\tt LATITUDE} \ \ {\tt OF} \ \ {\tt STATION} \ = \ 53^{\circ} \ 43^{\circ} \ {\tt N}. \qquad \qquad {\tt LONGITUDE} \ = \ 1^{\circ} \ 52^{\circ} \ {\tt W}. \qquad \qquad {\tt HEIGHT} \ \ {\tt ABOVE} \ \ {\tt SEA} \ \ {\tt LEVEL} \ = \ 625 \ \ {\tt FEET}.$

1905.	Preset Atmosp Mon	are of here in th.		Te	mperatu	re of Mor	rth.		Temp	fean serature.		Vapour.		7	fa tir.	Mean Re- Thermo	ading of meter.			Wind.				1	Rain.	
							Mean.				8	In a foot o	d Air.	ean degree Hunddity.	Weight of a foot of Air.	Sun.	um dir.	their the	В	clative p	reportion	of	Cloud	lays	47	Remarks.
Month.	Mean	Range,	Highest.	Lowest.	Eange.	Of all Highest,	Or all Lowest.	Daily Eange.	Air.	Dew Point,	Elastic For	Mean.	Short of Saturation.	Mea	Mean cubic	Maximum in Eays of Sun.	Minimum on Grass.	Estimated Strength.	N.	E.	8.	w.	Mear	No. of Days it fell.	Amount Collected.	
February March April May June July August September October November	29·471 29·488 28·950 29·134 29·428 29·306 29·381 29·145 29·274 29·325 29·003 29·448	1·509 1·866 1·112 0·728 0·512 0·966 0·944 1·380 1·268 1·508	51.8 65.6 57.9 70.8 74.9 86.4 60.9 62.4 59.8 51.0 50.6	26·4 30·1 22·5 33·5 42·4 46·6 44·5 37·4 31·0 24·4 28·0	25·4 35·5 35·4 37·3 32·5 39·8 16·4 25·0 28·8 26·6 22·6	43·4 48·2 46·5 55·7 63·1 66·9 60·8 56·7 48·4 44·5 44·2	35·4 36·1 32·1 41·0 47·1 51·9 49·1 46·6 37·8 36·0 37·4	8·0 12·1 14·4 14·7 16·0 15·0 11·7 10·1 10·6 8·5 6·8	39·4 42·0 40·1 48·9 55·5 59·9 55·4 40·4 41·1	36·2 35·5 35·4 39·5 47·0 50·6 47·0 47·1 37·5 34·3 36·6	0·214 0·218 0·207 0·263 0·325 0·369 0·321 0·333 0·224 0·197 0·215	2·5 2·4 3·0 3·7 4·1 3·9 3·7 2·6 2·2 2·5	1·4 0·5 1·0 1·2 1·7 1·2 0·6 0·7 0·9 0·5	89 64 86 79 71 81 89 79 79 85	548·8 545·6 535·7 537·5 528·2 520·4 516·0 523·4 529·9 540·1 537·6 544·7	53·1 67·6 70·9 84·4 94·5 99·4 89·0 	32·7 34·8 36·7 43·9 48·2 32·8 31·6	3·0 2·0 2·4 1·7 2·3 1·7 2·0 2·2 1·7	19 17 3 5 17 21 15 2	9 0 12 9 5 18 3 18 3 2 8 6	9 9 18 13 13 11 7 11 13 5 12 11	35 35 20 20 17 9 26 24 22 26 12 30	8·1 8·1 7·0 7·1 6·9 7·0 6·2 7·6 7·5 7·0 7·8 7·6	16 15 23 22 7 9 13 20 17 10 24 11	1.55 1.72 2.78 2.49 0.52 1.81 1.91 4.87 1.97 2.15 3.64 0.53	The observations have been reduced to mean values by Glaisher's Barometrical & Diurnal Range Tables, and the Hygrometrical results have been deduced from the seventh edition of Hygrometrical Tables, after corrections for Index errors of the Instruments employed.

Note.—The Annual Means give the Averages for Twelve Months.

The Mean Readings of the Earth Thermometer, four feet below the surface, were as follows:—January, 42°; February, 42°; March, 42°; March,

Rain fell on 187 days, and the amount collected was 25.94 inches.



Sale of Food and Drugs Act.

There were 154 samples of food and drugs analysed during the year, against 209 during the previous year. This resulted chiefly from the fact that we were for several months during the year, without a Public Analyst, owing to the lamented death of late Mr. Ackroyd, and the necessary delay in the appointment of his successor.

The following table gives the number analysed per 1,000 population during the past six years.

Year.	Number of Samples Analysed.	Estimated Population of the County Borough.	Number of Samples Analysed per 1000 of the Population.
1900	210	101,187	2.07
1901	183	105,120	1.74
1902	217	105,978	2.04
1903	155	106,800	1.45
1904	209	107,000	1.95
1905	154	107,500	1:43

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

Wind of i	Number	Results of Analyses.					
Kind of s	Kind of Sample,				Doubtful.	Adulterated	
Margarine			2	1	1		
Butter			19	15	3	1	
Milk			122	109	5	8	
Beer			6	6			
Sweet Nitre			3			3	
Paregoric			1			1	
Coffee			1	1			
To	otals		154	132	9	13	

The percentage of the adulteration was 8.44, against 9.09 during the previous year.

Borough Fever Hospital.

On January 1st, 1905, there remained in the Hospital 67 patients, and there were admitted during the year a total of 354 cases.

The following table shows the number admitted to the hospital, the diseases from which they suffered, the number of deaths which occurred, and the case mortality per cent.

Disease.	Number Admitted.	Deaths.	Case Mortality per cent.
Scarlet Fever Diphtheria Typhoid Fever Smallpox	 246 22 29 57	6 6 6	2·4 27·2 20·6
Total	 354	18	

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 Fever.	Typhoid Fever.	Scarlet Fever.	Diphtheria.	Others.	Total.
1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905	16 13 2 1 15 3 3 5 4 188 340 15	1	3 2 1 1	17 24 26 29 16 18 18 25 54 35 47 17 4 15 39 56 32 28 38 44 18 30 24 22 29	34 15 8 23 23 24 54 28 33 39 47 15 1 39 25 30 237 341 515 250 597 365 219 349 246	12 7 17 25 22	2 5 5 2 4 3 1 7 7 6 1 1 7 20 3 43 4 6	69 60 43 45 59 48 76 66 91 81 101 222 345 70 71 106 272 369 553 306 633 403 404 486 354

The adminstration of the hospital has been quite satisfactory under the managment of the Matron, Miss Robison; while the nurses as usual, have been unremitting in their care of the patients.



County Borough of Halifar.

THE

Sanitary Inspector's Report

FOR THE

Year ended 31st December, 1905.

To the Chairman and Members of the Health Committee.

GENTLEMEN,

I have the pleasure to submit for your consideration my Thirty-first Annual Report on the operations of the Health Department for the year ended December 31st, 1905.

Town Hall, Halifax, May, 1906.

HEALTH DEPARTMENT.

Summary of Work done.

		1
Total number of Visits made by the Distr Inspectors	ict	25284
Total number of Visits to Houses		12822
Furnished Rooms Lodging Houses a		1605
Number of Visits to Houses with reference Defective Drainage		3411
Number of Visits to Houses with reference Cleanliness, Overcrowding, &c		924
Number of Visits to Houses with reference to fectious Diseases		2336
Rooms Disinfected		1190
Cases removed to the Hospital		354
Infectious Diseases reported		584
Nuisances reported		2434
Nuisances abated		2453
Notices served		1162
Letters served (referring to Nuisances, &c.)		256
Summonses taken out		5
Smoke Observations taken		684
Old Ashpits altered to Goux System		29
Goux Closets registered		234

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.

At the commencement of the year 365 complaints remained on the books and in course of removal, since then 2434 have been registered and 2453 removed, leaving at the close of the year 346 to be dealt with. The following table shows the nature of nuisances registered.

	Nature o	of Nuisances.		Number Registered.
Defecti	ve Sink Drains			 90
,,	" Pipes		* * *	 64
,,	" Syphon T	raps		48
,,	Basement Drain	ıs		 79
. ,,	Yard Drains			 65
,,	Urinal Drains			 8
,,	W.C. Drains			 16
,,	Area Drains			 8
"	Private Street I	Orains		 10
Made-u	p Sink Pipes			16
"	Bath Pipes			 1
,,	Lavatory Pipes			 4
,,	Basement Drain	s		 136
,,	Water Closets			 22
,,	Yard Drains			 57
,,	Urinal Drains			 7
,,	Gullies			 53
,,	Private Street I	Prains		 7
Untrapp	oed Basement Dra	inŝ		 16
12	Sink Drains			 72

NUISANCES—Continued.

Nature of Nuisances.	+	Number Registered.
Untrapped Area Drains		 5
" Yard Drains …		 31
" Urinal Drains		 6
,, Bath Pipes		 11
" Lavatory Pipes		 3
Drains not efficiently Trapped:		
Sink Drains		 ~7
Cellar Drains		 6
Yard Drains		 6
Urinal Drains		 4
Area Drains		 3
Sink Drains requiring Disconnecting		 110
Defective Fall-pipe Drains		 10
,, Fall-pipes		 50
,, Spouting		 82
" Roofing		 49
Broken Pot and Iron Traps		13
Insufficient Supply of Water to Clos	ets	 5
Nuisances from Water in Cellar		 23
,, Want of Drains		 67
" Smoke …		 9
" Poultry …		 7

NUISANCES - Continued.

Nature of Nuisances.	 Number Registered.
Nuisances from Pigeons	 2
" Rabbits	 1
" Swine	 4
Houses Overcrowded	 22
" requiring limewashing	 . 92
Accumulations of Offensive Matter	 . 86
Privies requiring Limewashing	 184
Insufficient Privy Accommodation	 39
Offensive Ashpits and Privies	 28
" Goux Closets	 . 78
,, Ash Tubs	 124
Doors off Closets	 61
,, Ashes Tub Places	 . 42
Dilapidated Closets	 . 87
Ashpits requiring Re-construction	 . 18
Miscellaneous	 152
COWSHEDS.	
Defective Drains	 27
Want of Light, Room, Air Space, and	
Diladilated Combala and Flagor	14
Cesspools requiring Emptying and Defe	13
Offensive Middensteads *	13
Comphede manising Linconships	8
1 8 8	

NUISANCES—Continued.

Nature of Nuisances.					
FACTORIES AND WOL	RKSHOPS.				
Rooms requiring Limewashing		9			
Insufficient Privy Accommodation	•••	3			
Want of Ventilation		3			
Defective Drains		5			
BAKEHOUSES	5.				
Want of Ventilation		2			
Rooms requiring Limewashing		3			
TOTAL	•	2434			

The above list does not include work carried out after mere verbal notice.

Night Scavenging.

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

Month.		Number of Ashpits Emptied.	Loads of Soil.	Loads of Rubbish.	Total Number of Loads.
January		396	128	133	261
February		503	167	158	325
March		395	122	138	260
April		308	116	55	171
May		454	135	143	278
June		440	144	149	293
July		566	136	113	249
August		363	161	69	230
September		432	133	98	231
October		560	136	116	252
November		379	139	129	268
December	**	177	69	47	116
TOTAL		4973	1586	1348	2934

The total number of ashpits cleansed during the year is 4973, as against 4825 in the previous year. 45 ashpits with privies have been altered to the Goux system, and ashes tubs supplied in the place of 7 dry ashpits. The above includes Ovenden, Illingworth, Copley, Warley, and Northowram Wards.

TABLE SHOWING THE NUMBER OF ASHPITS WITHIN THE BOROUGH, DECEMBER 31st, 1905.

District.	Wards.	Ashpits with Privies.	Dry Ashpits,	Total.
1	Akroydon and North	 44	47	91
2	Ovenden and Illingworth	 286	28	314
3	Central and East	 34	91	125
4	West and South	 12	194	206
5	Skircoat and Southowram	 31	32	63
6	Pellon and Kingston	 6	35	41
7	Copley	 101	35	136
8	Warley	 238	22	260
9	Northowram	 169		169
	Total	 921	484	1405

Goux Scavenging.

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

Mon	th.	Number of Closet Tubs Collected.	Loads of Ashes Collected.
January		 55448	1918
February		 50831	1638
March		 57868	1896
April		 50108	1636
May		 55755	1866
June		 56251	1594
July		 54780	1398
August		 57073	1479
September		 54746	1405
October		 55960	1719
November		 55645	1831
December		 54233	1837
Тота	L	 658698	20217

The above represents 31,366 loads of night soil (each load containing 21 closet tubs) as against 31,319, and 20,147 loads of ashes respectively for the preceding year.

The number of additional closets registered is 234, being a decrease of 30 on the number registered during the year 1904.

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			2885519	1639	879
Central			1024492	582	172
South			1173606	666	1446
West			746857	424	617
North			598438	340	38
Akroydon			334126	189	1486
Southowram			644852	366	692
Skircoat			218788	124	548
Kingston			132673	75	673
Pellon			291212	165	812
Ovenden & Il Part swept by H		>	981348	557	1028
Total	•••		9031911	5131	1351

Streets Scavenging.

The subjoined table gives at a glance the work done in this department during 1905.

Number of Streets swept	36181
Lineal yards swept	9031911
Square yards swept	71947278
Number of Streets watered	4947
Loads of Water used for that purpose	5733
Loads of Sweepings gathered	6117
Loads of Snow removed from the Streets	691
Number of Gullies emptied	217382
Garbage removed from Market Hall	1019

During the year 340 loads of garbage have been removed from fishmongers, fried fish shops, and greengrocers.

The work done in this department varies according to the condition of the weather. The Winter having been mild, and practically free from snow and frost, the increase in the number of miles swept is 249 miles more than in the previous year. The paving of public roads has not during the last few years added very materially to our work in this department.

In the middle of the Summer, your Committee gave instructions to suspend street watering in consequence of shortness of water, with the result that only 5733 loads were put on the streets, against 10836 in the previous year.

Birks Hall Tips.

Table showing the number of loads of Ashes and Rubbish tipped during the year.

Name.	Number of Loads.		
Goux Department			18464
Gas Works			240
Highways Committee			560
Private Firms	***		5040
Waterworks			80
Total			24384

It will be seen from the above table that 24384 loads of rubbish have been tipped at Birks Hall, 5040 by private firms. As this is the only tip we have for Halifax and Ovenden, it becomes a matter for consideration as to the desirability of closing it against private individuals, seeing that a Destructor is still looming in the distance, and the extent of our tipping capacity at Birks Hall will only last about four years.

ANALYSIS OF REFUSE COLLECTED IN THE BOROUGH OF HALIFAX DURING THE YEAR 1905.

From Wet and Dry Ashpits	No. of Loads. 2934
From Ashes Tubs	20217
From Goux Closet Tubs	31366
Sweepings gathered from the Streets, and Refuse from Gullies	6117
Garbage removed from Market Hall	1019
Horse Droppings from Streets	260
Garbage from Fried Fish Shops	340
Total Number of Loads	62253

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 min'tesofdense smoke emitted.
Number of Observations taken Number showing moderate Smoke or nil	684	
Number of Observations taken for a period of 60 minutes, each showing Dense Smoke	358	
Number of Observations show- ing Dense Smoke above the Maximum adopted by the Committee	9	
Average number of minutes of Dense Smoke emitted from Chimneys		2.09

The number of observations taken during the year is 684. Nine 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 2.09.

TABLE SHOWING NUMBER OF VISITS MADE BY THE MEAT INSPECTOR.

Descripion of Premises	3.	Number of Visits.
Public Slaughterhouses		933
Private Slaughterhouses		215
Borough Market		599
Wholesale Market		390
Fasting Sheds		341
Potted Meat Houses		334
Tripe Boiling Houses		114
Butchers' Shops		4432
Fried Fish Shops		136
Cowsheds		529
Dairies and Milkshops		159
Bakehouses		398
Other Visits		998
Total		9578

TABLE SHOWING MEAT, FISH, FRUIT, ETC., DESTROYED AS UNFIT FOR HUMAN FOOD.

Kinds of Food	d Destroyed	l.		Quantity in lbs.
$14\frac{1}{2}$ Carcases of Beef				5620
Beef not in Carcase				973
$21\frac{1}{2}$ Carcases of Pigs				2541
Pork not in Carcase		***		1157
8 Carcases of Mutton				556
22 Carcases of Veal				1600
8 Rabbits				12
3 Turkeys				22
Fish				4831
Fruit				2000
Offals				4967
Total			-	24279

From the above table it will be seen that 24,279 lbs. of Meat, Fish, Fruit, &c., were destroyed as unfit for food, which is 11,599 lbs. less than in the previous year. The decrease is chiefly in the following, viz.—Carcases of Beef, 5620 lbs., against 8500 lbs. in 1904; Beef not in carcase, 973 lbs., against 2497 lbs.; Carcases of Pigs, 2541 lbs., against 10,130 lbs. The chief increase of any article destroyed over the previous year was in Fruit, which was 2000 lbs., against 650 lbs.

Canal Boats.

The inspections are made periodically by the Chief Sanitary Inspector.

The number of Boats inspected during the year 1905 was 52. Of this number 51 were found to conform with the Acts.

Infringement of the Acts and Regulations was found in one case only, that of painting.

In all cases where females and children were on board, proper provision was made for the separation of the sexes. Of the 52 boats inspected there were three with women and children on board, and six with women only. The children in all cases having been brought for the single journey only.

All boats were free from bilge water, ventilation was fairly good, and good provision was made for the storage of water. The boats generally were clean and in good condition. There has not been a single case of sickness or overcrowding on board.

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	Number	Total.
of Boats	Registered	of Males	of Females	
Inspected.	to carry.	on board.	on board.	
52	338	104	9	113

Ages of Children found on Canal Boats.

	Under			- 1	Years				
	Year.	1	2	3	4	5	6	7	Total.
Number	1	1	1	2	1	2	1	1	10

D & DRUGS ACT.	f	Kemarks.	Case withdrawn, Defendant paying costs.		Adjourned to Feb. 14th			Or 2 months imprison- ment
300			-9 °9	9		9	9	9
\$ I		Total.	w oc	0 15		00	10	1-
TO			# O	0		10	61	10 7
I A(Court		ф. 9	9		9	9	9 2 0
T.	n of	Costs.	∞ ∞ ∞	5	. :	00	10	-1
EAI	Decision of Court.		40	0		0	0	0
H	-		d.	0		0	0	0
1 23		Penalties.	. s.	0 10 0	;	0	0	0 0
(IB)		Pen	ભ	0		52	22	10
TABLE SHOWING PROSECUTIONS UNDER THE PUBLIC HEALTH ACT & FOOD & DRUGS ACT.	Nature of Officers	ANALUS OF ORGEROS.	Slaughtering on Unlicensed Premises at Great Scaus- by Farm, Bradshaw	Exposing for sale Diseased Meat	Exposing for sale Diseased Meat, at Holmfield	Exposing for sale Unsound Meat at Holmfield	Selling Milk adulterated with 6% of added Water	Selling Milk adulterated with 7% of added Water
SHOWING PROSEC	Defendant's Name	TOTAL CANCELLAND OF A CANCELLAND	Walter Pearson	Frank Ambler	Herbert Rushworth	. Herbert Rushworth	Dec. 12th Isaac Shepherd	Daniel Greenwood
E S		_			:	:	:	:
BL	Date		1905 . 10th	31st		14tl	12tb	
TA	ė.		1905 · Jan. 10th	Jan. 31st	do.	Feb. 14th	Dec. 1	do.

Infectious Diseases Removed to Hospitals.

During the year 57 cases of Smallpox have been removed to Belle Vue Hospital. Twenty-nine cases of Typhoid, 246 cases of Scarlet Fever, and 22 cases of Diphtheria have been removed to the Borough Fever Hospital, Stoney Royd.

Disinfection.

1190 rooms have been fumigated where fever cases existed. 9472 articles have been disinfected at the Disinfecting House, Stoney Royd.

From the records here presented, it will be seen that a vast amount of work has been accomplished during the year, which cannot fail to have a beneficial effect upon the health of the inhabitants of this Borough.

Change of Staff.

Mr. J. T. Millington was appointed Meat Inspector, July 26th, 1905.

I again take the opportunity to tender my thanks to the District Inspectors, and the Chief Clerk (Mr. J. W. Jackson), for the valuable assistance rendered to me during the year.

I am, Gentlemen,

Your obedient Servant,

Chief Sanitary Inspector and Scavenging Superintendent.

APPENDIX.

VITAL STATISTICS OF THE BOROUGH OF HALIFAX DURING 1905 AND PREVIOUS YEARS.

		BIRTHS.	ms.	TOTAL DE	TOTAL DRATHS REGISTERED in the DISTRICT	ERED in the	е District	market.	Deaths of	Deaths of	NETT DEATHS AT	THS AT ALL
	Population			Under 1 y	Under 1 year of age.	At all ages.	ages.	Deaths	Non- residents	Residents	AGES BEL THE D	AGES BELONGING TO THE DISTRICT.
YEAR.	estimated to Middle of each Year.	Number.	Rate,*	Number.	Rate per 1,000 Births Registered	Number.	Bate.*	Public Institutions in the District.	registered in Public Institutions in the District.	in Public Institutions beyond the District.	Number.	Rate.*
1	2	co	4	9	9	7	8	6	10	11	12	13
1895	92,875	2186	23.5	354	161.4	1826	19.6	195	23	:	1803	19.4
1896	93,581	2329	24.8	351	150.7	1694	18.1	197	27	21	1688	18.0
1897	94,311	2147	22.7	301	140.2	1603	16.9	220	33	28	1598	16.9
1898	95,037	2205	23.2	369	167.3	1751	18.4	235	28	28	1751	18.4
1899	95,767	2239	23.3	363	162.1	1806	18.8	258	34	30	1802	18.8
1900	98,910	2316	23.4	314	135.5	1874	18.9	277	42	19	1851	18.7
1901	105,120	2351	22.3	301	128.2	1726	16.4	294	38	21	1709	16.2
1902	105,950	2225	21.0	324	145.6	1645	15.5	282	36	25	1634	15.4
1903	106,800	2248	21.0	279	124.1	1610	15.0	308	54	36	1592	14.9
1904	107,000	2154	20 1	282	130.9	1662	15.5	303	52	33	1643	15.3
Averages for years 1895-1904	99,535	2240	22.5	323	144.6	1719	17.3	256	36	24	1707	17.2
1905	107,500	2072	19.2	271	130.7	1651	15.3	319	75	42	1618	15.0
										-		

* Rates in Columns 4, 8, and 13 calculated per 1,000 of estimated 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.

		CASES	NOTIFI	ED IN W	HOLE !	DISTRIC	T.				100	TAL C	ASES	NOTH	FIED 1	IN EA	CH L	CALI	TY.					3	CUMBI	ER OF	CASI	ES RE	MOVE	D TO	HOSP	TAL	FROM	EACI	H LOC	ALIT	(-	
NOTIFIABLE DISEASES.				At Age	-Years							.(4			alm 4)				4		TATE:		120				(%			17				4		Traffi		
	At all Ages.	Under 1.	1 to 6.	5 to 15.	16 to 25.	25 to 66.	65 and upwards.	Orenten Ward	Akroydor Ward.	North Ward.	Central Ward.	West ()	South Ward.	East Ward.	Southern Ward (s	Skircoat	Pellon Ward.	Kingsten Ward.	Ward.	Capley Ward.	Northern	Warley Ward.	Ovenden Ward,	Akroydo	North Ward,	Central Ward.	West ()	South Ward,	East Ward.	Southow Ward (Shiresat Ward.	Pellon Ward	Kingstor	Illingwo Ward.	Copley Ward.	Northon Ward.	Warley	Out of
Small-pox	. 49		1	17	10	21		2			9	15	1	7		3	7	2	2			1	2			9	15	1	7		3	7	2	2			1	Ĺ
Cholera																																						
Diphtheria	. 87	1	26	45	5	10		12	1	2	3	7	6	2	9	13	7	9	7	6	3		5	1	1		2	2	1		2	1	2	2	1	1		
Membranous Croup																																						
Erysipelas	. 54		3	7	10	32	2	8	2	3	1	1	2	1	9	7	6	1	7	1	4	1											114		***	10		
Scarlet Fever	338	4	74	218	30	12		72	14	20	15	10	18	10	17	11	25	22	24	15	61	4	49	12	15	14	8	15	5	15	5	17	8	13	10	47	4	
Гурhus Fever																																						
Enteric Fever	50		2	8	11	29			3		5	3	1	3	6	8	4	4	6	1	3	3		2		5	2		3	4	2	2	1	1	1	1	1	
Relapsing Fever																																						
Continued Fever																										4												
Puerperal Fever	6				4	2								1	3		1			1																		
Plague																																						
Removed for Isolation																															5,53							
Totals	584	5	106	295	70	106	2	94	20	25	33	36	28	24	44	42	50	38	46	24	71	9	56	15	16	28	27	18	16	19	12	27	13	18	12	49	6	2

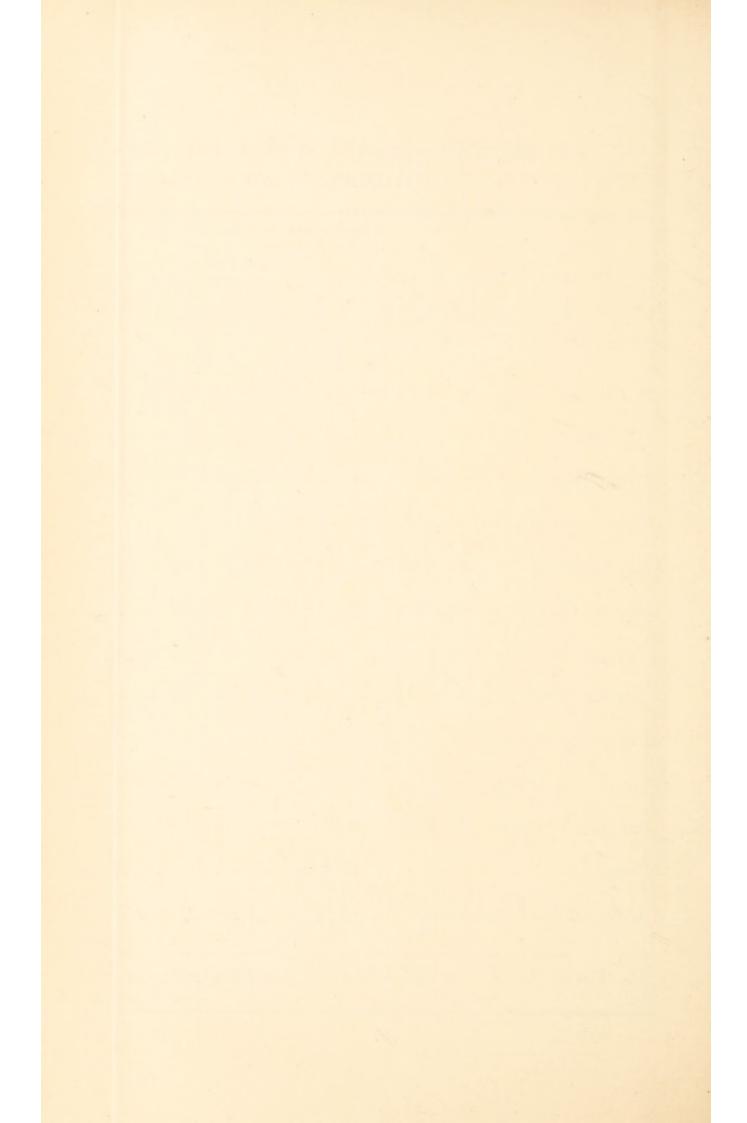


TABLE SHOWING CAUSES OF, AND AGES AT, DEATH DURING THE YEAR, 1905 IN THE SEVERAL LOCALITIES OF THE BOROUGH.

		D	EATHS IN	on Bur	SNGING T	o Wnor	s. Distr	ют.					DEAT	HS IN OR	BELON	ING TO	LOCALITIE	S (AT A	ALL AUES					Total
CAUSES OF DEATH.			1 2		BIOLNED	Aors.	12	110	8.,	dom.		24	-	4	-	OWTHER A.	191	44		ton.	worth d.	ownan	2	Deaths in Public Institutions in the District.
		At all Ages.	Under	1 20 6.	5 to 15.	200	25 to 66.	65 and upwards	Ovendo Ward.	Aknoyda Ward.	North	Central Ward.	West	South	East Ward.	Southor Ward.	Skircoat Ward.	Copier	Pellon Ward	Kingsto Ward.	Thingram Ward.	Northo	Warley	District.
Small-pox Measles Scarlet Fever	::	. 1	1		2	2										1						2		1 6
Whooping Cough Diphtheria and Membranous Crou	 p	. 32	15	16 13	1 10		3		7 4	1 1	5	1	3 4	2	3	2 6	1 3	1	2	3	2	2 1		1 9
Enteric Fever Epidemic Influenza Diarrhea		. 18		 1 3		1	7 9	8	5	1		1	1	1 1 2	2	1 1 3		1		3	5	1	1	9
Enteritis Puerperal Fever		. 12	8			2	2 2	2	2		1	1	4		1	1 1	1	1	3					2
Erysipelas Other Septic Diseases Phthisis		. 2	1		 3	23	102	1 6	 12	1 4	11			6	18	10	12	1 5	8	12	11	1 4	1 5	1 28
Other Tubercular Diseases Cancer, Malignant Disease		. 58	13	15	9	1	15 75	5 30	11 9	7 6	6 11	5 5	4 13	4 8	4 7	1 6	3 10	1 2	5 5	3 9	8	2	5	12 27
Bronchitis Pneumonia Pleurisy		. 153 . 130	34	32	8	4	40 31 2	87 21	6 9 1	15 6 1	12	21 15	11 15 1	9	10	6	12 14	6 4	14	9	10	5 3	7 2	13 27 1
Other Diseases of Respiratory Org Alcoholism, Cirrhosis of Liver		. 13	1		2		8	2 2	1		2	1	2 2	1	3	1	1		1	1	2 2	2	2	1 2
Venereal Diseases Premature Birth Diseases and Accidents of Parturi	··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··	. 62				3	10		2	7	10 3	8	2	1 1	4 3	7 2	2		9	5 2	2	2	1	1 3
Heart Diseases Accidents Suicides	::	. 28	7	1 2	3	6	106	55 8	13 2 2	14	19 6 2	13 4	15	11 3 2	17 3	13	17 2 2	1	11 2 2	12	12	4	4	33 19
Diseases—Brain and Nervous Sys ,, Digestive System	em	. 176	3	3 6	6	10 5	12 92 20	62 12	14 7	12 2	16 4	18 5	11 5	15 3	7 5	10 2	13 4	7	14	13 2	19 3	3 2	4 2	26 15
,, Urinary System Convulsions Old Age		. 35	29	 5	3		39	17	6 1 3	3 2 12	3 4 9	6 3 5	2 2 13	4 1 12	7 15	3 6 4	10 5 11	1 4 3	7	1 6	3 4	3 1 2	1 3	12
Congenital Malformation All other Causes		. 13	8	2 14	3 3	13	46	17	5	4 15	11	1 8	11	1 10	12	15	2 9	3	2 4	2 10	1 7	10	6	37
All Causes		.1618	271	127	58	71	645	446	124	117	148	135	131	105	136	109	136	44	113	108	113	53	46	319



VITAL STATISTICS OF THE BOROUGH OF HALIFAX DURING 1905 AND PREVIOUS YEARS.

SAMIN OF LOCALITIES	WHOLE TOURIST	STREET WARD	ARRITOGO WARE.	STREET WARD	CENTRAL WARD	WEST WALD.	HOTTE WARD.	EAST WARE	SOTTOWAN WARD	REDUCAT WARD.	PELLON WARD.	KINHOUS WARD	HARIOWOODS WARD	COULTY WALD	PERSONNAN WARD.	WARLEY WAS
TEAL	Management of the control of the con	Population only and to taking of each rate linear rate registered at all days area I year.	Proprietors of a control of the cont	Properties and monthly market of real years. Bartis represent. Produc- ries and Asper- galles and Asper- parent and Aspe	Papertina of the second		Property of the Property of th	Distriction of the state of the	Propose continue and a second continue and a	Personal control of the control of t	Paperbous outside and the state of the state	Population col- ment for maide of cost proc. Resist Proches as all days Findle	Proposes of the party of the pa	Property of the state of the st	Process of the Party of the Par	Propintor original forms of the same of th
1895		6840 193 109 26	6853182129-32	7716182134 35	8837 202 167 37	9576177147 25	8510 172 177 22	8540121142 29	7349 211 133 36	7774185 95 23	7643195143 37	7069 186 99 23	7106 153 123 23			
1896		6925 175, 90-21	6927 174 100 26	7830/235/126/42	8875 210 168 47	9629201148 18	8570 193 143 22	8590164119-25	7470 228 110 38	7821174127 31	2760:215:110:29	7140 191 115 29	7227 145 114 14			
1897		6925 180 98 25	6926206105-33	7829/212/122 37	8875 196 141 26	9628175122 22	8569 140 131 19	8586130118 23	7468 206 121 32	7819163 94 19	7758194 94 24	8138 187 92 20	7226141112 16			
1898		7040172 97 29	7050201103 29	7929/215/131/36	8950 237 163 46	9678174130 30	8610 130 127 24	8586136140 20	7558 240 155 56	7926177122 27	7878179109 28	8278 184 99 18	7246143112 19			
1899		7020178103 26	7050 202 131 33	8129/214/140/40	8950 196152 38	9678 191 138 26	8700 160 142 20	8600 125 126 22	7558 226 127 47	8016/17/127 26	8078/203114/30	8564 188 92 30	7266 163 122 12	Newly added area.	Newly added area.	Newly added area
1900		7146174 97 24	7152174 94 19	8129/232129/33	8930 206 159 37	9690200162-39	8712 148133 15	8620 131 127 21	7598 236 110 27	8206 167 102 14	8170/207/142/26	8964 225 153 25	7280 150 114 26	2570 57 33 4		
1901		2045 155 113 16	6540 187 104 28	8165/238 167 29	7833 171 146 35	9282173133 17	7600 139 111 14	7001106172 27	7465 202 134 30	8850187117 24	9138217149 26	10166218116 23	7035 150 108 14	2905 69 37 4	3265 78 58 9 3	2830 60 44
1902 .	10595022251634 32	1 7174 149 107 23	6560185 77 26	8250208166-45	7835 161 134 34	9282195170-23	7613 117 111 16	7008109155.24	7485 217 127 39	9080163124 18	9225 185 111 21	10310181118 25	7105144100 14	2908 41 30 4	3270 95 66 8	2845-52-38
1903	106800/2248 1592 27	9 7250 159 114 21	6560 171 100 21	8295/229 [34] 29	7835187139-23	9282155130-21	7670 132 106 18	7008112134 24	7515 176 121 34	9420211146 19	934019312214	10400197122 25	7170:157 91 16	2935 39 31 2	3270 70 47 5 3	2850 60 55
1994 .	. 10700021511643 28	2 7270 156 106 14	6560166122 27	8310 191 155 31	7835 165 128 24	0285 165 136 21	7690 119 116 14	7010105151 24	7525 189 99 24	9505212153-13	9350174122.22	10415 177 115 27	7180139114 22	2945 43 35 2	3270 95 55 13 3	2850 58 36
Averages of Years 1895 to 1901	10658322091623 20	5 7065 169 103 22	6818185106 27	8058/215/140/36	8477 193 159 35	9501 181 142 24	8224 145 130 18	7955121138 23	7409 213 124 36	8448 182 121 21	8434196122 26	8944193112 24	7184148111-18	2852 50 33 3	3268 84 56 8 3	2843 57 45
1905	. 107500/2072/1618 27	1 7280 128 124 17	6630179117 30	8345 177 148 35	7835 159 135 28	9285 136 131 19	7690 101 105 12	7010103136 15	7530 175 109 26	9690/206 136 17	9420177113 23	10460181108 13	7210129113 11	2970 64 44 6	3285 90 53 14 2	2860 64 46



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