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County Borough of Halifax. Health Department.

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OF THE

MEDICAL OFFICER OF HEALTH,

Together with the Report of
THE SANITARY INSPECTOR
for the
Year ended December 31st, 1907.

Printed by Order of the Health

Committee.

HALIFAX:

Messes EDWARD MORTIMER, PRINTERS, REGENT STREET
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Ibealth Committee.

mayor.

ALDERMAN W. WALLACE, J.P.

COUNCILLOR T. S. DODD, Chairman.

COUNCILLOR L. GELDER, Vice-Chairman.

Alderman J. F. COE, J.P. Alderman R. MORLEY.

J. W. CROSSLAND, J.P. " J. WHITAKER, J.P.

Councillor W. H. BANCROFT. Councillor W. H. INGHAM.

J. BROOKS.

" T. G. LE DIEU.

J. T. DALTON.

" A. NORTH.

D. HANSON.

" E. PINDER.

Councillor A. TAYLOR, J.P.

Sub=Committees

Appointed by the Health Committee.

Fospital Sub-Committee.

VICE-CHAIRMAN. ALDERMAN WHITAKER.
COUNCILLOR HANSON.
ALDERMAN COE.

COUNCILLOR TAYLOR. Cleansing Sub-Committee.

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ALDERMAN MORLEY. Councillor BROOKS.

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COUNCILLOR INGHAM.

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COUNCILLOR INGHAM.

Special Sub-Committee.

THE CHAIRMAN. VICE-CHAIRMAN. COUNCILLOR BANCROFT.

,, HANSON.

ALDERMAN COE. .. WHITAKER.

PINDER. ,, TAYLOR.

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 Bealth. J. F. HODGSON, M.D., D.P.H., &c.

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

Chief Sanitary Inspector and Scavenging Superintendent. DAVID TRAVIS.

> meat Inspector. J. T. MILLINGTON.

District Sanitary Inspectors.

JAMES ARCHBELL. J. WOOD. J. E. FIRTH. R. PICKARD. F. TEAL.

> Assistant Scavenging Superintendent. R. TRAVIS.

> > Chief Clerk. J. W. JACKSON.

Assistant Clerks.

CHARLES CARLTON. ERNEST JUBB.

Matron of the Borough Fospital. MISS ROBISON.

> Disinfector. T. W. BOOTH.

Laundry Engineer. W. GUEST.

Porter.

H. VICKERMAN.

Gour Department.

Goux Inspectors.

J. HEATH. S. MAUDSLEY.

Clerk. HARRY ASKE.

COUNTY BOROUGH OF HALIFAX

REPORT

OF THE

MEDICAL OFFICER OF HEALTH,

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

For the Year 1907.

INTRODUCTION.

To the Chairman and Members of the Health Committee.

GENTLEMEN,

I have the honour of submitting to you my Eighth Annual Report, which is the Thirty-fifth Annual Report of the Medical Officer of Health of the Borough of Halifax.

This Report is made in accordance with the requirements of the Local Government Board, and is for the year ended December 31st, 1907.

As has been the case for a number of years past, I have again to record a fall in the birthrate. While that is so, however, it is satisfactory to note that the general deathrate, the zymotic deathrate, the respiratory deathrate, and the infantile mortality for the year under review have all fallen, and are all the lowest on record for the Borough.

The deathrate of Infants is especially satisfactory, being at the rate of only 102 per 1000 born. I think this is an indication that parents generally are doing their best to carry out their responsibilities to the newly born.

There have been several changes in the personnel of the staff during the year. It was decided to appoint a Lady Health Visitor, and Miss Watson Wayne was eventually selected for the position. She commenced her duties early in the current year. Another change resulted from the unfortunate illness of Inspector Archbell, an old and valued servant of the Committee. I can testify to the keen interest he always took in his work, and to the conscientious manner in which he always carried it out. His place will be difficult to fill. Inspector J. G. Walshaw has been appointed to his district.

Inspector Wood resigned his position on securing a more lucrative post, and Inspector Teal was appointed in his stead.

I desire to acknowledge the assistance rendered me during the year by Mr. Travis, the District Sanitary Inspectors, and Messrs. Jackson and Carlton, and also to thank your Committee for its continued support.

> I am, Gentlemen,

> > Your obedient servant,

Jas. J. Heech M. D. D.P. H.

MEDICAL OFFICER OF HEALTH.

TOWN HALL, HALIFAX,

June 8th, 1908.

STATISTICAL SUMMARY.

	1907	1906
	ACRES	
Area of County Borough	13,650	
		£495,000
	£495,642	2499,000
Population, estimated to		
middle of 1907	108,500	108,000
Population, 1901 Census	104,936	
Persons per Acre	7.9	7.9
Average number of Persons		
per Inhabited House, 1901		
0	4.2	
Average number of Persons		
per House, 1901 Census	4.0	
Birth Rate, 1907	17.7	19.1
,, Average for pre-		
,, Average for pre- vious 10 years	21.4	21.8
Death Rate, 1907	15.2	16.1
,, Average for pre-	102	101
,, Average for pre-	10.0	16.4
vious 10 years	16.2	16.4
,, Corrected for	4.4.0	
Institutions		15.2
Death Rate for seven principal		
Zymotic Diseases	.63	1.3
Death Rate, the mean for pre-		
vious 10 years of Zymotic		
		1.2
Diseases		12
Deaths of Infants under 1 year		110
per 1000 Births		116
Illegitimate Births	84	99
Average Age at Death, 1907—		
Males	41.4 years	39.0 years
Males Average Age at Death, 1907—		
Females	47.8 years	44.9 years
Latitude—North	530 /13/	II o jours
Females Latitude—North Longitude—West	19 59/	***
Height above Con I and for	1 02	
Height above Sea Level, feet		99.04
Total Rainfall, inches	34	33.84

Area and Population of the Borough.

The Registrar General estimates the population of the Borough for the year under notice at 110,138. This figure is, in my opinion, much too high. I estimated the population in the middle of 1907 at 108,50°, and I have reasons for believing that even that estimate is too high.

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

WARDS.	Population Estimated to Middle of 1907.	Acreage.	Persons per Acre.	No. of Houses Built during 1907.
Akroydon North Central West South East Southowram Skircoat Copley Pellon Kingston Illingworth Northowram	7325 6705 8375 7835 9285 7780 7010 7550 10015 3060 9580 10565 7255 3295 2865	531 582 168 82 86 296 191 777 513 532 241 238 4504 1555 3354	13·7 11·5 49·8 95·5 107·9 26·2 36·7 9·7 19·5 5·7 39·7 44·3 1·6 2·1 0·8	6 1 0 0 0 30 0 6 53 26 20 22 9 1
Totals .	108500	13650	***	176
Average .			7:9	

I believe the population of the Borough has diminished rather than increased during the past two or three years, owing to migration of residents to Lancashire and other places.

Marriages.

There were 1,074 marriages solemnized during the year 1907, within the Borough, and this gives a marriage rate of 9.9 per 1000, against 9.5 during the previous year, or a rise of 4 per 1000, and it is the highest recorded since the year 1901 when the rate was 10.5 per 1000.

In the year 1897, which is the first year of which we have any records in the Health Office, the marriage rate of Halifax was 15.9 per 1000, almost equal to that of England and Wales. Since then it has seriously and continuously fallen to its present low level, and it is hoped the improvement in the year under notice will be continued in the years to come.

The following table shows where the marriages took place.

In	Churches of the Church of England		622
In	Nonconformist places of worship, and the Register Office	l at	452
	Total		1074

The following table compares the marriage rate of Halifax with that of England and Wales, during the past eight years.

VEAD	MARRIAGE RATE.				
YEAR.	Halifax.	England & Wales.			
1900	11.2	16.0			
1901	10.5	15.9			
1902	9.8	15.9			
1903	9.5	15.8			
1904	9.7	15.2			
1905	9.7	15 2			
1906	9.5	15.6			
1907	9.9				

Births.

During 1907 there were 1,927 births registered, which is 143 less than the number registered during the previous year, hence the birthrate for the year was 17:7 per 1000 against 19:1 for the previous year. It is therefore necessary for me to again repeat the sentence which, I believe, has been used in each Annual Report I have had the honour of preparing, and say that "this birthrate is the lowest yet recorded in the Borough." It is hoped, however, that the slight increase in the marriage rate previously referred to, will have at any rate some little influence in preventing a further fall in what is now a very low birthrate.

Of the births registered, 978 were males, and 949 were females.

The excess of births over deaths for the year was 369, against 396 for the year 1906.

The birthrate of the Country generally has fallen considerably when compared with 30 years ago, but that fall has not been so rapid as has been the case with the Borough of Halifax, as the following table will show.

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
1905-7	26.3	18.6 — 8.2

It should be noted, however, that the marriage rate of England and Wales is considerably above that of Halifax, and that the birthrate of Halifax in proportion to the marriage rate, is quite equal to that of the Country generally.

The following table shows the number of illegitimate births registered in the Borough during the past 17 years, together with the rate per cent. which these births bear to the total number of births.

Year.	Number of Illegitimate Births.	Rate per cent, to whole number of Births.			
		Average.			
1891	51	2.3			
1892	78	3.5			
1893	73	3.2			
1894	73	2.4			
1895	51	$\frac{3.4}{2.3}$ 2.7			
1896	65	2.7			
1897	44	2.0			
1898	58	2.6			
1000	90	2.0			
1899	58	2.5			
1900	75	3.2			
1901	101	4.2			
1902	89	4.0 4.1			
1903	102	4.9)			
1904	113	5.2			
1905	97	4.6			
1906	99	4.7			
1907	84	4.3			

The mean birthrate of the 76 great towns of England and Wales for the year 1907 was 27 per 1000, compared with 27.9 for the previous year, and only three of these towns have a lower birthrate than Halifax, viz:— Hornsey 17; Hastings 16.6; and Bournemouth 17.6

The birthrate for England and Wales for 1907 was 26.3 per 1000, against 27 for the previous year, or a fall of 8 per 1000.

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

TABLE SHOWING BIRTHS AND BIRTHRATES
IN EACH QUARTER OF 1907.

Period.		Males, Female		ales,	s, Totals.		Birthrate per 1000 living.		
		1907.	1906.	1907.	1906	1907.	1906.	1907.	1906.
1st Quarter 2nd ,, 3rd ,, 4th ,,		241 269 230 238		250 233	$\frac{261}{255}$	519 463	509 538	17·6 19·1 17·0 17·1	18.8 19.9
Whole Years		978	1042	949	1028	1927	2070	17:7	19.1

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

WADIS	BIRTHRATES.								
WARDS.		1903	1904	1905	1906	1907	Average.		
Ovenden		21.9	21.4	17.5	19.9	20.2	20.1		
Akroydon		26.0	25.3	27.0	23.2	24.0	25.1		
North		27 6	22.9	21.2	25.1	21.1	23.5		
Central		23.8	21.0	20.2	18.1	18.7	20.3		
West		16.6	17.7	14.6	17.9	17:0	16.7		
South		17.2	15.4	13.5	14:3	12.4	14.5		
East		15.9	14.9	14.6	17.5	13.1	15.2		
Southowram		23.4	25.1	23.2	22.4	20.3	22.9		
Skircoat		22.3	22.3	21.2	17.5	18.9	20.4		
Copley		13.2	14.6	21.5	17.7	22.2	17.8		
Pellon		20.6	186	18.7	17:3	16.8	18.4		
Kingston		18.9	16.9	17:3	18:3	15.0	17.2		
Illingworth		*21.9	19.3	17.8	18.1	15.0	18:4		
Northowram		21.4	29.0	27.3	21.5	19.1	23.6		
Warley		21.0	20.3	22:3	20.2	15.0	19.6		

According to information kindly furnished by the caretakers of the cemeteries and burial grounds in the Borough, there were 113 still-born children buried during the year.

The following table shows the number buried in each of the burial grounds during the past two years.

Name of Burial Ground.	Number of Still-born Children Buried therein.		
		1906.	1907.
W D 100 1			
Moor End Chapel	***	1	0
Nursery Lane Wesleyan		0	0
St. George's, Ovenden		1	0
Providence Chapel, Ovenden		1	4
Illingworth Church		3 7	7
Christ Church, Mount Pellon		7	4 7 5 0
Illingworth Wesleyan Chapel		2	0
Mount Zion, Ovenden		0	3
Borough Cemetery		34	31
Wesleyan Chapel, Northowram		0	0
All Saints' Church		6	3
Heywood Cemetery		1	3
Bradshaw Church		0	1
Mount Tabor Burial Ground		Ŏ.	Õ.
King Cross Wesleyan		- 8	12
St. Paul's Church, King Cross		15	11
All Souls' Cemetery		12	16
Warley Church		1	3
Wesleyan Chapel, Luddenden		0	0
Lister Lane Cemetery		10	6
St Thomas' Church		10	8
St. Thomas Church		10	0
Totals		112	113

The number buried during 1901 was 108; 1902, 86; 1903, 118; 1904, 121; and 1905, 113 respectively.

Deaths.

During the year 1907 there were 1,655 deaths registered within the Borough. Of these, 145 did not belong to the district, but there also occurred 48 outside the Borough amongst persons belonging thereto, so that excluding the former, and including the latter, the corrected number of deaths for the year was 1,558.

Of the above 1,558 deaths, 732 were males and 826 were females, and this gives a deathrate for the year of 14·3 per 1000, which is 1·2 below that of the previous year, and is the lowest deathrate for the Borough yet on record.

The deathrate of England and Wales for 1907 was 15 per 1000, and the average for the 76 great towns was 15.4 per 1000, 23 of which had a lower deathrate than Halifax.

Taking the 34 great provincial towns of 100,000 population and above, only four have a lower deathrate than Halifax.

The deathrates of the other Yorkshire great towns were as follows:—Leeds, 15·3; Sheffield, 17·1; Bradford, 14·8; Hull, 16·1; Huddersfield, 16·9; York, 15·1; and Rotherham, 16·1 respectively.

It will be thus seen that the deathrate of Halifax is lower than any of the Yorkshire great towns. For the previous year the City of York occupied that position.

The following table gives the average deathrates for the undermentioned periods, and show that there has been a continuous and gradual fall in the deathrate of the Borough.

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
1906-7	14.9

The following table shows the deathrates of the various Wards into which the Borough is divided.

		-				1/	-		
						Mortality per 1000 living.			
WARDS.	Population.	Acreage.	Persons per Acre.	Total Deaths.	Death- rate per 1000.	Zy- motics.	Phthisis.	Other Respi- ratory Diseases.	
Ovenden	7325	531	13.7	88	12.0	0.2	0.6	2.8	
Akroydon	6705	582	11.5	109	16.2	1.3	0.2	2.8	
North	8375	168	49.8	116	13.8	1.1	0.8	3.7	
Central	7835	82	95.5	140	17.8	0.7	1.7	2.2	
West	9285	86	107.9	134	14.4	0.4	0.7	3.1	
South	7780	296	26.2	116	14.9	0.7	0.8	2.4	
East	7010	191	36.7	152	21.6	0.5	2.7	4.1	
Southowram	7550	777	9.7	114	15.0	0.3	1.0	1.8	
Skircoat	10015	513	19.5	102	10.1	0.0	0.7	2.2	
Copley	3060	532	5.7	51	16.6	0.6	0.9	2.6	
Pellon	9580	241	39.7	117	12.2	0.7	1.0	1.5	
Kingston	10565	238	44.3	131	12.3	0.4	1.1	2.0	
Illingworth	7255	4504	1.6	98	13.5	0.9	1.5	2.2	
Northowram	3295	1555	2.1	45	13.6	0.6	1.2	2.1	
Warley	2865	3354	0.8	45	15.7	0.0	0.3	3.1	
Totals	108500	13650	7.9	1558	14.3	0.6	1:1	2.5	

As deathrates fluctuate from year to year, the following table is compiled for the purpose of showing the general deathrate of each Ward for a period of five years, so as to arrive at an average general deathrate for each Ward.

WARDS.			DEATH	RATES.		
WARDS.	1903	1904	1905	1906	1907	Average
Ovenden	 15:7	14.5	17:0	14.9	12.0	14.8
Akroydon	 15.2	18.5	17.6	14.7	16.2	16.4
North	 16.1	18.6	17:7	17:1	13.8	16.6
Central	 17.7	16 3	17.2	17.6	17.8	17:3
West	 14.0	14.6	14.1	14.5	14.4	14.3
South	 13.8	15.0	13.6	14.0	14.9	14.2
East	 19:1	21.5	19.4	22 6	21.6	20.8
Southowram	 16.1	13.1	14.4	16-9	15.0	15.1
Skircoat	 15 4	16.0	14.0	15.4	10.1	14.1
Copley	 10.5	11.8	14.8	14.0	16.6	13.5
Pellon	 13.0	13.0	11.9	12.0	12.2	.12.4
Kingston	 11.7	11.0	10.3	12.4	12.3	15.5
Illingworth	 12 6	158	15.6	15.6	13.5	14.6
Northowram	 14 3	16.8	16.1	13.6	13.6	14.8
Warley	 19.2	12.6	16:0	19.5	15.7	16.6

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 12 years.

	MAI	ES.			FEMA	LES.	Average Ages. 2·2 9·5			
•	Deaths.	Total Years.	Average Ages.		Deaths.	Total Years.	Average Ages.			
0-1	111	111		0-1	84	84				
1-5	64	141	2.2	1-5	51	113	2.2			
5-15	31	280	9.0	5-15	29	277	9.5			
15-25	34	671	19.7	15-25	43	843	19.6			
25-65	309	15701	50.8	25-65	325	16197	49.8			
65 and upwards		13448	73.4	65 and upwards	294	21987	74.7			
Total 1907.	732	30352	41.4	Total 1907.	826	39501	47.8			
1907	Ave	rage	41.4	1907	Ave	rage	47.8			
1906		,,	39.0	1906	,	,,	44.9			
1905	,	,	38.6	1905		,,	44.1			
1904	,	,	37.5	1904		13	41.2			
1903	,	,	40.0	1903		,,	43.3			
1902		,	36.6	1902		,,	40.2			
1901		,,	36.2	1901		,,	40.1			
1900		,,	38.3	1900		,	41.2			
1899		,,	35.1	1899		,,	38.4			
1898		,,	34.4	1898		,,	38.2			
1897		,,	35.3	1897		,,	37.9			
1896		,,	35.5	1896		,,	38.4			

It will be seen from the foregoing table that there was a considerable rise in the average age at death

during the year under review, and that the average age at death during the year 1907 is the highest on record for both males and females. It will also show that females live to a greater age than males, and that the average age of those who died during 1907 was over six years greater than that of the males.

Zymotic Deathrate.

From the principal Zymotic diseases 69 deaths resulted during the year, which gives a deathrate of '63 per 1000, against 1 31 during the previous year. There was thus a marked fall in the deathrate from the chief infectious diseases during 1907, and the rate is the lowest that has yet been recorded in the Borough.

Of the 33 greatest towns of England and Wales for the year under review Halifax had the lowest Zymotic deathrate, and of the 76 great towns in only three was this rate below that of our own, viz.:—Hornsey, '55; Hastings, '48; and Bournemouth, '23.

The zymotic deathrate of 1907 for the other Yorkshire great towns was as follows:—Leeds, 1·26; Sheffield, 2·64; Bradford, '89; Hull, 1·77; Huddersfield, '77; York 1·21; and Rotherham, 2 per 1000 respectively.

In the following table the average zymotic deathrate of England and Wales, and of the great towns is shown.

	DEATHRATE FROM								
	Small- pox.	Measles	Scarlet Fever.	Diph- theria.	Whoop- ing Cough.	Fever.	Diarr- hoea.	Zymotic Death- rate,	
England and Wales 76 Great Towns 141 Smaller Towns England and Wales,	0.00	0.43	0.15	0.12	0.32	0.07	0·29 0·40 0·29	1.54	
less the 217 towns								0·91 0·63	

It will be seen from the above table that Halifax compares most favourably in its zymotic deathrate with the Country generally, its zymotic deathrate being below the average of what may be regarded as rural England.

In the following table the deaths from the chief zymotic diseases are distributed among the Wards of the Borough.

WARDS.	Small- pox.	Measles.	Scarlet Fever.	Diph- theria.	Whooping Cough.	Fover.	Diarr- hosa.	Zymotic Death- rate per 1000.
0 - 1 -				,				0.5
Ovenden		· · · ·		4				0.2
Akroydon			1	2	1111	1	5	1.3
North		1		5		1	3	1.1
Central		1	* * *	2		1	2	0.7
West					4			0.4
South		- 1		1	1	2	1	0.7
East			1	1	***		2	0.5
Southowram		1	,	2				0.3
Skircoat					***			0.0
Copley		1		1				0.6
Pellon				2	4	1		0.7
Kingston				2	1	2		0.4
Illingworth			***	5	1	1		0.9
Northowram				1			1	0.6
Warley								0.0
Totals		5	2	28	11	9	14	Av'ge 0:63

On referring to the above table it will be observed that the Wards of Skircoat and Warley had no zymotic deaths during the year under notice. This is remarkable so far as Skircoat is concerned, because 30 cases of infectious disease were reported from that Ward during the year, and in only one Ward, that of Illingworth, were a larger number notified.

The following table gives the zymotic deathrate of the various Wards during the past five years, together with the average for each Ward.

		ZY	MOTIC I	EATHRA	TE	
WARDS	1903	1904	1905	1906	1907	Average
Ovenden	0.6	1.5	1.9	1.9	0.5	1:3
Akroydon	0.4	2 4	0.6	1.6	1:3	1.2
North	1.0	2.7	1:3	1.3	1.1	1.5
Central	0.3	0.6	0.7	1.1	0.7	0.6
West	0.7	1.4	0.7	0.4	0.4	0.7
South	0.1	1:3	0.9	1:0	0.7	0.8
East	0.9	1.5	0.8	1.5	0.5	1.0
Southowram	18	1.1	1.8	3.0	0.3	1.6
Skircoat	0.4	1.0	0.5	0.9	0.0	0.2
Copley	0.0	2.0	2.0	1.6	0.6	1.2
Pellon	0.5	1.8	0.5	0.9	0.7	0.9
Kingston	0.4	0.5	03	1.1	0.4	0.2
Illingworth	0.5	0.8	0.4	0.8	0.9	0.7
Northowram	0.3*	2.4	1.8	1:5	0.6	1.3
Warley	0.3	0.0	0.3	1.7	0.0	0.4

From the above table it will be seen that Warley has had the lowest average zymotic deathrate, Skircoat and Kingston coming next to it in that respect.

The low zymotic deathrate of Central Ward is somewhat astonishing considering its situation, its deathrate being less than half of that of Wards of such a rural character as Northowram and Ovenden.

The average zymotic deathrate of the Borough is less than half what it was 30 years ago. Since that period there has been a gradual fall in this deathrate, as the following table will show.

Period	Deathrate
1877-81	2.50
1882-6	1.55
1887-91	1.43
1892-6	1.33
1897-01	1.40
1902-6	1.02
1907	.63

Infantile Mortality.

During the year 1907, 195 infants died under one year of age, compared with 242 during the previous year. This gives a mortality of 102 deaths to 1000 births registered.

This is the lowest rate of infant mortality that has ever been recorded in the Borough. The infant mortality for the previous year was 116 deaths to 1000 births registered.

The infantile deathrate for 1906 was lower than any previously recorded, being 14 per 1000 below that of the previous year, and it is strange that a similar fall of 14 occurred during 1907. If we can only secure a further fall of 14 during the current year, we shall be getting nearer to what ought to be the normal infantile deathrate. This, however, can hardly be expected, and it is quite possible that there may be a rise in this rate before any further marked fall takes place.

The following table gives the number of births, birthrates, the number of deaths of infants, and the mortality per 1000 births for each Ward in the Borough.

WARDS.	Number of Births.	Birthrates.	Number of Deaths under 1 year.	Mortality per 1000 Births.
Ovenden Akroydon North Central West South East Southowram Skircoat Copley Pellon Kingston Illingworth	148 161 176 147 158 99 91 154 190 68 161 159 109	20·2 24·0 21·1 18·7 17·0 12·4 13·1 20·3 18·9 22·2 16·8 15·0 15·0	13 26 18 18 18 18 20 22 8 7 11 10 9	87 161 102 122 113 80 219 142 42 103 68 62 82
Northowram Warley	63 43	19·1 15·0	0	111
Totals	1927	17.7	195	102

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

CAUSE OF DEATH.	Under ! Week	1-2 Weeks	2-3 Weeks	3-4 Weeks
All Certified	40	12	12	5
Causes. Uncertified	2			1
Common (Measles				
Cl-t E				
Diseases. Diphtheria, Croup		***	***	***
Whooping Cough			***	***
(Diamboso all famos		***		411
Diarrheal Enteritie Nos enteritie Gastro enteritie			***	***
Diseases. Castritis Muco-enteritis, Gastro-enteritis Gastritis, Gastro-intestinal Catarrh				***
D D'-41	15	6	9	ï
Committed Defeate	-	1	1	
Wasting Injury of Birth	2	2		
Diseases. Want of Donast will Chamption				***
	5	3		1
Atrophy, Debility, Marasmus	9	9		1
Tuberculous Meningitis			***	
Tuberculous Peritonitis: Tabes				
Diseases. Mesenterica				
Other Tuberculous Diseases				
Erysipelas				
Syphilis		17.4		
Rickets				
Other Convulsions	8		1	2 1
Causes Bronchitis				1
Laryngitis				
Pneumonia			1	
Suffocation, overlying	1			
Other Causes	6			1
*	42	12	12	6

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
69	20	20	9	12	15	5	14	12		6	6	192 3
31 7 4 9 11 1 1 7	1 2 2 1 3 1 2 2 2 2 2 2 2	1 1 1 8 1 1 2 3 1 1			1		1	2			1	$\begin{array}{c} 5\\ 2\\ \dots\\ 6\\ 12\\ 3\\ 4\\ 33\\ 8\\ 4\\ 1\\ 25\\ 5\\ 3\\ 1\\ 1\\ 2\\ \dots\\ 4\\ 19\\ 17\\ \dots\\ 16\\ 1\\ 23\\ \end{array}$
72	20	20	9	12	15	5	14	12	4	6	6	195

The infant mortality of the various Wards varies considerably from year to year, although certain Wards always have a comparatively high infant deathrate, and others a low one. By taking an average of five years a fair comparison can be made between the Wards as far as this deathrate is concerned.

The following table gives the average infant mortality and the birthrates of each Ward during the past five years.

WARDS.	Des	aths under	1 Year to	1000 Birth	ıs Register	ed.	Average Birthrate during the
WARDS.	1903.	1904.	1905.	1906.	1907.	Average.	past five years.
Ovenden	132	90	132	116	87	111	20.1
Akroydon	122	162	167	96	161	141	25.1
North	126	162	197	137	102	145	23.5
Central	123	145	176	239	122	161	20.3
West	135	127	139	89	113	120	16.7
South	136	117	115	63	80	102	14.5
East	214	228	145	260	219	213	15.2
Southowram	193	127	148	130	142	148	22.9
Skircoat	90	61	82	80	42	71	20.4
Copley	50	46	93	56	103	69	17.8
Pellon	72	126	129	84	68	96	18.4
Kingston	126	152	71	62	62	94	17.2
Illingworth	101	158	85	99	82	105	18.4
Northowram	71	136	155	84	111	111	23.6
Warley	116	69	78	150	0	82	19.6

East Ward still has the highest infantile deathrate although it has a very low birthrate, viz.:—15.2 per 1000.

There was a marked fall in the infantile deathrate of Central Ward during 1907, though its average rate for the five years, as shown by the above table, is higher than that of any other, except East Ward.

Copley Ward has the lowest average infantile deathrate, and it has always occupied that position in this respect since it was added to the Borough.

With a view to the spread of information and to lower the infantile deathrate of the Borough, I have, during the past two or three years, given lectures illustrated with lantern slides, in various parts of the town, and printed leaflets containing "Hints on how to bring up a baby" have been distributed far and wide, through the medium of the midwives registered in the Borough.

With a view to a possible further reduction in this deathrate, the "Notification of Births Act" of 1907 has been, with the consent of the Local Government Board, put into force in the Borough. A Lady Health Visitor in the person of Miss Watson Wayne has been appointed to visit and instruct mothers in their homes, and a band of voluntary ladies called "The Public Health Union" has been formed to assist the lady visitor in this important work.

With these agencies at work it is hoped that a further reduction in the number of deaths among infants will be brought about, especially in those Wards where infantile mortality is so excessive. In my Annual Report last year, in dealing with the question of the deathrate among infants, from premature birth, I suggested the use of an incubator, and that such incubators might be provided by the Municipality.

This suggestion raised a considerable amount of criticism in various quarters, both adverse and otherwise.

I mention this because I have recently seen a report in a medical paper, stating that in the treatment of premature infants, at the Maternity Hospital, Paris, incubators are used, also a portable incubator is employed for cases born outside the hospital, and it is stated that the result has been, that the deathrate from this cause among infants, has been diminished from 66 to 36%.

The next table shows the number of deaths which have taken place in the Borough from some of the chief infantile diseases, and gives the deathrate therefrom of each disease per 1000 of the population.

DISEASES.	P	vumbe und	er of i		8	Rate per 1000 of Population.				
	1903	1904	1905	1906	1907	1903.	1904	1905	1906	1907.
From all causes	279	282	271	242	195	2.61	2.63	2.52	2.24	1.79
Respirat'ry Diseas's	59	61	52	39	33	.55	.57	.48	.36	.30
Premature Birth	50	59	62	39	33	.46	.55	.57	.36	.30
Diarrhœa	8	22	10	12	12	.07	.20	.09	.11	.11
Whooping Cough	13	4	15	1	6	.12	.03	.14	.009	.07
Convulsions	33	22	22	20	19	.30	20	.20	.18	.17
Scrofula, Tuberculosis	20	10	15	8	17	.18	.09	.14	.07	.15
Measles	3	16	1	15	5	.05	·14	.009	.13	.04

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

	Deaths under 1 year per 1000 Births
England and Wales	118
76 Great Towns	127
141 Smaller Towns	122
England and Wales less the	
217 Towns	106
HALIFAX	102

It will be observed from the above table that the infantile deathrate of Halifax is not only below the average of the 217 towns of England and Wales, but also below the average of the Country, exclusive of those towns.

The infant mortality of the other Yorkshire great towns for 1907 was as follows, viz.:—Leeds, 130; Sheffield, 145; Bradford, 124; Hull, 127; Huddersfield, 97; York, 125; and Rotherham, 148 respectively.

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

Period	Halifax	England and Wales
1875-9	173	145
1880-4	161	141
1885-9	158	142
1890-4	- 163	148
1895-9	154	157
1900-4	132	143
1905-7	116	126

The following table shows the average infant mortality during the past five years of 34 of the largest towns of the Country, which have a population of 100,000 and upwards, and it will be seen that only three have a lower average infant deathrate than that of Halifax, viz.:—Bristol, Southampton, and Brighton.

34 Large Towns.	Deaths under 1 year to 1,000 Births Registered.									
DARWE LOWSO.	1903.	1904.	1905.	1906.	1907.	Average.				
Burnley	216	228	173	213	158	197				
Stockport	183	204	168	186	159	180				
Middlesbrough	186	170	174	170	158	171				
Preston	161	183	153	202	158	171				
Rhondda	157	151	200	173	162	168				
Nottingham		175	155	171	165	166				
Liverpool	159	196	154	172	144	165				
Manchester		187	157	167	146	165				
Birmingham	158	195	155	167	147	164				
Sheffield		158	167	158	145	162				
Blackburn		191	146	155	153	162				
Salford	166	193	150	160	140	161				
Norwich	149	179	173	172	125	159				
Hull	14 M 15 M	181	153	158	127	156				
Leicester		163	148	168	131	154				
Bolton	152	167	166	140	146	154				
Gateshead	160	175	138	162	136	154				
Leeds	1 100 475	176	152	150	130	152				
Oldham		155	150	145	144	151				
Sunderland	10 MIN 150	165	143	139	130	146				
Newcastle-on-Ty'e		156	137	151	123	146				
Bradford	147	166	144	151	124	146				
Birkenhead		180	127	151	110	144				
Plymouth		173	136	152	110	143				
South Shields	132	144	145	150	133	141				
Wolverhampton	141		136	139	130					
Derby	128	143	151	115	121	131				
Cardiff	122	144	118	138	131	130				
Portsmouth	113	141	133	129	123	128				
Huddersfield	120	136	119	135	97	121				
Halifax	122	130	130	116	102	120				
Bristol	116	133	122	126	100	119				
Southampton	114	114	133	113	108	116				
Brighton	110	134	101	110	113	113				

Comparison of Ward Deathrates.

The table below serves to compare the undermentioned deathrates of the different Wards of the Borough for the year 1907.

WARDS.	General Deathrates	Zymotic Deathrates	Respiratory Deathrates	Phthisis Deathrates	Infantile Mortality
Ovenden	12.0	0.2	2.8	0.6	87
Akroydon	16.2	1.3	2.8	0.5	161
North	13.8	1.1	3.7	0.8	102
Central	17.8	0.7	2.2	1.7	122
West	14.4	0.4	3.1	0.7	113
South	14.9	0.7	2.4	0.8	80
East	21.6	0.2	4.1	2.7	219
Southowram	15.0	0.3	1.8	1.0	142
Skircoat	10.1	0.0	2.2	0.7	42
Copley	16.6	0.6	2.6	0.9	103
Pellon	12.2	0.7	1:5	1.0	68
Kingston	12.3	0.4	2.0	1.1	62
Illingworth	13.5	0.9	2.2	1.5	82
Northowram	13.6	0.6	2.1	1.2	111
Warley	15.7	0.0	3.1	0.3	0
Average	14.3	0.6	2.5	1.1	102

Notification of Infectious Disease.

A total of 310 cases of infectious disease were reported during 1907, against a total of 473 during the previous year.

The next table gives the total number of cases of each disease notified, and shows the distribution of the reported cases among the Wards of the Borough, and institutions situated therein.

w.	ARDS.		Typhoid Fever.	Scarlet Fever.	Puerperal Fever.	Diphtheria.	Erysipelas.	Total.
Ovenden	***		 1	12		12	6	31
Akroydon			 4	12		7	4	27
North			 2	3	2	9	4	20
Central			 8	2	3	4	1	18
West			3	7		8	2	20
South			 6	9		8		23
East			 1	1		4	2	8
Southowram			 1	2		8	2	13
Skircoat			 5	12		9	4	30
Copley			 2	4		5	1	12
Pellon			4	2		13	2	21
Kingston			8	8	1	5		22
Illingworth			 11	11	1	16	6	45
Northowram			 3	3		4	2	12
Warley			 1	1		6		8
	Tota	nl, 1907	 60	89	7	118	36	310

PUBLIC INSTITUTIONS (which are included in the above).

Royal Infirmary Poor Law Hospital The Orphanage	2	2 1		1	1 3 	4 6 1
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Lists containing the names and addresses of persons notified to be suffering from infectious diseases were sent each week throughout the year to the chief librarians for their information.

The following table shows the number of cases of the various infectious diseases notified during each month of 1907.

MONTH.	Smallpox.	Typhoid Fever.	Scarlet Fever.	Puerperal Fever.	Diphtheria	Erysipelas.	Total.
January		12	11	1	6	4	34
February		2	4		15	1	22
March		4	5	***	14	3	26
April		4	9	2	16	3	34
May		1	9		12	3	25
June		5	8	1	5	5	24
July		2	10	1	10	2	25
August		1	4	1	4	3	13
September		1	11		3	1	- 16
October		3	4		5	4	16
November		12	8		12	2	34
December		13	6	1	16	5	41
Totals		60	89	7	118	36	310

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

YEAR	Small-pox Cholera	Typhus Fever	Enteric Fever	Scarlet Fever	Continued	Puerperal Fever	Relapsed Fever	Diphtheria	Erysipelas	Chieken-pox	Membranous Croup	Totas	Rate percent- age of roralation
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			400	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	.50
1897			78	476	. 1	8		67				630	.66
1898			79	626	1	9		23				738	.76
1899			92	762	2	3		58		110		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	13C		61	320	2	1		50	81	328	1	974	91
1904	80		47	486		9		80	73			775	.72
1905	49		50	338		6			54			584	.54
1906			38	214		7			56			473	.43
1907			60	89		7		118	36			310	.28

It will be observed from the above table that fewer cases were reported during 1907 than was the case in any year since 1896, and that there has been a gradual fall in the number reported since 1903.

While that is true, there was a considerable increase in the number of cases of Typhoid Fever reported. It is satisfactory however to record that only 89 cases of Scarlet Fever were notified, less than half the number for the previous year, and although Diphtheria was rather prevalent, there was also a considerable fall in

the number of cases of this disease in comparison with the previous year.

Causes of Death.

The causes of death in the Borough, of persons belonging thereto, during the year 1907, are shown in the following table.

	CAUSES OF I	DEATH.			Number.
Small-pox					0
Measles				***	5
Scarlet Fever			***		2
Whooping-cough					11
Diphtheria and Mer	nbranous Ci	roup			28
Enteric Fever					9
Epidemic Influenza					11
Croup					1
Diarrhœa					14
Enteritis					5
Puerperal Fever .					4
Erysipelas					1
Other Septic Diseas	ses	***			5
Phthisis		***			120
Other Tubercular I	Diseases				29
Cancer, Malignant	Diseases				114
Bronchitis					152
Pneumonia					127
Pleurisy					2
Other Diseases of R	Respiratory (21
Alcoholism, Cirrhos				2000	13
Premature Birth					33
Diseases and Accide		urition			11
Heart Diseages			***		169
A . 11 .					23
C: 11					5
Diseases of Brain a					167
Diseases of Digestiv	ve System				54
Diseases of Urinary					60
Congenital Malform					10
Convulsions					25
Old Age		***			145
All other causes		***			182
All causes					1558

Smallpox.

No case of this disease occurred during the year.

Scarlet Fever.

Although Scarlet Fever was so markedly less prevalent than during the previous year, the disease was present in the Borough throughout the year. It was, however, most prevalent during the second and third quarters of the year.

There was a total of 89 cases reported, against 214 during the previous year.

The mortality from this affection has gradually fallen during the past 20 years, and owing to the markedly less prevalence of the disease during the past two years, the attack rate per 1000 of the population, which up to the year 1904 had remained about the same, has considerably fallen, as the following table will show.

Period	Average No. of Cases of Scarlet Fever per annum notified	Average Population	Average attack rate per 1000 population	Average case Mortality per cent. attacked
1885-9	331	79,207	4.1	6.1
1890-4	255	86,808	2.9	5.8
1895-9	392	95,755	4.0	3.4
1900-4	465	105,211	4.4	3.4
1905-7	213	108,000	1.9	2.8

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	11	4	5	9	9	8	10	4	11	4	8	6	89

Of the above 89 cases, two died, which gives a deathrate of '01 per 1000, and a case mortality of two per cent. of those notified. During the previous year the deathrate was '05, and the case mortality 2'8 per cent.

Fever.

No case of Typhus Fever has occurred within the Borough since the year 1900, and no case of Continued Fever has been notified since the year 1903, consequently all the cases reported under the above heading were of Typhoid or Enteric Fever.

This disease was more prevalent in the Borough than had been the case since the year 1903, there being 60 cases reported against a total of 38 during the previous year.

Typhoid Fever was prevalent in the Borough more or less throughout the year, the largest number, viz. 13, being reported during the month of December.

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

		Drai	nage	Venti	lation					Prol	bable	ore	ıssign	ed c	ause	
Disease	Number of Cases reported	Good	Bad	Good	Bad	Old Middens	Goux Closets	Water Closets	No trace	From previous case in same house	From a cold	From Bad Drains	From other cases in the neighbourhood	Contracted away from home	From eating shell fish	Contracted on board ship
Typhoid Fever	60	52	8	60		7	46	7	30	19	4	1	2	1	2	1

In connection with the cause of this disease, as will be seen by the above table, only two cases were definitely stated to have arisen from eating shell-fish, yet in a few others this may have been the cause, as in several instances shell-fish had been partaken of within a reasonable time of the onset of the disease.

As will also be observed 19 cases occurred in houses where there had been a previous case reported. In connection with this I may also mention that in two or three instances further cases occurred in the house after the return of a case from hospital. This was found to be more particularly the case where the mother had been treated for this disease in that Institution.

From evidence which has come to light during the past year it appears that a person who has suffered from Typhoid Fever can, in isolated instances, remain infectious for a number of years. Such persons act as

carriers of the disease, and evidence has been adduced which goes to show that individuals of this character retain the infection, and are able to spread it to others, for even two or more years after having suffered from the disease.

If this be true it only adds to the difficulty of tracing the source of infection in these cases, but it may also be an explanation of isolated cases cropping up from time to time amidst good sanitary surroundings, and the origin of which cannot otherwise be accounted for.

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

0.0
92 22
79 20
67 15
65 14
61 11
47 10
50 9
38 4
60 9

As will be seen by the above table, nine of the 60 cases reported ended fatally, which gives a deathrate of '08 and a case mortality of 15 per cent. of those notified, against a deathrate of '03 per 1000 and a case mortality of 10 per cent. during the previous year.

Diphtheria.

Diphtheria was less prevalent in the Borough than during the previous year, 40 less cases having been reported. A larger number of cases were however notified than during any year, except 1906, since the notification of infectious diseases was enforced. Although that is the case, this fall in the number reported is so far satisfactory, seeing that there had been a continuous increase in the number of cases in the Borough since the year 1902.

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

YEAR	Number of Cases Reported	Number of Deaths
1902	37	8
1903	50	10
1904	80	17
1905	87	17
1906	158	42
1907	118	28

The disease was present throughout the year, and cases cropped up throughout the Borough, but Illingworth, Pellon, and Ovenden Wards suffered the most therefrom. It appears probable that a number of the cases which occurred in Ovenden and Illingworth were spread through school influence, as ten of the children attacked attended Moorside school which is situated in that neighbourhood.

These cases were also of a very virulent type.

A defective drain was found in connection with this school which was remedied, and the schoolrooms were thoroughly disinfected.

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

	1	Drai	nage	Venti	ilation					Pro	babl	e or	assign	ned c	ause	
Disease	Number of Cases reported	Good	Bad	Good	Bad	Old Middens	Goux Closets	Water Closets	No Trace	From previous case in same house	From a cold	From bad drains	From other cases in the neighbourhood	From house visiting	Contracted at School	Contracted away from home
Diph- theria	118	112	6	118		10	87	21	92	10	2	2	1	2	8	1

Of the 118 cases reported 28 died, giving a deathrate of '25 per 1000, and a case mortality of 23 per cent., against a deathrate of '38 per 1000, and a case mortality of 26 per cent. during the previous year, so that the disease has been not only less prevalent, but there was also a satisfactory fall in the deathrate.

Erysipelas.

There were 36 cases of Erysipelas reported, and one death resulted from the disease during the year, against 56 reported, and 5 deaths during the previous year.

Measles.

The Borough was free from this disease during the first nine months of the year under notice, except perhaps a few sporadic cases, but it broke out in October, and became slightly epidemic during November, especially in Skircoat, Kingston, South, and Copley Wards, and necessitated the closure of the Infants' departments of five schools.

The disease gradually spread to other parts of the Borough, and continued epidemic well into the new year.

The disease caused five deaths, which gives a death ate of '04 per 1000, against '41 and '49 during the previous two years.

Whooping Cough.

The Borough was free from this disease during the first three months of the year under review. A few cases cropped up in April.

It was less prevalent during May and June, but became rather more so during July, and a few cases continued to occur from time to time throughout the year, September appearing to be the month of greatest prevalence. It, however, at no time assumed a serious epidemic form.

Whooping Cough, like Measles, is a highly infectious disorder, and like that disease is chiefly fatal to children under five years of age. It caused 11 deaths and these, together with the 6 deaths which occurred during the previous year, were of children under that age. The deathrate for the year was 1 per 1000, against a deathrate of 05 during the previous year.

Diarrhoea.

The year 1907 did not favour the development of those causes of death which are classified under Diarrhœa, and there was a fall in the deathrate from Diarrhœa throughout the Country generally.

Halifax is remarkable for its freedom from this disease, and there was a marked fall in the deathrate therefrom in the Borough in comparison to the previous year, there being only 14 deaths registered, against 31 during 1906. The period of greatest prevalence was during the end of September and the month of October.

The four-foot earth thermometer did not reach beyond 54°F, which it did on August 11th, and remained at that height until August 29th.

The temperature of the earth has been shown to be related to this disease, and it generally becomes very prevalent when the earth thermometer reaches 56°F.

There was a remarkable freedom from flies, owing undoubtedly to the low temperature of the summer of 1907.

I think it has come more clearly to be shown that flies play a most important part in the causation of this disease, and I quite think that the high earth temperature which has been associated with its prevalence, may act as such through the medium of the fly. An earth temperature of 56° and upwards may bring about the conditions most favourable to the development of this insect. As shown above this temperature was not reached in Halifax last year, and the low temperature experienced through the summer would retard the development of even those flies which did appear. They

would therefore make their appearance later in the summer, and this would correspond not only with a less prevalence but also with a later prevalence of Diarrhæa during the year under review.

Diarrhœa is to a great extent a preventable disease, and its seriousness, especially in connection with infantile mortality, is not sufficiently recognised. If it is to be prevented, greater cleanliness will have to be observed, and accumulations of organic matter, filth, horse manure, &c., which are the breeding places of flies, will have to be more frequently attended to and removed.

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

	Deathrate per 1,000
England and Wales	 0.29
76 Great Towns	 0.40
141 Smaller Towns	 0.59
England and Wales, less the 217 Towns	 0.18
Halifax	 0.15

It will be observed that the Halifax Diarrhœa deathrate compares very favourably with the above rates.

The 14 deaths give a deathrate for the year of '12, against a deathrate of '28 during the previous year.

The deathrates from Diarrhæa of the other Yorkshire great towns for 1907 were as follows: Leeds, '38; Sheffield, '98; Bradford, '17; Hull, '36; Huddersfield, '22; York, '40; and Rotherham, '83 per 1,000 respectively.

Influenza.

The Borough was fairly free from this disease throughout the year, there being only 11 deaths certified to be due to this cause, against 10 during the previous year.

Respiratory Diseases.

Bronchitis, Pneumonia, and Pleurisy are the diseases which are included under the above heading, and 281 deaths were caused thereby during the year, against 289 during the previous year.

The number of deaths from each of these diseases respectively was as follows:—Bronchitis,152; Pneumonia, 127; and Pleurisy, 2; and the deathrate was 2.5 per 1,000, against 2.6 during the previous year.

The Respiratory deathrate for the previous 7 years were 2.6, 2.6, 2.6, 2.8, 3.1, 3.0, and 3.7 per 1,000 respectively.

There was thus a slight fall in this deathrate, which had remained at the same figure, viz:- 2.6 during the previous three years, though before that, there had been a gradual fall in this deathrate.

Children under five years of age contributed no less than 72 deaths to these causes. It seems to me that with greater care on the part of the parents, this number ought to be greatly reduced.

The following table gives the number of deaths from Respiratory diseases during each month of the year under notice, and the five previous years, also the average of those years.

Deaths from Respiratory Diseases	January	February	March	April	May	June	July	August	September	October	November	December	Total
1907	27	38	25	36	21	12	13	14	8	25	33	29	281
1906	32	28	27	29	29	14	11	18	10	30	28	33	289
1905	48	26	31	24	24	16	7	8	9	29	31	33	286
1904	38	28	25	28	18	20	13	10	13	23	26	13	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	328
Average	36	32	29	30	24	17	13	13	11	24	28	36	

In connection with the number of deaths of children under five years of age, the following table, which gives the average number of such deaths during the past three years, is interesting.

	from	Average Respira	number tory Dis	of deat eases in	hs of cl n each r	nildren 1 nonth d	under fiv uring th	re years ne past t	of age, hree ye	ass	
Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
5.3	5.3	4.6	6.0	6.0	5.6	6.3	2.0	2.0	9.6	12.0	11:0

On comparing it with the table immediately preceding, it will be observed that while the largest number of deaths from these diseases occur during January, February, and March, after which there is a gradual fall till August is reached, and then during the last quarter of the year an increase, though not

approaching to the number of deaths which occur during the first quarter of the year. In the case of children under five years of age, the average number of deaths remain practically the same during the first seven months of the year, then there is a sudden fall during August and September, and a marked increase during October, November, and December. Thus the period of the highest Respiratory deathrate in children under five years of age, does not correspond with the period of the highest deathrate of these affections in older people.

Phthisis.

Consumption of the lungs accounted for 120 deaths during the year, against 122, 135, and 134, during the previous three years. This gives a deathrate of 1.1, against 1.12 for 1906, which is slightly below the average of the previous seven years, though not quite so low as the deathrate for 1902, which was the lowest on record for the Borough.

There were 55 deaths registered during the year from other forms of tubercular disease, and these, added to the above, make a total of 175 deaths due to the various forms of tubercular disease. This gives a total deathrate from all tubercular diseases of 16 per 1,000, against 1.5 during the previous year.

Deaths from other forms of tubercular disease included in the following:—

Tubercular Meningitis ... 15
Tuberculous Peritonitis 11
Tabes Mesenterica 29
Other Tubercular Diseases 29

The deathrate of the Country generally has been steadily declining during the past fifty years. No doubt several causes have been in operation in the production of this result, chief among which I think are: the improved housing of the working classes, and the better sanitary conditions which now obtain; the improved social conditions and better feeding of the people; the decline of Pauperism in the Country, and I hope also a greater enlightenment among the people regarding the nature and infectious character of this dread disease.

The following table shows the decline which has taken place in the Phthisis deathrate of Halifax during the past 27 years.

	Average Deathrate from Phthisis
Ten Years - 1881-1890	2.00
Ten Years - 1891-1900	1.50
Seven Years - 1901-1907	1.20

It is estimated that there are about 360 persons in the Borough suffering from this disease, and the number of fresh cases reported during the year was 107, against 86 during the previous year, and of which 75 were males and 32 were females.

In five of the houses in which the above 107 cases occurred, there had been a previous case within a recent period, and in another, 2 previous cases.

On enquiring into the family history in connection with this disease, it was found that in four families there had been 1 previous case, in two families 2 previous cases, and in another family 4 previous cases.

In order to do what we can with a view to the prevention of the spread of this disease, leaflets are distributed, of which the following is a copy.

COUNTY BOROUGH OF HALIFAX

Prevention of Consumption.

- 1. Consumption has been proved to be an infectious disease.
- 2. It is usually spread from one person to another by means of the sputum which is coughed up by a person suffering from the disease.
- 3. A consumptive person should therefore be most careful in dealing with his expectoration.
- 4. He should spit into a piece of paper or rag, and immediately burn the same, or when out, he should carry a pocket sputum flask containing some disinfectant, into which he should spit. This flask should be thoroughly cleansed and the contents-burned or otherwise destroyed.
- 5. The clothing of a consumptive person should be washed separately from that of other persons.

- 6. The bowel discharges of a consumptive person should be disinfected, and soiled linen at once boiled.
- 7. A consumptive person should as far as possible occupy a separate room or rooms, and the windows should be opened night and day.
- 8. The walls, floors, and ceilings of the living and sleeping rooms of persons suffering from consumption should be cleaned and disinfected at least once every two months.
- 9. A mother suffering from consumption should not suckle her child.
- 10. All cows milk, especially that for the use of children, should be boiled before being drunk.
- 11. All meat should be thoroughly well cooked, and not eaten underdone.
- 12. The rooms, after the death of a consumptive patient, should be disinfected.

Pocket sputum flasks are supplied, free of charge, and any room or house will be disinfected free of cost, on applying to the Medical Officer of Health.

Health Department,
Town Hall,
May 30th, 1907.

Pocket spittoons are supplied free of charge, and disinfection is offered in the case of death or removal to hospital or elsewhere of persons suffering from the disease. During the year, there were 68 houses dis-

infected after death, and 4 after removal to hospital, and in 30 cases disinfection was refused.

Anthrax.

2 cases of this disease were reported during the year, against 1 during the year 1906. Both cases were in families employed in the manipulation of wool.

On investigating these cases at the particular factory concerned, we found that every known precaution is taken for the prevention of this disease. Wash-basins, nail brushes, and respirators are provided for the wool sorters, duellers, and washers, and also air fans are fixed for the wool sorters. No death was registered during the year as having resulted from this disease.

Cancer.

All forms of malignant disease are included under this heading, and 114 deaths were registered as due to these causes, against 102 during the previous year, giving a deathrate of 1.0 per 1,000, against .94 for 1906.

Though the Cancer deathrate is slightly above that of the previous year, it has not varied very much during the past 16 years, as the following table will show.

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

Inquests and Uncertified Deaths.

There were 101 inquests held by the Coroner during the year, including 20 of persons non-resident in the Borough.

The 81 certified by the Coroner after inquests are equal to 5·1 of the total deaths in the Borough, and the 15 deaths which were neither certified by a medical practitioner nor the Coroner is equal to '9 of the total deaths.

There was thus a slight increase in the number of uncertified deaths, though the percentage of these deaths had markedly fallen since the year 1901, as the following table will show.

Years	1901	1902	1903	1904	1905	1906	1907
Percentage certified by Coroner Percentage uncerti- fied		2.9	3 ·1	2.8	3·5 0·7	4·7 0·7	5.1

Sewerage and Drainage.

The sewers generally in the main portions of the Borough are in a satisfactory condition, and are flushed from time to time as required.

The scheme for the drainage of Copley Ward has been partially completed, and that for the drainage of Northowram is still under the consideration of the Council. There are certain other portions of the Borough not yet sewered,

With regard to the sewage scheme of Warley. There are still quite a number of houses not yet connected up to the sewers.

The first portion of the filter beds which have been constructed at the outfall works, Salterhebble, have been completed, are filled with broken clinker, and are almost ready for dealing with the effluent from the septic tanks.

Scavenging, Disposal of Night Soil and House Refuse.

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

This is a very important work, and its due performance undoubtedly has a direct bearing on the maintainence of the health of the Borough.

So far as the present methods are concerned, I believe the work has been satisfactorily carried out during the year. Now, however, that we have at our disposal such an excellent and abundant supply of water, it should, in my opinion, be used more freely in the future than has been in the past for this purpose.

The streets, and especially the back streets, courts, alleys, and back yards, should be flushed and cleansed from time to time, especially during summer weather, so as to remove filth and thoroughly cleanse the surroundings of more especially the lower class property in the town. Not only would such precedure serve that end, but would also act as an object lesson in cleanliness to many of the inhabitants who live amidst filthy surroundings.

To thoroughly cleanse the town in this way, would in my opinion add greatly to the health of the people, and the water which has cost, and is costing the town so much, would be better utilised than by allowing it to run down the stream.

Pure water, used in this way, would be of greater value than all the much vaunted disinfectants that are on the market.

The greater part of the night soil is dealt with under the goux system. There are 17,920 goux closets in the Borough, and the emptying of the goux tubs varies from three to ten days, according to circumstances. The tubs, when changed, are brought to the Depot and washed out before being returned.

A re-arrangement of the method of collecting these tubs has been effected, which will result in a more frequent renewal and cleansing of these tubs.

The increase in the number of goux tubs during the year was 97, against 162 during the previous year.

The Corporation now compel the provision of water closets in all new houses, and in all conversions, where there is a sewer and water supply sufficient for the purpose. The consequence is that the goux closets are not increasing in number at the rate which obtained two or three years ago, and there is a corresponding increase in the number of water closets.

The following table gives the number of water closets in the Borough, and shows the increase that has taken place since the year 1893,

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

There are now 869 privy middens in the Borough, a decrease of 9 during the year, and 456 dry ashpits, against 454 a year ago, an increase of 2 for the year.

A number of these privy middens being near houses are a nuisance, especially during the process of emptying them. As soon as some of the contemplated sewers are constructed, as many as possible of these should be converted to water closets.

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

The average number of horses and carts used in dealing with the contents of these tubs is 14; 28 men being engaged in this work.

The refuse is removed to tips, which is not a satisfactory way of dealing therewith, as tips are a

nuisance. Some method of destroying this refuse should be substituted.

Garbage from the markets and fish refuse is removed to a field hired for the purpose, in which a trench is dug and it is there buried. A number of complaints of offensive smells arising therefrom have been made during the past year or two, the remedy for which will be some better method of destroying or otherwise dealing with this refuse.

Water Supply.

The Summer of 1907 having been of a wet character, there was a plentiful supply of water throughout the year, which was of excellent quality.

The three new reservoirs at Walshaw Dean have been completed, and were opened by the Chairman of the Waterworks Committee during the year.

With the increased storage capacity secured to the town by these reservoirs, there is not likely to be any shortage of water for many years to come.

The gathering grounds from which the water supply is obtained being of a moorland character, the water is liable to contain an excessive amount of peaty acids. It has now however been satisfactorily treated for several years, and the following table shows the average acidity of the samples of Ogden and Ramsden Wood reservoirs, taken before and after treatment. The figures obtained are the result of the analyses of Mr. Dewhirst, the Borough Analyst.

		Average Acidity	of Sample of Wate	er
Month	Ogden 1	Reservoir	Ramsden W	ood Reservoir
	Before Treatment	After Treatment	Before Treatment	After Treatment
January	 .85	·14	. 27	-22
February	 No estimation	.19	.40	21
March	 .90	.10	.35	.50
April	 No estimation	No estimation	No estimation	.25
May	 No estimation	No estimation	No estimation	No estimation
June	 .90	·17	No estimation	.25
July	 No estimation	.50	·32	.28
August	 No estimation	No estimation	.30	·22
September	 ·65	.17		No estimation
October	 No estimation	No estimation	:37	.13
November	 No estimation	No estimation	No estimation	No estimation
December	 ·95	.18	No estimation	·22

From the above table it will be observed that the treatment applied has had a much more beneficial effect on the water supplied from Ogden reservoir in reducing its acidity than that supplied from Ramsden Wood reservoir.

The water of Ogden reservoir it is true contains much more acid than that in Ramsden Wood, but still there should be no difficulty I think in neutralising the acid of the latter in the same proportion as the former. I consider that the water should be as near neutral as possible, and should err slightly on the side of alkalinity rather than acidity.

I have received no complaints of lead poisoning during the year within the Borough, nor from any of the districts outside which are supplied by Halifax water.

Common Lodging Houses.

The number of Common Lodging Houses situate within the Borough is 13, the same number as was in existence during 1906, but they are registered to accommodate 803 lodgers, against 657 for the previous year.

These Lodging Houses are under the control of the Police, and I am informed by the Chief Constable that the regulations have been duly observed during the year, and that there has been no necessity for any prosecution in connection therewith.

Dairies, Cowsheds, and Milkshops.

The Dairies, Cowsheds, and Milkshops were under the supervision of Meat Inspector J. T. Millington and District Inspector R. Pickard, during the year under review. The number at present on the register is as follows:—

Cowsheds	 	 500
Milkshops	 	 69
	Total	 569

The total for the previous year was 579, being a decrease of 10.

The number of Dairy Farmers and Purveyors of Milk on the register is 387, against 418 for the previous year, a decrease of 31.

The progress made in securing the alterations and re-construction of the older cowsheds in the Borough is slow. We, however, continue to press for these improvements, and were enabled to secure the alteration and re-construction of nine cowsheds during the year, which, together with 74 previously reported on, make a total of 83 cowsheds dealt with since the present regulations came into force.

I have frequently, and year after year, both in my Annual Reports and elsewhere, called attention to the want of greater cleanliness on the part of the cow keepers in dealing with the milk they supply, and I must say that some progress in this direction has been made, but there is still great room for further improvement.

I am glad to be able to report, however, that one farmer has taken the matter in hand in earnest and has established a model dairy. He has a new cowshed, properly drained, which he keeps scrupulously clean. He regularly grooms his cows, and cleans their udders before he milks them. The milk is then taken as quickly as possible and passed through a refrigerator, and filtered,

and put up into sealed bottles or cans, in which it is delivered to the customer. His milk is produced under as clean conditions as is possible, and being delivered as above, there is no possibility of contamination during its transit. This milk, even in the heat of summer, if kept in a cool place will remain sweet for 28 or even 48 hours.

It will at once be apparent to the most casual observer, that milk produced and delivered under these conditions must be freer from dirt and contamination than that which is produced, as so much is, among filthy surroundings, and ladled out in its delivery from a dirty cart. By continually having to remove the lid and dip the measure into the stock can, not only must the measure under such conditions of necessity be constantly contaminating the milk, but the milk, being so frequently uncovered, is exposed to the dust and germs of the atmosphere.

Now that one farmer has led the way, it is hoped that more will follow in his footsteps.

If the public would only take the matter up and demand a clean milk, such would have to be the case. I cannot think that the public relish drinking milk contaminated with hairs, dirt, and cow dung. If clean milk is to be produced, the cows and their surroundings must be clean, because if dirt and cow dung once gain admission to the milk no amount of filtering can possibly remove it therefrom.

There has been a great deal of discussion in recent years upon the wholesomeness and nutritious value of sterilised and boiled milk. There is no doubt that the sterilisation of milk not only interferes with the flavour thereof, but also so alters the milk that its digestibility and nutritious value is to some extent interfered with; but under present conditions this question must be looked at from the standpoint of the lesser of two evils, and until the public are able to procure a clean and pure milk the only safe course is to sterilise it before use.

The Inspectors between them paid 1,175 visits to the cowsheds, and 204 visits to the various milkshops in the Borough.

In connection with the above visits, the undermentioned 108 defects were discovered and reported, and 133 were remedied.

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

Nature of Defects	Number Reported	Number Remedied
Want of Light	5 3 8	10 6 12
Defective, Made-up, and Untrapped Drains	15	20
Defective Floors	7 13	12 13
Cowsheds requiring Limewashing Improper position of Middenstead	28 3	28 3
Pigs kept in Cowshed Accumulations of Manure	8 7	8 7
Manure Tanks built Cowsheds Overcrowded Overflowing Liquid Manure Tanks	4 7	3 4 7
Total for 1907 No. of Defects on books Jan. 1st, 1907		133
Total	322	
No. of Defects on books Dec. 31st, 1907	189	

It will be observed that the number remedied was in excess of that reported, and so consequently the number remaining on the books at the end of the year, was to that extent diminished.

This is the first time for a number of years that such has been the case, and as the cowsheds are being gradually brought into a better state of repair and sanitary condition, it is expected that not only will the number of new defects diminish, but those on the books will be gradually dealt with and reduced in number.

During the year, 1,060 cows were individually examined, against 893 during the previous year. Seven were found to have diseased udders. In two or three cases, which were found to be tubercular, the Veterinary Surgeon was called in, and the cases were dealt with under the milk clauses which are in force in this Borough.

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

E.		Remarks			oor			1 Cow with touch of cold				oor 1 Cow with slight chill after calving,						1 Cow with "Foul Foot"; recovered	shortly					-	milk not used		1 Cow with "Whites"				
ON OF CATTLE.		. Condition of Shed		2 Good Sheds	1 Good Shed and 1 poor	one	Poor Shed	Fairly Good	Very Clean	Good	Moderate	1 Good Shed and 2 poor	ones	4 Poor Sheds	Good	2 Good Sheds	Good	Fair		Poor Shed	Fair	11	1 Good Shed; 2 poor ones	Poor		Moderate	,	Poor	2 Good Sheds	Very Fair	Moderate
INSPECTION	Cattle and Condition	General Condition		Very Fair	Good		Fair	Very Fair	Good	**	Fair	Good		11	Fair	Good	Very Fair	Good		Fair	Good		Very Fair	33 33		Fair	Moderate	Good			Very Fair
	oili	Date of Inspection No. of Fo Kumber Examined Udders diseased	07.	248	,, 3 24812		., 3 248 5	., 4 24920	,, 4 249 6	4 24912	4	9 25313		253	9 253	6	9 253	10		,, 10 254 5	10 2541	254	,, 24 26612	24		266			25 267	25	,, 28 269 4

l.		Remarks	7 Pigs in one shed with one Cow; Cow	прадопрат	Udder certified to be tubercular; Cow	suagrant on the car, too		1 Cow down with Eclambsia: another	15				I Cow rather poor but not visibly ill					1 Heifer rather poorly, but has no milk		Hdder certified to be tubercular. Cow	was sold out of the Borough on	March 4th, destination unknown. 2 Cows with eruption on teats of udder;	recovered shortly	
ion of Cattle—continued.		Condition of Shed	2 Poor Sheds	Moderate	Very Fair	Good	Bad	2 Fair Sheds; 1 moderate				1 Fairly Good Shed; 1	poor one	New Mistal	Very Fair	, ,	Good	Very Fair	Moderate	Fair			Madamata	Moderate
Inspection o	Cattle and Condition	General Conditions	Good	Moderate	Good	Very Fair	" "	Fair "		Ill; went down after calving;	with Suppurative Arthritis	Fair					Good		Cattle in fair condition but very	dirty Very Fair		•		" "
		Udders			1															-				
		Number Kamined	269 4	271 2	7111		2 91	27920		280 1		284 12	04 700	984		38 5	290 11	290 11	30 12	29911		30111		o .
	oil.	No. of Fo						22 2		9 28		4 28		4 98								1 30	-	0
		Date of Inspection	Jan. 28	,, 30	,, 30	,, 30	Feb.	2 :				,, 1	1	-				,, 21	.,	27	"	Mar.		

	Udder certified to be tubercular. Owner sold cow away out of Borough same day; destination unknown	Cow reported with Eclampsia on Feb. 8th has quite recovered, but has lost 1 hind quarter of udder Cow affected with Mastitis in right hind quarter of udder
Poor Shed; has been altered since Good Fair	Moderate; rather dirty Moderate " Fairly Good " " " Poor Moderate Good	Bad Shed Very Fair Good Shed, but troubled with condensation of moisture; roof wants underdrawing 2 Poor Sheds Very Fair 1 Good Shed; 1 moderate Moderate Good Moderate 1 Poor Shed; 1 fair
Very Fair Good Moderate	Fair Very Fair """"" """"""""""""""""""""""""""""""	Very Fair Good Woderate Very Fair Yery Fair
1- 1-1-1	8 8 1 10 1 10 1 10 1 10 1 10 1 10 1 10 1	

	_			_		_	_		_	_	_		_	_	_	_		_	-	_	_	_	_	_	_		_	_		_	
		Remarks				Cow extruded uterus after calving and	was slaughtered																	1 Cour clour in cleaning offer column	I CON SION III CIERUSIUS AIUEL CAIVIUS			O L West to the little	Cow has Mashus in right hind quarter of udder		
of Cattle—continued.		Condition of Shed	Poor	Very Fair	Moderate	Very Fair		1 Good Mistal and 1	moderate	Fairly Good	Moderate Sheds and dirty	Poor Mistal; altered	since	Good	Bad Shed	Good; recently altered	Good	Moderate	Bad Shed	Very Fair	33 33	Good		o Medomete Shede	o Moderate Sheds	Fair	3 Moderate Sheds	Moderate	Fairly Good		
Inspection	Cattle and Condition	General Condition	Fair	Moderate	Good	11		Very Fair			8 Fairly Good; 5 Moderate	Very Fair			33 33			Moderate	Good	,,	Very Fair	2, , ,	Good	**		Moderate	Good		Very. Fair		
		Udders bessesib																-											-		
		Number Examined	4		9 9	5 22		8 17			-	6 4							4	3 50			-	4 0	46 28	019	24		4		
	oif	No. of Po	24		25		00				37						37	2874									-	61			
		Date of Inspection	11 3		4	4	0	0 00)	00	18	18		18	18	18	18	18	25	25	25	25	25	25	53	53	53		16		
		Dar	April	1 :		"		11	-	:		33		**	:	33	**	"	**	**	**		**		33			May	**		

May 16 61 10 Very Fair Fairly Good directed Prairly Good directed Prairly Good directed Offensive accumulation of manure; sent directed dir					
16 61 10 Very Fair 17 61 13 Moderate 24 66 2 Fair 30 71 1 26 96 1 1 12 196 13 Poor 5 196 18 Cood 6 196 18 Cood 7 196 18 Cood 6 196 18 Cood 7 109 1 Fair 8 100 16 Fair 11 200 16 Fair 2 21 29 Good 5 22 12 29 Good 11 22 6 Fair 11 22 6 Fair <	Offensive accumulation of manure; sent notice Milk Fever; is recovering but has quite lost her milk	Mammitis; made good recovery Pus discharging from swellings on hind quarters; after-effects of injury during calving. Had it slaughtered	Served notice	Persuaded owner to have poorly cow slaughtered; badly tuberculous Udder certified to be tubercular; Cow was isolated and milk ordered not to be used	
16 61 10 24 66 2 30 71 1 26 96 1 1 27 109 1 29 196 3 6 196 4 6 196 3 6 196 3 6 196 3 6 196 3 7 1 1 7 200 16 11 200 16 12 200 16 13 200 16 14 203 3 1 226 9 1 226 9 1 226 9 1 226 9 1 226 9 1 226 11 1 226 11	Fairly Good 3 Moderate Sheds; very dirty Very Poor Shed Fair	Fair	Very Dirty Good Poor Good Poor Moderate	Good Poor Moderate	rate and rerowded rate
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111 5 22 29 24 14 1 6 6 6 6 6 6 1 1 1 1 1 1 1 1 1 1 1	61 61 71 71	109	196 196 196 196 197 200	203 210 216	221 226 226 226 226 226
May "" July Nov. "" "" "" "" "" "" "" "" ""		15 2			
	May ,,,	July	Nov.	3 3 3 3	Dec.

Slaughterhouses.

There are nine registered private slaughterhouses in the Borough, the same number as has existed since the Borough was enlarged.

They have been under the supervision of Meat Inspector J. T. Millington, who paid 163 visits thereto during the year. They were all found to have been kept in a fairly satisfactory condition.

The Meat Inspector paid 1,131 visits to the public slaughterhouses during the year.

The number of animals slaughtered there during the year ended December 31st, 1907, being as follows.

Cattle	Calves	Pigs	Sheep	Total
6,080	4,183	6,989	16,855	34,107

There were 350 separate seizures of meat during the year, and the following table shows the number of carcases condemned, and the total weight of the same.

	Cattle.	Calves.	Pigs.	Sheep.	Total.
Number of Animals killed Do. condemned		4183 21			34107 78
Weight of those con- demned in lbs	7960	1199	4391	365	13915

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

	Tuberculosis	Inflammatory	Parturition	Jaundice	Septicaemia	Immaturity	Swine Fever	Uremia	Peritonitis	Worried to Death	Cadavers	Unwholesome	"Slink"	Decomposition
Cattle Calves	9	4	1	1	1 5	7					1	6		
Pigs Sheep	17	5 2	3	7			1	1		2	1 2			
Rabbits		2				***	•	•••			2			55
Totals	26	11	4	8	6	7	1	1	1	2	4	6	1	55

Besides the above, the following were also destroyed, there being 85 seizures of fish and fruit.

			lbs.
Fish		***	15,555
Fruit			1,344
Offals			5,974
Other F	oods		3,816

The total amount of meat destroyed on account of tuberculosis was rather greater than the previous year, and this condition, as heretofore, was the chief cause of the seizure and destruction of meat, as the following table will show.

		lbs.
Total amount destroyed		22,351
Total amount of Meat destroyed		
on account of Tuberculosis	8,511	
Total amount of Offals destroyed		
on account of Tuberculosis	4,173	
Total amount destroyed on account -		
of Tuberculosis :		12,684
Total amount destroyed from other ca	9,667	

The greater part of the meat, fish, &c., destroyed as shown above, was so destroyed with the consent of the owner, and in only five cases was a Magistrate's order obtained.

No prosecutions were instituted during the year in connection with the seizure of meat. There were two prosecutions and convictions however, in the case of the seizure of fish.

The following table shows the number of animals slaughtered in the public slaughterhouse during the past nine years.

Year endec	1	Cattle	Calves	Sheep	Pigs	Total.
June 30th,	1899	5333	4208	20270	7019	36830
,,	1900	5530	4395	17245	7896	35066
,,	1901	4859	4089	16479	6924	32351
,,	1902	5312	5018	17802	5702	33834
,,	1903	4991	4422	17776	6599	33788
,,	1904	4290	3916	16788	6678	31672
,,	1905	4601	3558	17126	6696	31981
,,	1906	4191	3942	16785	6129	31047
Dec. 31st,	1907	6080	4183	16855	6989	34107

Factories and Workshops.

Owing to the changes that have taken place in the staff during the year, and the regrettable illness and absence of Inspector Archbell, it was not possible to give the usual attention to the administration of the Factory and Workshops Act, 1901.

Notwithstanding that fact, some good work has been done during the year, in the way of improving the sanitary accommodation of several factories and workshops, by substituting more efficient and up-to-date water closets, for insanitary conveniences and tub closets, and also by securing sufficient sanitary conveniences, in several instances, where this accommodation was previously insufficient.

These improvements have been obtained without the necessity of resorting to legal proceedings.

The register of workshops has been kept up-to-date, and all new workshops discovered by the Inspectors were reported to the Factory Inspector.

The workshops have been supervised as well as possible, under the conditions which existed, and on the whole there was not much fault to find at the manner in which they were kept.

With regard to cleanliness, as usual, the largest number of complaints reported had reference to limewashing. Occupiers do not seem to always give this matter the prompt attention required by the Act.

With regard to air-space, two complaints of overcrowding, and five cases of defective ventilation were reported, all of which were remedied.

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

District	Number of Visits made to Factories	Namber of Visits made to Workshops	Number of Visits made under Shop Hours Act
A ©	11	95	111
В†	61	289	305
C	24	352	422
D	28	150	23
Total	124	886	861

^{* 3} months.

† To November.

The tables which follow indicate the amount of work which was done during the year in connection with factories and workshops, as in them is set out in detail, the sanitary defects which were discovered and dealt with.

For the purpose of this work, and sanitary inspection generally, the town is divided into four districts, each of which is under the supervision of a Sanitary Inspector, and the following tables indicate the work done in the respective districts.

The District Inspectors in carrying out this work made a total of 1,010 visits to the factories and workshops, and 13 visits were paid during the year by myself, for the purposes of inspection, and for the giving of advice in special cases.

DISTRICT A. INSPECTOR JAMES ARCHBELL.

Number of Workshops on Register, 203.

Nature of Defects	Number Registered	
IN PAGEODIES		
IN FACTORIES.		
Limewashing required		2
Insufficient closet accommodation		2
Closet to limewash		1
IN WORKSHOPS.		
Abstract not provided		17
Limewashing required		12
Defective soil pipe		1
Insufficient closet accommodation		1
Want of ventilation		1
Defective water closet		1
Total		38

Note.—In consequence of the illness of Inspector Archbell, the above table represents only three months' work in the above district.

DISTRICT B.

INSPECTOR JOHN WOOD.

Number of Workshops on Register, 317.

Nature of Defects	-	Number Registered
IN FACTORIES.		
Insufficient flush to water closets		 1
Want of light to water closets		 8
Want of urinal accommodation	***	 2
Defective closets and drainage		 3
Want of doors to closets	***	 3
Insanitary closets		 2
Doors of closets not labelled		 2
IN WORKSHOPS.		
Rooms requiring limewashing	***	 15
Insufficient privy accommodation		 7
Defective troughing		 2
Defective Urinals		 3
Bad smells		 3
Dilapidated closets		 3
Defective water closets		 4
Dirty floors, staircases, and closets		 4
Overcrowded workrooms		 2
Total		 64

DISTRICT C.

INSPECTOR JAMES EDWARD FIRTH.

Number of Workshops on Register, 176.

Nature of Defects	240	Number Registered
IN FACTORIES.		
Made-up water closets		 19
Made-up and defective drains		 4
Defective fall pipe drain		 1
Stonewalled drain		 1
Privies to convert to water closets		 - 4
IN WORKSHOPS		
Insufficient closet accommodation		 1
Offensive fumes from gas fires		 2
Dirty floors		 2
Insufficient ventilation		 4
Untrapped lavatory waste		 1
Workrooms requiring limewashing		 12
Closets not screened for females		 1
Dirty closets		 1
Made-up drain		 1
Total	***	 54

DISTRICT D. INSPECTOR ROBERT PICKARD.

Number of Workshops on Register, 80.

Na	Number Registered			
IN	FACTO	RIES.		
Offensive urinal			 	1
Offensive accumula	ations		 	2
Insufficient closet a	accomm	odation	 	_1
Made-up drains			 	2
Offensive closets			 	13
IN V	VORKS	SHOPS.		
Made-up sink pipe		***	 	1
Workrooms requir	ing lim	ewashing	 	6
Defective drain	* * *		 	1
Insufficient closet	accomm	odation	 	1
Dirty floor			 	1
Made-up Drain			 ***	1
		Total	 	30

In consequence of the changes in the staff, and other reasons referred to in a previous paragraph, there was a falling off in the number of nuisances and sanitary defects dealt with during the year, the number shown in the foregoing tables being 186, against 366 for the previous year.

Of these 186 nuisances and defects, 163 were remedied, and 23 remained unabated at the end of the year.

The Factory Inspector reported a number of sanitary defects in connection with factories, workshops, and bakehouses, under Section 5 of the Factory and Workshops Act. Attention was given to these matters, and a formal notice of abatement sent to the Factory Inspector, upon completion of the work, which included the following.

Factories	 8
Workshops	 8
Laundry	 1
Bakehouses	 4

In connection with Section 107 of the Factory and Workshops Act, occupiers were more punctual in sending in their lists of outworkers than previously, and a larger number of lists came to hand than was the case during the previous year, though the number of out-workers reported was actually less than during the year 1906.

This requirement not having appeared to be well understood by many of the occupiers of factories and workshops, the District Sanitary Inspectors were instructed to call their attention to the above section, with the result as shown above.

In all 17 lists were sent in, and the number of outworkers notified was as follows.

	Tailors.	Shoe- makers.	Seam- stresses.	Total.
No. of Outworkers	31	3	3	37

A large majority of the above out-workers are themselves occupiers of workshops and were visited in that capacity. The remainder, who work in their own houses, were also visited, and no cases of infectious disease were discovered in connection therewith, and the premises were otherwise satisfactory.

All the out-workers reported during the year resided in the Borough.

The following is a detailed list of all the workshops on the register in the Borough.

Boot, Shoe, and Clog		Fibrous Plaster Works	3
Makers	151	Joiners and Cabinet	_
Dress & Mantle Makers	97	Makers	59
Saddlers	12	Brush Makers	11
Milliners	60	Provision Merchants	4
Milliners Cotton Doubler	1	Rag Sorters	6
Coopers	2	Rag Sorters French Polishers	13
Coopers Bakehouses	168	Tailors	60
Flock Merchant	1	Marine Store Dealers	
Silversmiths	4	Blacksmiths	22
Whitesmiths		Upholsterers	12
Coach Builders	9	Umbrella Makers	1
Rope Makers		Box Makers	1
Wood Carvers		Surgical Inst'm't M'ker	1
Wool Sorters		Fruit Boilers	1 1
Cork Cutters	9	Paper Maker	1
Gun Makers	2 2	Hosiers and Knitters	20
Carpet Repairers	4	Wheelwrights	
Picture Frame Makers		Painters	12
Wire Worker Basket Makers	5	Plumbers Printers	
Tippers		Sweet Boilers	10
Tinners Locksmiths	1	Tripe Dealer	3 2 3 2
Cutlers	1	Clog Sole Makers	2
Underclothing Makers	12	Belt and Brace Makers	9
Blind Makers	3	Sewing Machine Maker	1
Electrical Engineers	75.	(2) : . 3.5 3	1
Piano Makers		Shirt Maker Watch Makers	11
C M . 1	1	Old Clothes Dealers	2
T) 1.	4	Dottom Molson	
D . TT 31 1		Loothon Cuttons	9
CI 1 117 1	2 2 5	O D 1	2 2 1 4
7D D 1	5	D ·	1
Duogo Woules	2	Designers Metal Engraver	
T 1 '		Doon Dottling	1
TT ' TO 1 3 f 1	11	Hair Drasgara	1 7
M-1'- M-1	3 3 2 2 7 2 2	M + 1 D 1' 1 M 1	7 1 1
31 1 D 1	9	II. 1 - 1 D	1
	2	Herbal Brewery	1
Marble Masons	2	Carpet Beater	1
Shoeing Smiths	9	Chair Maker	$\frac{1}{3}$
Firewood Cutters	2	Photographers	0
Paper Bag Maker	4		

Total number of Workshops, 944.

Bakehouses.

The number of bakehouses on the register was 168, against 167 for the previous year, and of these, the number underground remains the same, viz., 26.

The number of visits paid to the bakehouses during the year was 375, as the following table will show.

Description of Premises	Number on Register	Number of visits made
Wheat bread and muffin bakers, including confectioners	140)	975
Oat bread and muffin bakers	28	375

The condition of the bakehouses in the Borough is now very much better than was the case a few years ago. Several of those which were in an insanitary condition, and also several of those that were underground, have been replaced by new buildings, or by the conversion of more suitable premises into bakehouses.

The largest number of complaints made during the year, as usual, had reference to limewashing, and the number of complaints under this heading was almost double during the year under review, than for the previous year.

In two cases there was an insufficiency in sanitary conveniences; in three cases dirty floors were complained of, and in two cases dirty utensils.

The number of defects reported during the year was 33, and 6 were brought forward from the previous year, making a total of 39, of which 36 were remedied, and three remained unabated at the end of the year,

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

Nature of Defects.	Number Reported.	Number Remedied.		
Brought forward from last Bakehouses requiring lime Insufficient closet accommo	washing		6 22	22
Damp walls Accumulation of rubbish			1 1	4 1
Dirty floors Made-up drain Dirty utensils			1 2	1 2
Defective sink pipe Total			39	36

Ice Cream Makers and Vendors.

The manufacture of this article is now chiefly carried out by Confectioners, and is carried out under more cleanly conditions than was the case when it was in the hands of the itinerant dealer.

Public Health Laboratory.

I have again to report an increase in the amount of work done in the Public Health Laboratory during the year. 95 specimens were examined, against 82 during the previous year.

The following table gives details of the work done.

	Number of	Results of I	Examination.
Disease,	Specimens.	Positive.	Negative.
Diphtheria (Swabs)	. 44	15	29
Do. (Membrane)	. 1	1	0
Tuberculosis (Sputum)	. 27	11	16
Do (Milk from Udder of cow.) 11	9	2
Typhoid (Widals)	1	0	1
Anthrax (Cows Spleen)	. 1	0	1
. Total	. 85	36	49

Besides the above, ten specimens of meat, fish, &c., were examined in connection with the inspection of food.

In connection with the examination for Diphtheria, a much larger proportion of swabs were found to give positive results, in comparison to the previous year. The same was also true with regard to sputum in the case of consumption.

Midwives Act.

The administration of the Midwives Act devolves upon the Health Committee, and in the absence of a Lady Visitor it was found impossible during the year to thoroughly supervise the work of the Midwives.

The time that I was able to devote to this work being limited, I found it difficult to catch them at home when my visits were made, and was thus only able during the year to examine the registers, &c., of eleven midwives. Now, however, that the appointment of a properly qualified lady has been made, this work will be more efficiently carried out than has been the case since this Act came into force.

There are 34 Midwives in the Borough, and it is incumbent upon them to have their names entered in the local register at the beginning of each year, but only 31 sought such registration, consequently there were three who failed to carry out the law in this respect.

One Midwife died, one left the country during the year, and there was one new registration, which gives a nett reduction of one midwife within the Borough.

The following is a list of the Midwives who were registered at the Health Office during 1907.

Name.	Address.
D 11 25	
Buckley Mary Ann	8, Wainhouse Terrace
Firth Margaret	7, Concrete Street, Lee Mount
Crowther Hannah Elizabeth	39, Hammond Street
Ogden Emma	6, Ingram Street
Firth S. A	5, Prince Street
Crabtree Isabella	31, Bright Street
Connew Sarah	23, Clay Street, Hanson Lane
Marsland Emma	16, Cherry Street
Shelley Emelina	67, New Bank
Fielden Louisa	33, Commercial Road
Haslem Sarah Ann	59, Bath Place, Woodside
Halstead Frances Ellen	3, Aspinall Street East
Aaron Hannah	7, Lane Ends, Wheatley
Haigh Matilda	142, Southowram Bank
Sutcliffe Ellen	8, Brickfields, Holmfield
Lake Lucy	14, Kell Lane, Shibden
Wade Hannah	21, Clog Yard
Edwards Sarah	47, St. Stephen St., Copley
Jowett Sarah Alice	27, New Bank
Milner Mary Hannah	18, Malt Shovel Yard
Crossley Hannah Holroyd	25, Fairview Terrace
Smith Clara	34, Beech Hill Terrace
Smith Emma	21, Causeway Foot
Wood Mary Elizabeth	10, Fern Street, Boothtown
Robinson Mary Ann	14, Ashbourne Grove
Birrell Agnes	24, Gladstone Road
Horsfall Frances Ann	8, Dunkirk Street
Greenwood Mary Louisa	13, Kingston Street
Turner Elizabeth	7, High Road Well Square
Wilkinson Ann	18, Elephant Terrace
McRae Elizabeth	30, Boothtown Road

Disinfection.

Owing to the fact that infectious disease was much less prevalent in the Borough during the year under review, the amount of work done under this heading was considerably less than had been the case during the previous year.

The steam disinfecting apparatus is situated at the fever hospital, Stoney Royd, and there were 4,935 different articles of bedding, clothing, &c., disinfected therein.

The number of rooms in private houses fumigated with sulphur or formalin, and disinfected, was 327, against 844 during the previous year, and in connection with the elementary day schools, it was only necessary to disinfect three rooms, in the case of Holy Trinity, Infants' Department, in November last, against 152 rooms, in 19 elementary schools during the previous year.

There were also a number of books from the public and school libraries disinfected in a special apparatus which is provided for the purpose.

There was also a considerably less quantity of disinfecting fluid given out during the year. This is supplied free of charge on application to the Health Office.

Schools and Infectious Disease.

In consequence of the fact that the Borough was much freer from the prevalence of infectious disease during the year under review, there was considerably less interference with the work of the Elementary Day Schools from this cause. It was found necessary to close only one school for a short period, and the infants' department of four others. This closure was rendered necessary by an outbreak of Measles during the last quarter of the year.

The following table indicates the schools that were affected, and their period of closure.

Disease,		Name of School.	Date of C	Closure.	Period of Closure.	
Measles		Haugh Shaw (Infants)	Nov.	18	3	weeks
,,		Warley Road ,,	,,	18	3	,,
,,		Parkinson Lane "	,,	18	3	"
,,		Holy Trinity ,,	,,,	25	4	"
"		Copley	Dec.	16	1 v	veek

It is an undoubted fact that the day schools offer facilities for the spread of infectious diseases, and its influence in this direction during 1907, appears to have been more marked in connection with Diphtheria, than was the case during the previous year, for out of 118 cases reported, 58 were of school age, or about one half the number notified. During the previous year less than one-third of the cases of this disease were of school age.

In the case of Scarlet Fever, out of 89 cases reported, 41 were children of school age, which is also about 50 per cent., and in this respect corresponds with previous years.

The following table gives a list of the schools affected with Scarlet Fever and Diphtheria, and shows the number of cases reported in connection with each school.

Name of School.	Scarlet Fever.	Diphtheria.	Total.
Parish Church	 	1	1
Boothtown	 3	3	6
Haugh Shaw	 4	2	6
Bradshaw	 4	1	5
Sunnyside	 2	2	4
St. Marie's	 	6	6
Moorside	 3	10	13
Holy Trinity	 	6	6
Salterhebble	 	1	1
Battinson Road	 	2	2
St. Joseph's	 	1	1
Ackroyd Place	 2	3	5
Parkinson Lane	 1		1
Lee Mount		2	6
Copley	 3	1	4
Portland Road	 	3	3
Luddenden	 	2	2
Parkinson Lane	 5		5
Queen's Road	 1	2	3
Warley Road	 1	1	2
Pellon Lane	 1	3	4
Caddy Field	 2		2
Christ Church, Pellon	 	4	4
St. Augustine's	 2	1	3
Wainstalls	 1	1	2
Heath Grammar School	 1		1
Salterlee	 1		1
Total	 41	58	99

The Officials of the Education Department have as usual kept in touch with this department, and regularly given us information of children they suspected to be suffering from some form of infectious disease. These cases are all visited, and in this way we sometimes discover cases which otherwise would escape detection.

We shall no doubt be able to obtain even more reliable and extensive information from this source, when section 13 of the Education (Administrative Provisions) Act of 1907 comes into full operation.

Offensive Trades.

The offensive trades under section 112 of the Public Health Act, established in the Borough, are shown in the following table.

Bone Boilers	 2
Blood Boiler	 1
Soap Boiler	 1
Tripe Boilers	 9

All the premises in which the above trades are carried on have been regularly visited and kept under supervision, and we found no cause for complaint during the year, as to the manner in which the owners of these premises conducted their business, except in one case, that of one of the bone boilers.

In this case complaints were made by the occupiers of certain houses situated some distance below the premises concerned. These complaints were to the effect that offensive smells arose from the sewers and drains in the neighbourhood, which received the drainage from the premises referred to above.

This nuisance was remedied by the construction of a new drain from the works affected, and the owner ceased to turn into the sewer certain offensive material, and dealt with it in another way. There appears now to be no cause for complaint.

Miscellaneous Matters.

Besides the regular daily visits paid by me to the Borough Hospital and the Goux Depot, and from time to time during the year to the Smallpox Hospital, and many others for various purposes, I made 19 visits in various parts of the Borough, in connection with suspicious cases of infectious disease.

I made 16 special visits to inspect nuisances that were reported, for the purpose of giving advice theron. They were remedied in due course.

I visited five houses which were found to be overcrowded, and this overcrowding was subsequently abated.

In nine special visits to Northowram, I made a thorough inspection of that ward, and made a report to the Health Committee, at their request, on the condition of the drainage of that portion of the Borough.

An application was received during the year for the establishment of a Knackers Yard at Higher Sunderland. I visited and inspected the premises concerned, and the Health Committee granted permission for their use as such.

I paid several visits to certain furnished rooms, which were found to be in a dilapidated and filthy condition. The Committee instructed proceedings to be taken before the Magistrates in connection therewith, and a Magistrates Order was obtained for their closure until they were made fit for habitation.

The Notification of Births Act has been adopted in the Borough, and its adoption in the first instance met with some opposition from the medical profession. It was pointed out however that the responsibility of notification rested upon the parent, and that if the medical man informed his patients of their legal obligation thereunder, he thereby relieved himself of any responsibility under the Act.

Formal Notices, intimating the adoption of the Act were sent to every member of the Medical Profession, and all Midwives practising in the Borough, and books of notification forms were sent to all Midwives.

The Act is working very satisfactorily under these conditions, and quite 95% of the births are now being reported to the Medical Officer of Health.

The adoption of this Act has necessitated the employment of a Lady Health Visitor, and Miss Watson Wayne has been appointed in that capacity.

In order to assist her in carrying out the work, a voluntary Public Health Union has been formed, under the following constitution and Rules.

CONSTITUTION AND RULES

OF THE

Halifax Public Health Union.

No. 1—The name of the organisation shall be "Halifax Public Health Union."

No. 2.—The membership shall be open to those who are suitable and are willing to work in sympathy with the aims and objects of the Union.

No. 3.—The aims of the Union shall be:-

- (1) To further the scheme adopted by the Corporation of Halifax to prevent infantile mortality, and to ameliorate the conditions of infant life and health, by the formation in districts of the Borough, of committees of ladies, who, by personal visitation at the homes, will endeavour to induce Mothers to nourish their infants in the manner nature intended, or where for any reason this is impossible, assist in spreading a knowledge of the best methods of artificial feeding, and generally give advice, on the care and nurture of children.
- (2) To co-operate with, and assist, the Educational and Health Authorities of the town, in all matters relating to public health.
- (3) To awaken the interest of the people in questions affecting the health of the community; to promote attention to the laws of health, including if possible, the special requirements of consumptive cases.
- (4) To report to the Citizens' Guild of Help, such cases as seem to call for financial or other help.

No. 4.—The control of the Public Health Union shall be vested in an Executive Committee consisting of the Chairman of the Health Committee, the Medical Officer and Lady Health Visitor, and the Lady Superintendents, ex-officio, and seven members who shall be elected at the Annual Meeting of the Union, subject to the approval of the Health Committee. The Committee shall choose its own Chairman and as many Secretaries as may be required. Casual vacancies shall be filled by the Committee as they arise.

No. 5.—The Executive Committee shall meet at such times as may be necessary, and five members shall form a quorum.

SUGGESTIONS AS TO THE

WORK OF THE LADY SUPERINTENDENTS AND LADY HELPERS

OF THE HALIFAX PUBLIC HEALTH UNION.

For the purpose of carrying out Rule 3 (1), the Borough, excluding Illingworth, Warley, Copley, and Northowram Wards, has, for the present, been divided into five districts, viz.:—

- 1.—Ovenden, Pellon, and Kingston Wards.
- 2.—Akroydon and North Wards.
- 3.—Central and West Wards.
- 4.—South and East Wards.
- 5.—Skircoat and Southowram Wards.

To each of these districts, a Lady Superintendent has been appointed, who will nominate for the approval of the Executive Committee as many Lady Helpers as may be necessary, thus forming the District Committees.

The plan of working is simple. There is one official Lady Health Visitor appointed by the Corporation, and she will be the source from which the Lady Superintendents will receive their information. All the notifications of birth will in the first instance go to the Health Office and come into the hands of the official Lady Health Visitor. She will in each case pay a first visit to the home where the birth is notified, and leave a card of direction and advice. It will, however, be impossible for her to pay repeat visits, and here will come in the co-operation of the Public Health Union and the Lady Superintendents and Helpers. To bring this into operation it is proposed that the official Visitor shall, week by week, sort out the notifications and divide them according to the Districts arranged by the Public Health Union Committee.

She will then send to the Superintendent of each of the Districts a list of all the notifications in her District. The Lady Superintendent on receiving her list will allocate to her Lady Helpers the babies whom she may know or consider to come best under the care of one particular Helper. Then it will be the care of the Helper to visit the babies allotted to her. Every Lady Helper will be expected to report her first visit promptly, and other visits from time to time as may be required to her Lady Superintendent. The Lady Superintendent will forward these Reports as received to the Lady Health Visitor. Some infants will be so well placed and cared for, that a very occasional visit just to enquire "How is baby" will be ample. In other cases mothers, whose training has left them ignorant, not only of how to discharge their duties, but even of what maternal duties really are, will need more help and sympathy than the former, and only regular visitation can produce the best effect. Again, ignorance of long standing (perhaps unconscious of itself) in some rare cases will have bred inveterate carelessness. In such cases, if help and sympathy fail, recourse must be had to other agencies than the Public Health Union, and a reference should be made by the Lady Helper to her Lady Superintendent who will report forward to the proper authority. In fact, in every case where the baby fails to thrive, and is not under the care of a private medical man, the aid of the Public Health Department should be invoked promptly.

The Committee of the Public Health Union is constituted as follows.

Counc. T. S. Dodd, Chairman, Health Committee
Dr. J. T. Neech ... Medical Officer of Health
Miss Watson Wayne ... Lady Health Visitor
Mrs. E. N. Whitley ... Lady Superintendents
, C. Smithson ... , ,
, Haddon ... , ,
, E. H. Hill ... , ,

Miss Thompson ... , ,

Miss Wright Mrs. Fred Lee
Mrs. Whitley Thomson Mr. Tillotson
Mrs. Joseph Collinson Mr. A. W. Whitley
Mrs. Ward

The following Ladies have undertaken to act as Superintendents.

DISTRICT.	Name of Lady Superintendent.			
Ovenden, Pellon & Kingston	M. D. M. Miller			
Wards	Mrs. E. N. Whitley			
Akroydon and North Wards	,, C. Smithson			
Central and West Wards	,, Haddon			
South and East Wards	,, E. H. Hill			
Skircoat & Southowram Wards	Miss Thompson			

The Ladies of the Committee have decided to meet monthly, to transact the business of the Association.

Meteorological Observations.

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

In November last, Dr. H. R. Mill, President of the Royal Meteorological Society, in making a tour of the Provinces, for the purpose of inspecting the efficiency or otherwise, of the instruments employed in determining climatic conditions, visited our station at Belle Vue. He expressed general satisfaction with the manner in which the observations are conducted, and found all the instruments quite efficient, with the exception of the Rain Guage, which he recommended should be replaced with a new one. This has since been done.

I may mention that in connection with our station, we have no Sunshine Recorder, nor have we an Anemometer, for registering the velocity of the wind.

The general summary of the observations taken during the year, is given on the next page.

The summer was a wet and cold one, rain fell on a larger number of days, and the amount of rainfall was the largest since the year 1903.

General Summary of Meteorological Observations taken at the Public Library, Belle Vue, from January 1st, 1907, to December 31st, 1907.

By E. Green, Librarian.

LONGITUDE = 1° 62° W. HEIGHT ABOVE SEA LEVEL = 625 FEET. LATITUDE OF STATION = 53° 48' N. 1907-Mean Reading of Thermometer. Mean Weight of a cubic foot of Air. In a cubic foot of Air. Mean Men L Or all Higher. Or all Lowert. Banty 5510 58-5 549-1 62-6 549-1 62-6 549-2 82-5 539-2 81-0 533-0 89-5 529-1 92-7 530-0 97-9 527-1 100-1 530-6 94-7 529-0 74-7 541-2 58-3 540-6 47-7 January
February
March
April
May
June
July
August
September 29·6 4·0 26·9 2·8 29·0 2·9 32·6 2·2 37·0 2·4 41·4 3·4 42·7 2·1 45·7 3·0 39·9 1·3 36·7 1·8 32·9 1·0 5·8 17 5·5 13 5·3 16 7·0 18 7·5 18 8·2 24 6·0 16 5·7 15 5·2 6 6·6 22 6·6 10 6 18 15 14 4 14 5 11 13 The observations have been reduced to mean values by Glaisher's Barometrical & Diurnal Range Tables, and the Hygrometrical results 0 3 1 2 3 14 14 1 1 $\begin{smallmatrix}4\\2\\1\\4\\0\end{smallmatrix}$ 4 1 3 4 4 3 0 0 6 9 1 2 2 2 6 3 5 0 0 1 4 13 9 13 3 7 5 18 12 24 12 1.55 2.31 2.86 2.33 3.09 4.73 2.0 2.83 0.51 8 6 7 5 10 6 4 5 1 3 13 0102151 have been deduced from the seventh edition of Hygrometrical Tables, 2 69882 29 0 2 9 5 3 September October November after corrections for Index errors of the Instruments employed. 4.92 December Annual Means 29:949 1:166 63:7 31:0 32:7 51:2 39:4 11 8 45:5 41:5 0:266 3:0 0:6 85 537:0 77:9 35:5 2:4 2 6 2 4 2 8 9 8 10 6:4

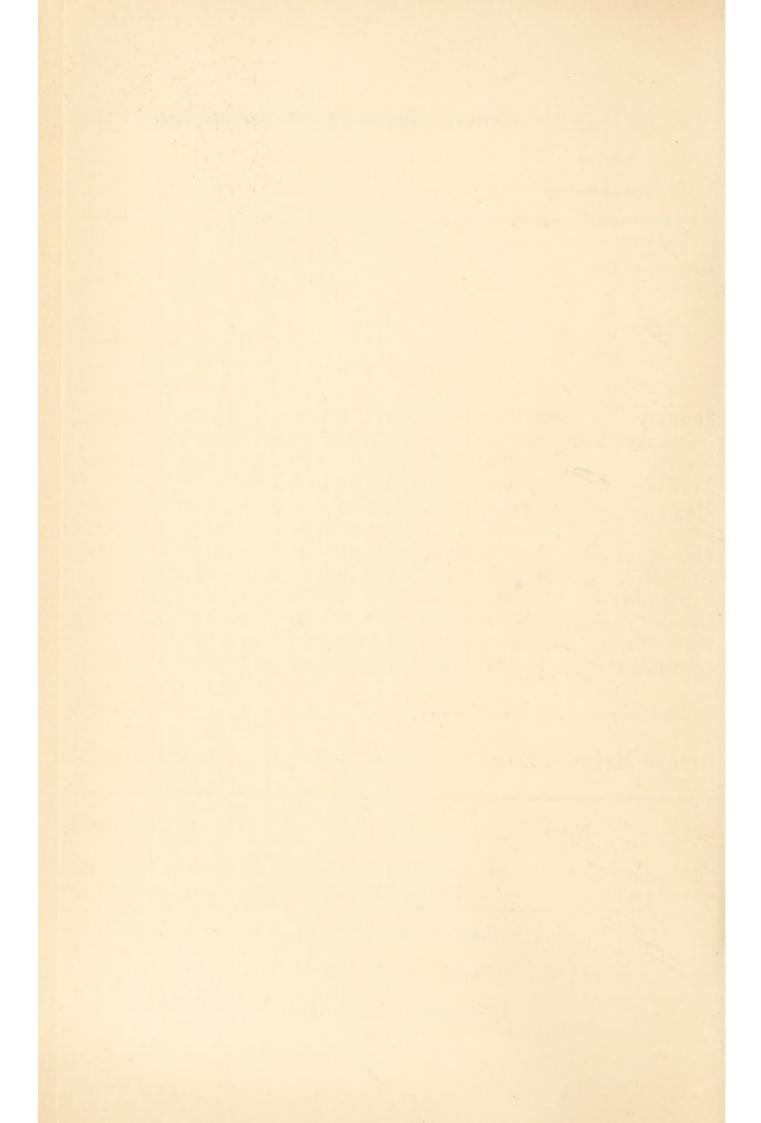
Note.—The Annual Means give the Averages for Twelve Months.

The Mean Readings of the Earth Thermometer, four feet below the surface, were as follows:—January, 40°; February, 40°; March, 40°; April, 43°; May, 46°; June, 49°; July, 51°; August, 54°; September, 53°; October, 51°; November, 48°; December, 42°.

Highest Readings of the Earth Thermometer (54°) were from August 11th to August 29th.

Lowest ,, , (39°) ,, February 12th to February 20th, and from February 28th to March 1st.

Rain fell on 208 days, and the amount collected was 34 inches.



The following table gives the rainfall for the past 14 years.

Year.	No. of Days Rain Fell.	Amount of Rainfall.
		inches.
1894	158	30.31
1895	149	33.78
1896	172	32.02
1897	187	29.72
1898	182	29.49
1899	153	35.33
1900	205	39.68
1901	179	29.41
1902	191	28.03
1903	219	44.25
1904	191	29.32
1905	187	25.94
1906	207	33.84
1907	208	34.00

The Halifax Corporation Waterworks Committee has ten stations for measuring rainfall distributed over the area of the gathering grounds, and the following table shows the amount collected in each case.

HEIGHTS ABOVE SEA LEVEL IN FEET.

	1380	1350	1325	1375	1050	1060	990	815	795	568
1907.	Walshaw Dean.	Midgley Moor,	Warley Moor.	Ovenden Moor.	Widdop.	Castle Carr Lodge.	Ogden.	Ramsden Wood.	Albert.	Gibbet.
January	ins. 1·58	ins. 2·04	ins. 2·08	ins. 2·18	ins. 1·92	ins. 2.01	ins. 1.80	ins. 1·80	ins. 1·41	ins. 1.67
February	1.77	2.48	2.76	2.97	2.05	2.83	2.41	2.66	2.39	2.71
March	3.28	4.08	3.94	4.22	3.28	4.29	3.57	3.65	3.07	3.10
April	2.65	3.03	3.11	3.24	3.39	3.48	2.94	2.59	2.27	2.57
May	3.43	3.43	3.71	3.61	3.74	3.58	3.62	3.41	3.40	3.46
June	5.95	6.27	6.25	6.51	6.98	5.51	5.94	5.12	4.81	4.44
July	3.16	2.82	2.93	3.09	2.95	2.96	2.92	2.73	2.52	2.23
August	3.69	3.71	3.62	3.87	4.10	3.22	3.19	2.72	2.51	2.49
September	·67	•93	.86	1.07	.80	-93	1.05	.63	·64	.53
October	5.83	5.95	6.51	6.39	7.05	6.88	6.06	5.51	5.32	5.58
November	2.69	3.01	3.00	2.86	2.57	3.31	2.88	2.28	2.65	2.69
December	4.41	4.84	4.72	4.94	3.76	4.71	4.32	3.35	3.34	3.41
Totals	39.11	42.59	43.49	44.95	42.59	43.71	40.70	36.45	34.33	34.88

The average rainfall over all the gauges, 1907 ... 40.28 Do. do. 1906 ... 43.19

Difference ... 2.91

From the above table it will be observed that the amount of rainfall on the collecting grounds of the Waterworks was less than that of the previous year, yet at each station the rainfall was greater than in the Borough itself, showing in several cases a fall of 10" above that of the latter.

Sale of Food and Drugs Acts.

There were 206 samples of food and drugs analysed during the year 1907.

The following table, which is worth studying, gives the number analysed, &c., per 1,000 of the population in some recent years.

YEAR	Number of Samples Analyses	Percentage Adulterated	Estimated Population of the Borough	Number of Samples Analysed per 1,000 of the Population
1896	218	3.2	94.764	2.30
1898	211	3.3	96.729	2.18
1900	210	4.7	101.187	2.07
1902	217	8.7	105.978	2.04
1904	209	9.1	107:000	1.95
1906	230	10.4	108.000	2.13
1907	206	4.8	108.500	1.89

The proportion throughout the country in 1905 was 2.65 per 1,000; therefore, 80 more samples would have to be taken to bring the administration of the Acts in Halifax up to the average, though still below most of the towns.

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

ARTICLE.	Total.	Genuine.	Adulterated	Doubtful	Percentage Adulterated.	Percentage Adulterated in whole Country in 1905
Milk Butter Cheese Margarine Pepper Beer All Articles	180 8 5 1 6 6 206	165 8 5 1 6 6	10 0 0 0 0 0	5 0 0 0 0 0	5·5 0 0 0 0 0 4·85	10·5 6·9 2·3 4·8 ·9 2·5

Six classes of food were sampled. No drugs. Last year 11 classes of food were sampled, and 3 of drugs. No water samples have been submitted.

The Select Committee dealing with Butter Adulteration which I referred to last year, issued recommendations resulting in the passing of the "Butter and Margarine Act, 1907."

There has also been passed the "Public Health (Regulation of Foods) Act, 1907." The preamble reads:—"A Bill to enable regulations to be made for the prevention of danger arising to public health from the importation, preparation, storage, or distribution of articles of food."

It gives wide powers to the Local Government Board to make various regulations. These are now being drafted, and it is hoped that amongst other things, standards for preservatives will be incorporated and so give effect to the recommendations of the Departmental Committee of 1900. They will also probably deal with the Milk supply with the object of eliminating tuberculous and uncleanly milk generally.

The Fertilisers and Feeding Stuffs Acts, 1906, came into force January 1st, 1907. This provides for the sampling and analysing of cattle and poultry foods and artificial manures. Each invoice must also contain an analysis of the article, and constitutes a warranty. The Halifax Council have the option of appointing their own Analyst for this work in the Borough, otherwise it is left in the hands of the West Riding County Council.

The Whisky Commission now sitting was instituted in 1907, at the request of the Islington Borough Council who have spent several thousand pounds on prosecuting Patent Still Whiskies.

The result will no doubt be to fix a standard for this article. The formation of a Court of Reference for the purpose of considering and fixing standards and limits, mainly in foods, is likely to become an accomplished fact, in the near future. This is highly desirable, as frequently, in the absence of a standard, it is a costly matter both to prosecute and defend cases in dispute. The whisky case is a notable instance of this.

The Local Government Board Inspector of Foods has commenced issuing reports on various matters of interest. So far we have had them—(1) On the changes in certain meat essences kept in tins. (2) On lead and arsenic in tartaric acid, &c. (3) On imported meat foods of questionable wholesomeness. (4) On the wholesomeness of tripe of home and foreign origin. (5) On vinegar.

These are valuable, and to be highly commended.

With regard to the administration of the Acts the L.G.B. Report says, "The work of detecting offenders is becoming more difficult every year, and efficient sampling

cannot be carried on by the Inspectors without the employment of agents (women and children, men in disguise, and so on.")

PROSECUTIONS.—Of the ten cases of adulteration only two were proceeded against during the year, both milks. Each defendant fined 10/-, with costs 16/-. These are quite inadequate penalties for deliberate fraud.

Borough Fever Hospital.

There were 15 patients remaining in the hospital at the beginning of the year under review, viz.:—January 1st, 907, and there were admitted during that year, 131 cases belonging to the Borough, against a total of 160 during the previous year.

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

Disease	Number Admitted	Deaths	Case Mortality per cent.
Diphtheria Scarlet Fever Enteric Fever Suspect, Isolated	 45 42 43	7 1 7	15·5 2·3 16·2
Total	 131	15	

During the previous year the case mortality per cent. for Scarlet Fever was 6·3, Diphtheria 26·6, and Typhoid 10 respectively.

It will thus be seen that there has been an increase in the deathrate of Typhoid Fever, although the mortality last year, viz.:—6.2, is not excessive when compared with previous years.

It is also satisfactory to note that there was a marked fall, both in the deathrate of Scarlet Fever and Diphtheria, when compared with the previous year.

One of the deaths from Typhoid Fever included in the number above, did not belong to the Borough, he had recently come from America, and evidently caught the disease on board ship.

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	16 13 2 1 15		3 2	17 24 26 29 16	34 15 8 23 23		2 5 5 2 4 3 1 7	69 60 43 45 59
1886 1887 1888 1889	15 3 3 5 4		1	18 18 25 54	24 54 28 33			48 76 66 91
1890 1891 1892 1893 1894	188 340 15	1	1	35 47 17 4 15	39 47 15 1 39		7 6 1	81 101 222 345 70
1895 1896 1897 1898				39 56 32 28	25 30 237 341		1 7 20 3	71 106 272 369
1899 1900 1901 1902 1903	3 3 1 140			38 44 18 30	515 250 597 365	12 7 17	9 43	553 306 633 403
1904 1905 1906 1907	84 57		-	24 22 29 20 43	219 349 246 110 42	25 22 30 45	6	404 486 354 160 131

From the above table it will be observed that during 1907, a smaller number of patients were admitted to the Hospital than during any year since 1896.

I desire to place on record, my appreciation of the manner in which the Matron, Miss Robison, has managed the Institution, and the unremitting care which the Nurses bestowed upon the patients.

COUNTY BOROUGH OF HALIFAX

THE

Sanitary Inspector's Report

FOR THE

YEAR ENDED 31st DECEMBER, 1907.

To the Chairman and Members of the Health Committee.

GENTLEMEN,

I have the honour and pleasure of laying before you for your consideration my Thirty-third Annual Report on the operations of the Health Department for the year ended December 31st, 1907.

Town Hall, Halifax, May, 1908.

HEALTH DEPARTMENT.

Summary of Work done.

Total number of Visits of Inspectors Total number of Visits to H			22605
Total number of visits to i	touses		12000
Furnished Rooms			
Number of Visits to Hou Defective Drainage			2737
Number of Visits to Hou Cleanliness, Overcrowd			740
Number of Visits to Hou Infectious Diseases			1240
Rooms Disinfected			400
Cases removed to the Hospi	tal		131
Infectious Diseases reported			310
Nuisances reported			1968
Nuisances abated			2089
Notices served			660
Letters served (referring to	Nuisances,	&c.)	169
Summonses taken out			4
Smoke Observations taken			467
Old Ashpits altered to Gour	x System		15
Goux Closets registered			97

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 245 complaints remained on the books and in course of removal, since then 1,968 have been registered and 2,089 removed, leaving at the close of the year 124 to be dealt with.

The following table shows the nature of nuisances registered.

Nature of Nuisances.						
Defective Sink Drains				113		
", ", Pipes		***		64		
" " Syphon Tr	raps			39		
", Basement Drain	s			19		
" Yard Drains				36		
" Urinal Drains		***		6		
" W.C. Drains				29		
,, Area Drains				12		
,, Private Street D	rains			3		
Made-up Sink Pipes				25		
" Bath Pipes				1		
,, Lavatory Pipes		***		4		
" Basement Drain	s			42		
" Water Closets				41		
,, Yard Drains				43		
,, Urinal Drains				4		
" Gullies				27		
,, Private Street D	rains			3		
Untrapped Basement Dra	ins			2		
,, Sink Drains	,···			91		
" Area Drains		***		5		

NUISANCES-Continued.

Nature of	Nuisances.		Number Registered.
Untrapped Yard Drains			 22
" Urinal Drains			 2
,, Bath Pipes		•••	 3
,, Lavatory Pipes			 5
Drains not efficiently Trap	ped:		
Sink Drains			 5
Cellar Drains			 7
Yard Drains			 2
Urinal Drains			 1
Area Drains			 1
Sink Drains requiring Disc	connecting		 55
Defective Fall-pipe Drains			 19
,, Fall-pipes			 58
,, Spouting			 75
" Roofing		***	 35
Broken Pot and Iron Trap			 5
Insufficient Supply of Wat			 1
Nuisances from Water in (10
Want of D.			
<i>''</i>			 43
" Smoke	•••	***	 6
,, Swine			 3

NUISANCES - Continued.

Nature of Nuisances.		Number Registered,
Houses Overcrowded	•••	7
" requiring limewashing		15
Accumulations of Offensive Matter	5.5	61
Privies requiring Limewashing		53
Dirty Passages		2
Insufficient Privy Accommodation		25
Offensive Ashpits and Privies		37
" Goux Closets		131
,, Ash Tubs		248
Doors off Closets		58
" Ashes Tub Places		16
Dilapidated Closets		45
Ashpits requiring Re-construction		35
Miscellaneous		120
Convert Goux Closets to Water Closets		7
Cellar Dwelling unfit for Habitation		1
COWSHEDS.		
Defective Drains		18
Want of Light, Room, Air Space, and Ventilation		21
Dilapidated Cowsheds and Floors		8
Cesspools requiring Emptying and Defective		10
Offensive Middensteads		16
Cowsheds requiring Limewashing		18

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NUISANCES—Continued.

Nature of Nuisances.	Number Registered.
FACTORIES AND WORKSHOPS.	- 11
Rooms requiring Limewashing	 15
Insufficient Privy Accommodation	 1
Want of Ventilation	 2
Defective Drains	 3
" Water Closets	 16
BAKEHOUSES.	
Defective Drain	 1
Rooms requiring Limewashing	 6
Untrapped Drains	 1
Total	 1968

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	***	309	120	84	204
February		435	120	125	245
March		377	172	137	309
April		509	153	116	269
May		272	103	75	178
June		405	181	109	290
July		569	149	134	283
August	**	355	137	59	196
September		230	103	58	161
October		288	99	71	170
November		321	96	107	203
December		313	113	58	171
TOTAL		4383	1546	1133	2679

The total number of ashpits cleansed during the year was 4,383, as against 4,930 in the previous year.

15 ashpits with privies have been altered to the Goux system, and ashes tubs supplied in the place of 2 dry ashpits. The above includes Ovenden, Illingworth, Copley, Warley, and Northowram Wards.

TABLE SHOWING THE NUMBER OF ASHPITS WITHIN THE BOROUGH, DECEMBER 31st, 1907.

District.	Wards.		Ashpits with Privies.	Dry Ashpits.	Total.
1	Akroydon and North		41	47	88
2	Ovenden and Illingworth		268	26	294
3	Central and East		32	84	116
4	West and South		11	191	202
5	Skircoat and Southowram		26	19	45
6	Pellon and Kingston		5	82	37
7	Copley		98	35	133
8	Warley		230	22	252
9	Northowram		158		158
	Total		869	456	1325

Goux Scavenging.

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

Month		Number of Closet Tubs Collected.	Loads of Ashes Collected.
January	 	57894	2105
February	 	50101	1669
March	 	52060	1855
April	 	53447	1850
May	 	54524	1836
June	 	52581	1522
July	 	58198	1574
August	 	54907	1536
September	 	53111	1491
October	 	55428	1682
November	 	54880	1757
December	 	51995	1780
TOTAL	 	649126	20657

The above represents 30910 loads of night soil (each load containing 21 closet tubs), as against 31621 and 20181 loads of ashes respectively for the preceding year.

The number of additional closets registered is 97, being a decrease of 65 on the number registered during the year 1906.

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

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

During the year 48 closets have been erected in connection with new property, and 47 have been altered from the old system, and 2 added where the accommodation was previously insufficient.

Streets Scavenging.

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

Wa ds	Number of Lineal Yards Swept	Miles	Yards
East	3121946	1773	1466
Central	1069849	607	1529
South	1180564	670	1364
West	773782	439	1142
North	683842	388	962
Akroydon	388436	220	1236
Southowram	599525	340	1125
Skircoat	223307	126	1547
Kingston	190621	108	541
Pellon	315817	179	777
Ovenden & Illingworth Part swept by Halifax Gang	923528	524	1288
Total	9471217	5381	657

Streets Scavenging.

The subjoined table gives at a glance the work done in this department during 1907.

Number of Streets swept	40162
Lineal yards swept	9471217
Square yards swept	75948178
Number of Streets watered	4065
Loads of Water used for that purpose	5781
Loads of Sweepings gathered	8460
Loads of Snow removed from the Streets	17182
Number of Gullies emptied	205766
Garbage removed from Market Hall	1014
Loads of Ashes and Sand put on Streets	114

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

Birks Hall Tips.

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

Name.		Number of Loads.
Goux Department	 	18564
Highways Committee	 	400
Private Firms	 	2240
Total	 	21204

ANALYSIS OF REFUSE COLLECTED IN THE BOROUGH OF HALIFAX DURING THE YEAR 1907.

	No. of Loads.
From Wet and Dry Ashpits	2679
From Ashes Tubs	20657
From Goux Closet Tubs	30910
Sweepings gathered from the Streets, and Refuse from Gullies	8460
Garbage removed from Market Hall	1014
Horse Droppings from Streets	265
Garbage from Fried Fish Shops	300
Total Number of Loads	64285

TABLE SHOWING NUMBER OF VISITS MADE BY THE MEAT INSPECTOR.

Description of	Number of Visits.			
Public Slaughterhouse	S			1131
Private Slaughterhouse	es			163
Borough Market				528
Wholesale Market				485
Fasting Sheds				283
Potted Meat Houses				353
Tripe Boiling Houses				111
Butchers' Shops		•••		3172
Fried Fish Shops				216
Cowsheds				510
Dairies and Milkshops				204
Bakehouses				298
Other Visits				364
Total				7818

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

Kinds of Food	Destroyed		Quantity in lbs.
17 Carcases of Beef			7960
Beef not in Carcase		···	 792
36 Carcases of Pigs			 4391
Pork not in Carcase			 1644
4 Carcases of Mutton			 365
21 Carcases of Veal			 1199
Veal not in Carcase			 26
55 Rabbits			 113
Fish			 15555
Fruit			 1344
Offals			 5974
Other Foods			 3816
Total			43179

Total amount of Meat and Offal destroyed suffering from Tuberculosis, 12,684 lbs.

Total amount of Meat destroyed, 22,351 lbs.

435 Seizures have been made during the year, 5 by Magistrates Order, and 430 by consent of owner.

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'tes of dense smoke emitted.
Number of Observations taken	467	
Number showing moderate Smoke or nil	} 240	
Number of Observations taken for a period of 60 minutes, each showing Dense Smoke	227	
Number of Observations show- ing Dense Smoke above the Maximum adopted by the Committee	8	
Average number of minutes of Dense Smoke emitted from Chimneys		2.2

The number of observations taken during the year is 467. 8 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 2.2.

Canal Boats.

During the year 1907, 44 inspections of Canal Boats were made, as compared with 49 in the preceding year.

These inspections are made periodically by the Chief Sanitary Inspector.

In all cases where females were on board, proper provision was made for the separation of the sexes. Of the 44 boats inspected, only one woman and child was found on board, and five with women only.

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

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

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

Number	Number	Number	Number	Total.
of Boats	Registered	of Males	of Females	
Inspected.	to carry.	on board.	on board.	
44	314	91	6	97

		-					
			s. d.	9		0	0
CIL		Total.		0 15	ž,	9	9
A			भ	0	costs	-	-
TH	ourt.		d.	9	in pin	0	0
AL	of C	Costs.	oć.	10	including	0 16 0	0 91
HE	Decision of Court.	0	+1	0	inc	0	
. DI	ñ			0	9	0	0
BL		Penalties.	s. d.	0 10 0	10	0	0 10 0
PU T.		Pens	41	0 1	0	0 10	0 1
ROSECUTIONS UNDER THE PU AND FOOD AND DRUGS ACT.							
TI				Jo :	:	Milk water	Selling Milk adulterated with 10% added water
ER		ė.		sion			llter d w
ND	8	Nature of Offence.		possession Fish	1118	Selling adulterated with 4½% added	adu
UND		IO a		posse Fish	raw	ulte % 3	36 ∷
NS A		Natur		in	l pu	a.d.	M 0
TIC		-		Being in unsound	Unsound Prawus	lling	ling
CU				Bei	C	Sel	Sel
OSE				:	:	:	:
PR(me.		=	=		eth
9	*	Defendant's Name.		Quinn	Quinn	John Alleoek	Tom Langstreth
Z		nann				Alle	Can
W O	Dage	Dere		Thomas	Thomas	pu	m m
TABLE SHOWING PROSECUTIONS UNDER THE PUBLIC HEALTH ACT AND FOOD AND DRUGS ACT.				1	E		T
E				:	:	:	:
AB]	-	Date.	1907	18th	18th	1st	lst
T	Ė	9	19	June 18th	June 18th	Dec. 31st	Dec. 31st
				Ju	Ju	Ď	Ď

TABLE SHOWING THE NUMBER OF INFECTIOUS
DISEASES REMOVED TO THE BOROUGH
FEVER HOSPITAL BY THE DISTRICT INSPECTORS, DURING THE YEAR 1907.

	Suspicious Case	Typhoid Fever	Scarlet Fever	Diphtheria	Total
Ovenden			2	7	9
Akroydon		2	8	5	15
North		1	1	3	5
Central		5		1	6
West		-3	4	3	10
South		6	7	1	14
East	. 1	1	1	2	5
Southowram		1		3	4
Skircoat			6	3	. 9
Pellon		3	2	3	8
Kingston		6	5	2	13
Illingworth		9	3	4	16
Copley		2	1		3
Warley			1	2	3
Northowram		3	1	1	5
Out of Borough		1		5	6
	1	43	42	45	

The succeeding table shows four prosecutions as against three in the previous year. The total fines, including costs amount to £3 13s. as against £9 11s.

In consequence of the changes which have taken place in the Department, the number of visits are considerably less than in previous years. Mr. James Archbell, the senior amongst our District Inspectors, broke down in health, and has been permanently laid up since. He has been on our staff since 1881.

In October Mr. John Wood, who had been with us since 1898, left us to become Chief Inspector of Nuisances for Southall. Both inspectors were very attentive and painstaking in the performance of their duties.

On the 28th November the Committee appointed Mr. Fred Teal and Mr. H. F. Froes to the above posts. Mr. Froes declined. Both these men were selected from amongst a number of applicants. Mr. J. G. Walshaw, Plumber, was afterwards appointed.

I again take the opportunity of thanking the Inspectors and the Chief Clerk (Mr. J. W. Jackson), and his staff for the manner in which the duties have been carried out, duties which are yearly increasing by the extensive Sanitary improvements in the Borough, and also by the new acts coming into force.

I am, your obedient Servant,

Chief Sanitary Inspector and Scavenging Superintendent.

APPENDIX.

VITAL STATISTICS OF THE BOROUGH OF HALIFAX DURING 1907 AND PREVIOUS YEARS.

		BIRTHS.		TOTAL DEA	TOTAL DEATHS REGISTERED in the DISTRICT	TERED in the	DISTRICT	Model	Deaths of	Deaths of	NETT DEATHS	
	Population			Under 1 y	Under 1 year of age.	At all ages.	ages.	Deaths	Non- residents	Residents	THE DISTRICT.	STRICT.
YEAR.	estimated to Middle of each Year.	Number.	Rate.*	Number.	Rate per 1,000 Births Registered	Number.	Rate.*	Public Institutions in the District.	registered in Public Institutions in the District.	in Public Institutions beyond the District.	Number.	Rate.*
	2	69	4	9	9	7	00	6	10	11	12	13
1887	94,311	2147	7.22	301	140	1603	16.9	220	33	28	1598	16.9
1898	95,037	2205	23.2	369	167	1751	18.4	235	28	28	1751	18.4
1899	95,767	2229	23.3	363	162	1806	18.8	258	34	30	1802	18.8
1900	98,910	2316	23.4	314	135	1874	18.9	277	42	19	1851	18.7
1901	105,120	2351	22.3	301	128	1726	16.4	294	38	21	1709	16.5
1902	105,950	2225	0.12	324	145	1645	15.5	282	36	25	1634	15.4
1903	106,800	2248	21.0	279	124	1610	15.0	308	54	36	1592	14.9
1904	107,000	2154	20 1	282	130	1662	15.5	303	52	93	1643	153
1905	107,500	2072	19.2	271	130	1651	15.3	319	75	42	1618	15.0
1906	108,000	2070	19.1	242	116	1741	16.1	420	107	40	1674	15.5
Averages for years 1897-1906	102,439	2202	21.5	304	137	1706	16.6	291	49	30	1687	16.5
1001	108,500	1927	17.7	195	102	1655	15.3	377	145	48	1558	14.3
-	THE RESERVE THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE PERSON NA											

* 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.

	- 0	ASES N	OTIFI	ED IN W	HOLE	DISTRI	OT.				TO	TAL C	ASES	NOTI	FIED I	IN EA	CH L	OCALI	TY.					2	NUMB1	R OF	CASE	S RES	MOVE	D TO	HOSP	TAL	FROM	EACI	I LOC.	ALITY	٧.	
NOTIFIABLE DISEASES.		- 1			-Years		1 2		U.			(W).			HIH.					rth	mu						- A			arn ():				4		9		T
	At all Ages.	Under 1.	1 to 5.	6 to 16.	16 to 25.	25 to 65.	65 and aprenda	Oventer Ward.	Akreyd	North Ward.	Central Ward.	West	South Ward.	East Wand.	Southow	Skircont Ward,	Copley Ward.	Pellon Ward	King-tor Ward.	Illingwe Ward.	Northow Ward	Warley Ward.	Orenden Wand	Akroydo Ward.	North Ward.	Central Ward.	West. Ward (v	South Ward.	East Ward.	Southowr Ward (p	Skirceat Ward.	Pellon	Kingston Ward	Hingword Ward.	Copley Ward.	Northean Ward.	Warley	Date of the
Small-pox				***																																		
Cholera			***																								***		***	***		•••			***		3.5	-
Diphtheria including																										•••		***	***									1
Iembranous Croup			33	68	11	6		12	7	9	4	8	8	4	8	9	13	5	16	5	4	6	7	5	3	1	3	1	2	3	3	3	2	4		1	2	2
Erysipelas	36			3	6	25	2	6	4	4	1	2		2	2	4	2		6	1	2																- 17	
carlet Fever	89	2	24	47	12	4		12	12	3	2	7	9	1	2	12	2	8	11	4	3	1	2	8	1		4	7	1		6	2	5	3	1	1	1	1
yphus Fever																																						
Enteric Fever	60		6	15	12	26	1	1	4	2	8	3	6	1	1	5	4	8	11	2	3	1		2	1	5	3	6	1	1		3	6	9	2	3		
Relapsing Fever																																						
Continued Fever																																						
Puerperal Fever	7				1	6				2	3							1	1																***			
Plague					***																																	
Suspicious Case																																						
emoved for Isolation									-	•••							07:												1									
TOTALS	310	2	63	133	42	67	3	31	27	20	18	20	23	8	13	30	21	22	45	12	12	8	9	15	5	6	10	14	5	4	9	8	13	16	3	5	3	

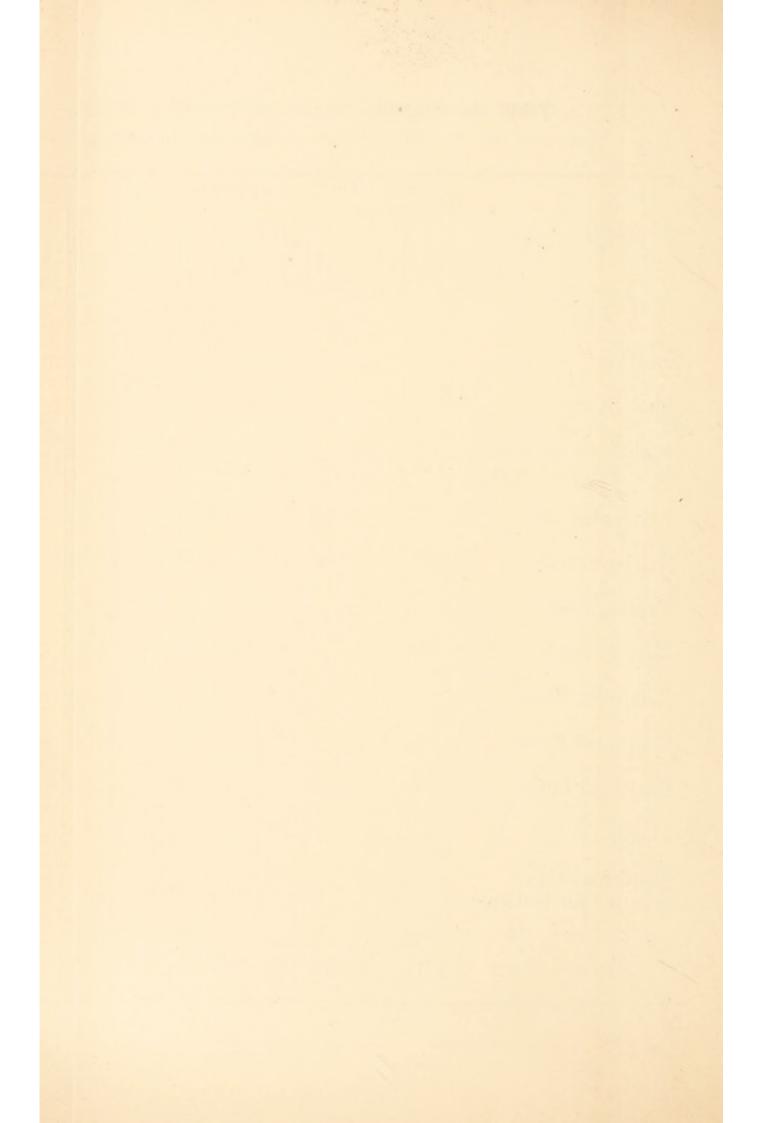
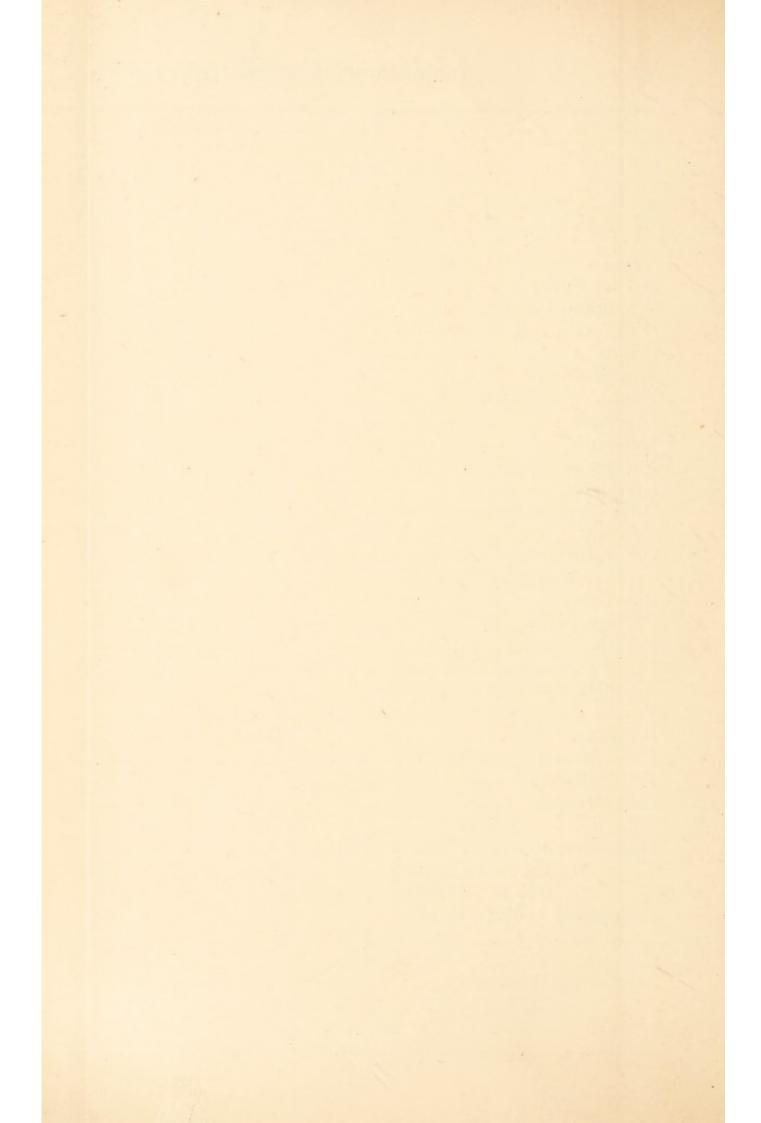


Table showing Causes of, and Ages at, Death during the year 1907 in the several localities of the Borough.

	Da	ATHS IN	on Bure	oxelne 1	o Whoi	a Dista	ICT.					DEAT	HS IN OR	BELONG	тко то І	OCALITIE	s (at A	LL AGES					Total
CAUSES OF DEATH.			AT ST	BJOINED	Aurs.							(w)			rram (H).				d	orth	rram		Deaths in Public Institutions
	At all Ages.	Under 1.	1 to 6.	5 to 15.	15 to 25.	25 to 65.	65 and upwards	Ovenden Ward.	Akreyde Ward.	North Ward.	Central Wand.	West	South Ward.	Exat Ward.	Southow	Skirross Ward.	Copley	Pellon Ward.	Kingsto Ward.	Hingw Ward,	Northor Ward.	Wariey	in the District.
Measles Scarlet Fever Whooping Cough Diphtheria and Membranous Croup Croup Enteric Fever	 2 11 28 1	5 2 6 	 5 13 	 15 1 3				4	 1 2 	1 5 1	1 2 1	4	1 1 1 2	1 1	2		1 1	 4 2 1	 1 2 2	 1 5 1	1	 1	1 9 8
Epidemic Influenza Diarrhoea Enteritis Puerperal Fever Erysipelas	 14 5 4	12 3 	1 1 		1 1	6 1 1 3 	3 1	2	5	3 3 1	1 2 1		1	1	1		1	2		2 1	1 1 		
Other Septic Diseases Phthisis Other Tubercular Diseases Cancer, Malignant Disease Bronchitis Pneumonia	120	 1 17 16	2 5 6 33	8 3 1	1 23 7 1 	4 82 10 82 51 53	5 3 31 77 17	5 5 12 8	4 1 10 11 8	7 2 8 19 12	14 1 12 8 10	7 4 4 14 15	1 7 2 5 16 3	19 4 11 10 18	8 1 9 6 8	1 8 2 11 15 8	3 6 5 3	10 3 8 7 8	1 12 5 18 13 10	11 2 4 7 9	4 1 2 3 4	1 1 1 6 3	35 8 25 26 23
Pleurisy Other Diseases of Respiratory Organs Alcoholism, Cirrhosis of Liver Venereal Diseases Premature Birth	21 13 	3	3	2	2 1	2 7 9 	 4 3 	1 1 1	1 1 	 1	3 1	1 1 	2 2	1 5 3 	1 1		2	3	2 1			1	1 3 1
Discours and Assidents of Destauition	11 169 23 5	1 1 5	3 5	5 1 2	2 6 3 1	9 94 13 3 72	63 2 1 79	9 1 9	2 17 2 5	8 4 2 5	1 17 2 	2 17 1 	14 2 1 12	2 18 1 	1 12 2 1 14	1 5 2 	5 2 1 5	14 1 16	8 1 17	11 1 1 16	1 6 3	1 8 1 9	2 34 27 2 40
,, Digestive System ,, Urinary System Congenital Malformation Convulsions Old Age	54 60 10 25	2 8 19	1 2 6	3	5 2 1	32 42 6	11 14 	7 4 3 4	2 2 :: 5 6	2 4 1 6	2 4 1 20	3 9 2 2 17	4 7 1	3 5 1 13	3 4 1 3 9	7 2 1 2 11	1 2 1 	6 5 3 2 7	9 5 1 9	3 3 .: 3 8	1 4 1 5	1 7	26 19 3 1 44
All Causes		93	29 115	60	9	49	24 477	12 88	21	21	$\frac{23}{140}$	15	12	17	25	13	51	15 117	14	98	45	45	38 377



VITAL STATISTICS OF THE BOROUGH OF HALIFAX DURING 1907 AND PREVIOUS YEARS.

NAMES OF LOCALITIES.	WHILE SHEET	OUNTEN VARD	AMENYOR WARD,	20128 WALD	CENTRAL WARR	WANT WARD	HOUTH WARD	EAST WARD.	SOUTHWEAT WARD	MERCAT WARD	PERSON WARD	KONGSTON WARD.	ILLINEWORIE WALD.	COPIET WARD.	MIREEUWRAN WARD.	WARLEY WARD
TION.	Particular de la constitución de	Population sales seed of the control	Population of the party of the	Proposition of the state of the	Payed store with process of the state process of the store of the stor	Projection and a factor of the second and a second	Projection off- ments in mains of each year. Fields represent. Death of the Age. Death of the Age. Death of the Age.	Properties of a control of a co	Payelon and the Art of	Physicists risk makes in medical of real year. Beths represent. First and Agen Leads. First and Agen Leads.	Distriction reports money in residue of cost years for the years for the years For the For the Age for	Populosis of the following of the follow	Proposition orthogen or the proposition or the proposition of the prop	Population report to market and post of transport to market and post of transport to transport to the population of transport to the post of transport to transport to the post of transport to the	Propertion only and one by your flowly your flowly your flowly of the lates of the lates of the lates and the lates and lates the lates of the lates	Production of the control of the con
1897									7168 206 121 32							
1898		7040172 97 29	7050201103 29	7929/215/131/36	8950 237 163 46	9678174130 30	8610 130 127 24	8586 [36] 40 20	7558 240 155 56	792617712227	1878 179 109 28	8278184 99 18	7246143112 19	Newly		
1890		7020178103 26	7050202131 33	8129 214 140 40	8050 196 152 38	9678191138-26	8700 160 142 20	8600125126-22	7558 226 127 47	8076177127 26	8078 203 114 30	8564188 92 30	7266163122 17	added area.	Newly	Newly
1900		7146174 97 24	7152174 94 19	8129/232/129/33	8950 206 159, 37	9690/200162-39	8712 148 133 15	8620131127 21	7598 236 110 27	8206167102 14	8170/207/142/26	8964/225/153/25	7280150114 26	2570 57 33 4	added area.	added area.
1901		7045155113 16	6540187104 28	8 8165228167 29	7833 171 146 35	9282173133 17	7600 139 111 14	7001 106 172 27	7465 202 134 30	8850187117 24	9138217149 26	10166218116-23	7035150108-14	2905 69 37 4	3265 78 58 9	2830 60 44 5
1902	10395022251634 324															
	106800 2248 1592 279															
	10700021541645 282															
	10750020721618 271															
1906	10800020701674 242	7310146109 17	6700156 99 13	8375211144 29	7835142138 34	9285 167 135 15	7690 110 108 7	7010 123 159 32	7535 169 128 22	9855173152 14	9620/165/115/14	10505193131 12	7230 131 113 13	2590 53 42 3	3295 71 45 6	2865 60 56 9
to 1906	10705021531632 279												Internal Internal			
1907	108500 1927 1558 195	7325118 88 13	6705 161 100 20	6 8375176116 18	7835 147 140 18	9285158134-18	7780 99116 8	7010 91152 20	2550 151 114 22	10015190102 8	9580 161 117 11	10565159131 10	7255100 98 9	3060 68 51 7	3295 63 45 7	2865 43 45 0



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