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of Halifax.

HEALTH DEPARTMENT.



OF THE

MEDICAL OFFICER OF HEALTH,

TOGETHER WITH THE REPORTS OF THE

SANITARY INSPECTOR

AND

THE BOROUGH ANALYST,

FOR THE

53 Weeks ended January 2nd, 1897.

WHITLEY & BOOTH, PRINTERS, ETC., HALIFAX.

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County Boyough



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HEALTH DEPARTMENT.

Report

OF THE

MEDICAL OFFICER OF HEALTH,

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SANITARY INSPECTOR

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THE BOROUGH ANALYST,

FOR THE

B3 Weeks ended January 2nd, 1897.

printed by Order of the Bealth Committee.

Dalifag: WHITLEY & BOOTH, PRINTERS, ETC., CROWN STREET. 1897.

Staff of the Bealth Department.

Chief Sanitary Inspector. DAVID TRAVIS.

> Mbeat 3nspector. JOHN M. CARNIE.

Assistant Sanitary Inspectors.JAMES ARCHBELL.JOSEPH THOMPSON.A. E. BOTTOMLEY.J. E. FIRTH.

Gour Inspectors. WILLIAM PARKER. WALTER SEED.

> foreman Scavenger. NATHAN GARSIDE.

Chief Clerk. JOHN WM. JACKSON.

HARRY WILSON. CHARLES CARLTON.

Matron of the Borough Bospital. MISS ROBISON.

> Disinfector. T. W. BOOTH.

forter. HENRY VICKERMAN.

Medical Officer of Ibealth, and Superintendent of the Infectious Diseases Ibospital. D. AINLEY, M.R.C.S., L.R.C.P., &c.

Members of the Health Committee, 1896-97.

Mayor.

Mr. COUNCILLOR G. H. SMITH.

Chairman.

Mr. COUNCILLOR WEST-SYMES, M.D.

Vice=Chairman.

Mr. COUNCILLOR NAYLOR.

Mr	. Alderman	COE, J.P.,	Mr.	Cour	NCI	LLOR W. C. F. SMITH,
,,	COUNCILLOR	CROSSLAND, J.P.,	,,,		,,	TAYLOR,
,,	,,	BALDWIN,	"		,,	TYSON,
,,	**	FARNELL,	,,		"	WHITLEY, J.P.,
,,	33	HEY,	"		,,	WHITAKER, J.P.

The Committee meets every alternate Wednesday, at 5-0 p.m., at the Town Hall.

County Borough of Ibalifar.

Report of the Medical Officer of Health FOR THE 53 WEEKS ENDED JAN. 2nd, 1897.

To the Chairman and Members of the Health Committee.

GENTLEMEN,

I have the honour to present you with my twentyfourth Annual Report on the Health of the Borough.

Speaking of the year as a whole, it has been somewhat uneventful We have neither had the extreme low temperature of 1895 nor the high temperature of some previous years, either of which considerably affect the death-rate. In other words, a green Christmas and a moderately wet summer, with a low temperature, are important factors in keeping down the death-rate. If it is otherwise, the aged chiefly fall victims from bronchitis, and in the other, infants succumb from disorders of the bowels.

VITAL STATISTICS .- SUMMARY.

Area of County Borough				8,209 acres.
Rateable Value				£378,933.
Population in 1896				94,775.
Do. 1891 Cens				89,832.
Persons per acre, 1896				11.54.
Average number of perso	ns per	r house, 1891	Cens	us 4.6.
Birth-rate, 1896				24.4.
Do. average for pr	evious	s ten years		25.7.
Death-rate, 1896				17.4.
Do. average for p				19.58.
Do. for seven pri	ncipal	zymotic dise	ases	1.06.
Do. the mean, for	or ten	years of zyn	notic	
		96		1.36.
		ne year of ag	e per	
one thous	sand b	oirths		150.6.
Illegitimate births				65.
Average age at death, 18				35.54 years.
Do. d	o. F	emales		38.48 years.
(Infants under o	one ye	ar reckoned o	ne ye	ar.)

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Dependent Example of the state is an analysis		uc			Annual	Rate per Living.	r 1,000	18	۰x.		76T.	.si				sge nder	boffi
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$.SNWCT	Estimate Equipment of the second seco	Births	Deaths.	Births.	Deaths.	Zymotic	rl safaa peaths fr Deaths Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Death Deat	od-llams	Measles	Scarlet Fe	Diphther	niqoodW .dgnoO	Fever.	Distribution	to 1,000 Bi	Rate per c
al Towns 6,425,016 203,319 125,023 311 191 2 07 17,440 16 4,142 1,461 1,519 3,308 1,464 5,557 135 2 135 2 14 27 3 118,006 3,309 1,770 2 363 4,308 3,309 1,706 2 314 17 55 187 138 61 226 2 653 2,927 600 3,292 14 77 3 118,006 5,501 3,009 2,768 3,019 1,766 2 70 120 0 10 20 2 11 7 7 3 118 1 118,006 5,501 3,009 2,768 106 2 101 201 201 201 201 201 201 201 201 2		10,846,971	339,115	208,534				31,550	25	7,839	2,406	4,202	6,245	2,073	8,760	167	1.5
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	cial Tow	6,425,016	203,319	125,023				17,450	16	4,142	1,464	1,519	3,308	1,464	5,537	172	2.1
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		4,421,955	135,796	83,511		18-6	3.14		6	3,697	942	2,683	2,937	609	3,223	161	9.0
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		261,297	8,658	4,268		16.1	3.00	797	4	117	55	187	158	61	215	165	1
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		118,006	3,009	1,706		14.2	1.94	233	:	19	10	29	63	18	010	150	:
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		120,499	3,022	1,975		1.91	1.63	199	:	55	9	19	22.2	14	22.0	135	10
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$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Swansea	98,645	3.061	1.689		16.8	1.18	118	0 01	9	4	10	56	15	25	161	1-1
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	npton	86.530	3,023	1.755		20.0	3.11	274	:	6	21	53	31	36	124	184	1.3
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		501,241	16,603	10,600		20.8	3-57	1,823		307	148	270	378	107	613	197	2.0
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Norwich	108,630	3,400	1,919		17.4	2.33	257	:	117	-11	24	6	21	85	164	1.6
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		198,659	6,212	3,376		16-7	2.97	599		121	20	. 64	51	40	273	187	57
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		229,775	6,758	4,087		17.5	2.47	215		205	28	13	6	19	162	168	14
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		101,770	2,901	1,619		15.7	1.91	197		34	H	20	54	100	19	101	1-0
n_{12} n_{220} n_{221} <t< td=""><td></td><td>109,343</td><td>3,021</td><td>2,133</td><td></td><td>12.00</td><td>16.7</td><td>330</td><td></td><td>011</td><td>200</td><td></td><td>RC</td><td>070</td><td>140</td><td>1110</td><td>P-6</td></t<>		109,343	3,021	2,133		12.00	16.7	330		011	200		RC	070	140	1110	P-6
	100	632,512	22,416	14,017		1.77	10.9	1,938		002	177	101	567	2002	124	168	4 Q.Q
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		120,000	100.01	10.164		1.02	007	1 204	:	2420	LOI	13	260	100	204	176	0.0
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$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		143.442	3.971	2.955		20.3	2.91	425		167	56	35	53	23	16	184	0.3
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		102,805	3,245	1,830		17.5	2.19	229	:	63	4	48	28	13	133	170	14
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		129,459	3,649	2,351		17-9	1.82	238		41	6	10	47	34	16	111	1.2
ald 100,463 2,096 1,682 20.5 16.5 1.60 163 28 19 21 55 13 20.6 1,682 24.3 173 110 105 28 19 21 55 13 20 24.6 87 284 171 220,809 5,939 3,840 255 10.5 1.58 369 1 107 24 17 104 28 88 340 255 10.5 1.58 369 71 492 446 87 284 7,171 4,245 31.9 1889 2.291 1,024 200 102 56 205 101 360 15 140,386 4,873 2,828 342 199 3 32 745 2260 57 51 113 62 202 101 360 57 140,386 4,873 2,828 342 199 3 30 428 143 27 8 76 53 101 360 10 360 98,436 3,583 1,910 358 1991 3 10 310 137 226 18 35 20 103 350 101 360 57 71 104, 28 34 7,171 4,245 31.9 1889 3 30 428 1443 27 8 76 53 101 360 57 71 104, 28 36 202 100 102 56 205 101 360 57 71 104, 28 36 203 101 360 57 71 104, 28 36 203 101 360 57 71 113 65 79 71 104, 28 36 76 53 101 360 57 71 104, 28 37 98 450 139 212,223 6,701 3,981 310 1885 2.98 450 139 226 39 103 33 101 360 57 71 104 58 10 1 360 58 101 100 102 58 100 100 102 58 100 100 102 58 100 102 58 100 102 58 100 102 58 100 100 102 58 100 102 58 100 100 102 58 100 100 102 58 100 100 102 58 100 100 102 58 100 100 102 58 100 100 100 100 100 100 100 100 100 10		113,864	3,776	2,403		20.8	1.86	217		4		12	3	56	129	203	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	ield	100,463	2,096	1,682		16.5	1.60	163		100	19	5	12	13	1	166	0.7
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		94,775	2.337	1,669		17.3	1.10	105	:	16	:	21	8	20	15	149	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		220,809	5,939	3,840		10.5	1.58	369	1	107	5	17	104	20 1	200	143	
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	Newcastle-on-Tyne	212,223	6,701	3,981		18.2	2.08	450	•	139	26	39	103	3	011	100	

Population.—The Borough is divided into Twelve Wards, and the following are the Areas and Estimated Population of the Divisions in the middle of 1896

WARI	os.	Acres.	Population.	Number of Persons to an Acre.
Southowram		 777	7470	9.6
Skircoat		 513	7821	15.2
East		 191	8590	44.9
South		 296	8570	28.9
Kingston		 238	7140	30.0
West		 86	9629	111.9
Pellon		 241	7760	32.1
CENTRAL		 82	8875	108.2
North		 168	7830	46.6
Northowram		 582	6927	11.9
Ovenden		 531	6925	13.0
Illingworth		 4504	7227	1.6
Total		 8209	94764	11.5

Births.—The number of births registered within the Borough during the 53 weeks ended Jan. 2nd, 1897, is 2,329, composed of 1,175 males and 1,154 females, giving a birth-rate of 24.5. This is an increase of 1.2 upon the rate of 1895, but 1.4 below the mean rate of the preceding ten years, 1886-95. See Table on page 20. 65 births are returned as illegitimate, against 73 and 51 in the two preceding years. This number is 2.8 of the total births, against 3.4, 3.6, 3.4, and 2.3 of the four previous years. The birth-rate reached its lowest point in 1894, when it was 22.9. Whether the improvement of the last two years will continue it is difficult to forecast. It has been noted, however, that with cheap commodities and a prosperous trade, an impulse is given to the marriage-rate, and this is followed as a rule by an increase in the birth-rate.

In the 33 large towns dealt with in the Registrar General's Weekly Returns, the mean birth-rate in 1896 is 30.7 of the estimated population, and ranges from 20.5 in Huddersfield, 24.7 in Brighton, to 34.2 in Sunderland, 34.4 in Wolverhampton, 35.8 in Gateshead.

As the vaccination of infants is in the hands of the Board of Guardians, it is carried out according to the divisions of the Union, and as the Borough is not one of the exact divisions, I append the returns of the whole of the Union, from which will be seen that only 4.2 per cent. of the children born are successfully vaccinated.

DISTRICT.	Births.	Successfully Vaccinated.	Unsuscep- tible to Vaccination.	Died Un- vaccinated.
Brighouse	 485	26	1	64
Elland	 465	13	0	62
Halifax	 1363	57	3	197
Luddenden	 123	0	0	13
Northowram	 612	14	0	102
Ovenden	 323	9	0	35
Rastrick	 289	18	0	35
Hipperholme	 160	35	0	13
Southowram	 277	1	0	35
Sowerby	 484	29	2	49
Totals	 4581	202	6	605

Royal Commission of Vaccination.—In connection with this subject, I may state that the Royal Commission which was appointed in May, 1889, to enquire into this question, issued their final Report in August of last year.

During the seven years they have been sitting the Commission have taken and weighed an enormous amount of evidence, with the result that the beneficial merits of efficient vaccination as a preventative of smallpox are emphatically vindicated; although certain amendments of the present law are shown to be necessary with the view of securing a more complete enforcement of vaccination and re-vaccination, and greater efficiency in the performance of the operations than at present, whilst at the same time relieving, as far as the public safety will allow, those who have genuine conscientious objections to the practice.

Deaths.—The deaths registered within the Borough in the 53 weeks ended January 2nd, 1897, numbered 1,667, comprising 863 males and 804 females. The totals for the three previous years being 1,591, 1,522 and 1,803 respectively. The death-rate for 1896 is equal to 16.5 per 1000 of the population, against 17.3, 16.3 and 19.3 respectively, in the three years 1893-95, and is 3.6 below the mean rate for the ten years 1886-95.

In the 33 large towns, dealt with by the Registrar-General in his weekly returns, the death-rate in 1896 equalled 18.9 per 1000 of the estimated population, and ranged from 14.2 in Croydon, 15.7 in Derby, and 16.1 in West Ham, to 22.6 in Manchester and Salford, and 22.7 in Liverpool. Infant Mortality.—Of the 1,667 deaths in the Borough in 1896, 351 were of infants under one year of age, being a decrease of three on the previous year. Infant Mortality, measured by the proportion of deaths under one year to registered births, is equal to 150 per 1000, against 158 and 137 in the years 1894-5.

In the 33 large towns the rate of Infant Mortality in 1896 averaged 167 per 1000 births, and exceeded the rate in Halifax by 18. It will thus be seen that we compare favourably with other towns. The figures of the other Yorkshire County Boroughs are : Leeds 169, Bradford 143, Sheffield 173, Hull 173, and Huddersfield 166. See Table 1, page 20.

TABLE SHOWING NUMBER OF BIRTHS AND BIRTH-RATES IN EACH QUARTER OF 1896.

1896.	Males.	Females.	Total.	Birth rate per 1000 living.
1st Quarter	 267	307	574	24.2
2nd ,,	 292	289	581	24.5
3rd ,,	 292	264	556	23.4
4th ,,	 324	294	618	26.0

Mortality at Groups of Ages.— The 1,667 deaths in Halifax last year included 524 of children under five years or 30.7 per cent. of the total deaths; between the ages of 5 and 15 years 52 deaths occurred, or 3.1 per cent.; between 15 and 25 years 74 deaths took place, or 4.4 per cent.; 499 between 25 and 60 years, or 29.9 per cent.; and at 60 years of age and upwards, 518, or 30.0 per cent.

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In Table 2 are given the rates of Mortality that prevailed in 1896 among the persons estimated to be living in each of the above-mentioned age periods as shown by the Census of 1891. In the same Table are inserted similar rates of Mortality in previous years for comparison. The death-rate of children under five years of age was 62.0, 50.7, and 56.5 per 1000 living at those ages in the years 1893-5, and 55.9 in the year under review, which is only 0.5 above the mean of the decade 1886-95. The rate of Mortality at the next age period 5-15 which was 2.6 and 2.1 in the two previous years fell to 1.8, between the ages 15-25 the rate is 4.4 as against 4.8 and 5.8 in 1894-5. Among persons aged 25-60 years the rate is 15.6 against 14.5 and 17.3 in the two preceding years. Among persons aged upwards of 60 years the rate of Mortality is equal to 85 0 per 1000 living at those ages, the mean for the last decennium being 87.2.

Causes of Death: Zymotic Diseases.—The 1,667 deaths in Halifax during 1896 included 100 which were referred to the principal zymotic cases, against 122, 127, and 157 in the three preceding years. These 100 deaths are equal to 6.0 per cent. of the total deaths, and to an annual rate of 1.5 per 1000 of the population, against 1.7, 0.9, and 1.3 in the years 1893-5. In the ten years 1886-95 the mean zymotic death-rate in Halifax was 1.4. It is a source of gratification to find that Halifax among the 33 large towns of England and Wales has the lowest zymotic death-rate for 1896.

Small = Pox.—The year under notice has been entirely exempt from small-pox, but from the almost utter neglect of vaccination on the part of the Board of Guaadians, I am afraid if the disease gets a footing in the midst of a practically unvaccinated community, it will give an object lesson on a par with Gloucester, which will be neither advantageous nor creditable to our town. In May of last year your Committee directed a letter to be sent to the Board of Guardians calling their attention to the subject of the neglect of vaccination, which was received and deferred for six months—practically ignored. It is one of the grosest anomalies of Local Government that the Sanitary Authority of a town should be called upon to pay in some cases thousands of pounds for the neglect of another elected body. The remedy is obvious. If the Municipal Authority have to pay the piper, in fairness they ought to call the tune.

Measles.-It is not usual to have two epidemics of measles in one year, but last year had that honour. In the month of May the disease was very prevalent, so much so that the School Board closed two of their largest schools. In October there was a very extensive recrudescence of the malady. On both occasions the districts most invaded had the special attention of the Sanitary Inspector, who also delivered large numbers of bills, giving detailed instructions for the general management of those attacked. These measures have had a very beneficial effect, for the deaths only numbered 15 out of a great many hundreds attacked. The subject of the notification of measles has been taken up during the year at the urgent request of both the Chairman and myself. The arguments in the Report of Dr. Theodore Thompson on the subject to the Local Government Board have been used both for and against its adoption. Other business of pressing import having very fully occupied the attention of the Committee for some time the subject of the notification of measles has been allowed to fall into abeyance for the present. The deaths for

the four preceding years are 64, 5, 32, and 9. The average for the ten years 1886-95 is 35.3.

Scarlet Fever.—During the year under notice 44 cases of scarlet fever have been notified to the Health Department, which is the lowest number on record, the four previous years being 256, 150, 114 and 52 respectively. The case mortality in 1894 was 4 in 114, in 1895, 6 in 52, but in 1896 not a single death was registered. This is exceedingly gratifying, and no doubt points to the mildness of the attacks which we now meet with. Whether this is due to the want of insanitary pabulum, or to a worn-out condition of infective material is difficult to say. See Tables B and 8.

Diphtheria.—During the year 37 cases of this complaint have been notified, against 29 and 43 in the two preceding years. 16 deaths have been registered, equal to a case mortality of 43.2 per cent. Respecting the sanitary surroundings of these cases see page 13.

Whooping Cough.—33 deaths were recorded of this disease in 1896, against 9, 32, 21, and 24 in the four preceding years. In the month of May this disease was very prevalent along with measles, and, no doubt, the coincidence increased the mortality. The mean of the ten years 1885-96 is 21.8.

Fever.—This term includes typhus, enteric, simple continued and ill-defined forms of fever, to which 22 deaths are referred against 16 in the previous year and 5 and 12 in 1893-4 respectively. The average for the last ten years is 13.2. The percentage of deaths to notified cases is 20.5 against 26.3, 17.4, and 9.6 respectively, in the three preceding years.

Diarrhœa, including Dysentery, caused 14 deaths during 1896 against 53, 38, and 4 in the three preceding years respectively. The mean for the ten years 1886-95 is 20.8. No doubt the decrease in the number of deaths from bowel disorders in 1896 is due largely to the circumstance, that the mean temperature of the summer quarter never exceeded 60 degrees Fah., which was registered in the last week in July, and continuously fell through the months of August and September.

TABLE SHOWING THE SANITARY CONDITIONS AND PROBABLE CAUSES OF THE NOTIFIED CASES OF THREE PRINCIPAL ZYMOTIC DISEASES.

	d.	Drai	nage	Venti	lation				А	Prob			
Diseases.	Number of Cases notified.	Good	Bad	Good	Bad	Old Midden.	Goux Closets.	Water Closets.	From a Cold.	From a previous Case in the same House or School.	From Defective Drains.	Contracted from House or Workshop Visiting.	No Trace.
Scarlet Fever Deaths, 0	50	44	6	50		5	32	3	1	6	4	10	29
Typhoid Fever Deaths, 22	108	82	26	108		2	90	7	12	8	22	7	59
Diphtheria Deaths, 16	39	31	8	39		2	31	1	2	2	9		26
Total Total Deaths, 38	197	157	40	197		9	153	11	15	16	35	17	114

Taking the old middens at 712, the w.c's. at 4,300, and the Goux (pail) closets at 15,000, the percentage of cases to one or other will be as follows :—Old Middens, 1.12; w.c's., 0.25; Goux closets, 1.02. In 1895 the figures were, old middens, 1.5; w.c's., 0.38; Goux closets, 0.74 respectively. **Respiratory Diseases.**—Under this heading are included bronchitis, pneumonia, and pleurisy, which together total 392 deaths, being a decrease of 4 on the year 1895; of this number 138 are under five years of age, and 254 over that period. The totals for the four preceding years were 490, 321, 297 and 396 respectively.

Phthisis or Pulmonary Consumption caused 161 deaths, against 134, 135, 141 and 185 in the preceding 4 years, 13 of these occurred under five years of age, and 148 of persons upwards. Among the other causes of death in 1896 one each were referred to rheumatic fever and erysipelas, and 139 to heart diseases, this latter disease shows a decline on the previous year of 48 deaths, the numbers for the three preceding years being 128, 163 and 185 respectively.

The deaths referred to different forms of violence within the Borough are 42, against 45, 39, 39 and 38 in the years 1892-5. These 42 deaths are equal to 2.5per cent. of the total deaths from all causes, and to a rate of 0.44 per 1000 of the population. For further details see Table 4.

During the year 1896, 88 deaths were registered on the authority of the Coroner's certificate being inquest cases. These are equal to 5.2 per cent. of the total deaths against 5.1 and 5.3 in the preceding two years.

The causes of 29 deaths in Halifax last year were not certified by a registered Medical Practitioner or by the Borough Coroner. The proportion of uncertified deaths is equal to 1.7 per cent. of the total deaths, against 4.3, 4.5, and 2.0 in the preceding three years. 1896 shows a marked improvement on previous years, and is now below the average of other towns. Influenza.—This infectious disease is evidently come to stay, although in a less fatal form than in previous years. During 1896 ten deaths are registered from this cause, against 30, 19, 15, 22, and 37 in the five preceding years. In Table A is seen the distribution of deaths in the Wards of the Borough. There is no marked incidence in any Ward and four of them are exempt. The deaths at the higher age periods come out again as in former years, of the ten deaths three occurred between the ages of 25-60, and 7 at 60 years and upwards.

The Borough Fever & Small-pox Hospitals .--On reference to Table 6 it will be found that on January 1st, 1896, the Fever Hospital contained five patients. 106 have been admitted during the year, 56 of typhoid fever, 30 of scarlet fever, and 20 others. The total deaths numbered 9, and 18 remained in the Hospital at the end of the year. The death-rate per cent. of the cases admitted during the year is 8.5, against 14.8 in the previous year. The mean for the last 24 years being 13.38. The case mortality would be reduced even still lower if we had the patients at an earlier stage of their complaint. Some are kept at home until all hope of recovery is gone, and in some cases die in a day or two after admission. But from the fact that 55.2 per cent. of the notified cases are sent to the Hospital, we see that the good work done for so many years by that Institution is becoming appreciated, and the majority of those who unfortunately are attacked not only are willing, but prefer to be so treated.

The changes in the *personnel* of the Staff have been few during the year. One Nurse, after seven years' faithful service, has been married, and the vacancy filled up. The present Staff consists of five nurses, four servants, porter, and matron (Miss Robison), who continues to discharge her duties for the seventh year, to the entire satisfaction of the Committee.

The religious needs of the patients have been generously attended to, as in former years, by the visits by the Rev. W. L. Stock, Curate-in-Charge of the Caddy Field Mission (in whose district the hospital is situated) and also by Mr. Hartley, one of the town missionaries. To both these gentlemen the thanks of the Committee are due for their gratuitous and much appreciated services.

Now that you have been obliged to utilise the Small-pox Hospital for scarlet fever patients, the town is practically without accommodation for small-pox. I would therefore urge upon you the necessity of making provision as rapidly as possible, for, although there is no present appearance of an epidemic of small-pox, several cases have recently been reported in a neighbouring town, and when that is the case one is never safe in the midst of a practically unvaccinated community.

Midsummer Fair.—As this is not only an annual institution, but brings with it a large number of travelling showmen and others, the Inspectors made the usual parole and visited every caravan in search of infectious diseases, but found them entirely free.

Congresses.—In August last year Mr. Alderman Coe, J.P., Councillor Dr. Smith, and myself represented our town at the Congress in Glasgow of the British Institute of Public Health. In September, the Chairman, Councillor Dr. West-Symes and the Chief Sanitary



NOTES:

The Black curve represents the Number of Deaths per Week, January 4th, 1896, to January 2nd, 1897.

The Red curve represents the Mean Temperature for Weeks ending January 4th, 1896, to January 2nd, 1897, as deducted from the readings of the Maximum and Minimum Thermometers.

The figures shew, in the case of the Black curve, the Number of Deaths, but in the case of the Red curve, degrees of Temperature.



Inspector performed the like duties at the Congress of the Sanitary Institute, held at Newcastle. Reports of both these meetings were printed and presented to the Committee and the Council. In the first report attention was called to the paper of Professor Ramsey, in which he showed how the inhabitants of a smoke ladened town suffered in various ways in consequence, but very little has since been done in our town to improve matters in this respect. The Report of the second Congress *inter alia* called attention to the desirability of making measles a notifiable disease, but after several meetings the objections to such a course seemed pretty strong and the subject was allowed to drop.

Water Supply.—I mentioned in my last Report that Mr. Paskin, the Waterworks Engineer, and myself, had accompanied Dr. Houston, from the Local Government Board, on a survey of our sources of water supply, chiefly with a view of ascertaining the amount of acidity present. I am sorry to say that Dr. Houston has not yet reported.

At a recent Congress of the German Society of Public Health the question of water supply came prominently before them, when it was urged that a periodical and frequent examination, both chemical and bacterological, should be made of the water supplied, and also laid great stress on the necessity of repeated inspections of the sources and surroundings.

The Meteorology of the year, so unlike that of 1895, has not been remarkable in any direction. The highest average wave of temperature registered was 62[•] degrees Fah. for the week ending July 30th, and the lowest 35 degrees in the third week of December. See Chart.

Excreta Removal.—Whether as a Municipality we are moving with the times, in reference to our mode of excreta removal, has been mentioned several times during the year.

Twenty-five years ago, many who were in the front rank as Sanitarians favoured the adoption of the "pail" system, and as a vast improvement on the old privy-middens no sane man can doubt. But we cannot shut our eyes to the fact that after all these years so few towns have adopted it, that it may be said not to have "caught on." The reasons no doubt are various, the chief one probably being the cost, but in the evolution of Sanitary science the question is now being asked whether the pail system ought not to give place to, what some people call, more scientific methods in the interests of the health of the Borough. In the consideration of the three chief modes of excrement removal, the old privy-middens may be at once struck out.

Which then of the other two—the "pail" and the "water-carriage"—offer the most satisfactory solution of this important problem. Halifax, now for 25 years, and some half-dozen other towns for shorter periods, have been using the "pail" system, and in every case the zymotic death-rate has been so largely reduced, that they are amongst the lowest of the large towns. There can be little doubt I think that the adoption of the "pails" in these towns has produced these beneficial results. The question is, can we improve upon them by a water carriage system? Quite a number of Municipalities think they can : hence Leicester, Birmingham, Manchester, Nottingham, Huddersfield, and Oldham are making attempts to lesson the number of their "pails" and increase their number of water closets. But from GENERAL SUMMARY OF METEOROLOGICAL OBSERVATIONS TAKEN AT THE PUBLIC LIBRARY, BELLE VUE, FROM JANUARY 1st, 1896, TO DECEMBER 31st, 1896, BY J. WHITELEY, CHIEF LIBRARIAN. LATITUDE OF STATION = 53° 43° N. LONGITUDE = 1° 52° W. HEIGHT ABOVE SEA LEVEL, 625 FEET.

1896.	Atmos in M	sphere		Tempe	rature o	f Air in 3	Jonth.		Me Tempe			Vapour		e of 100.	t of f Air.	Mean R Therm	ending of ometer.			Wind,			Cloud.	R	ain.	
							Mean.				rce.		bie foot Air.	degree aidity ion =	weight foot of	.E g	8		Rela	sive pr	roport	ion of	int of	E		REMARKS.
Month.	Mean.	Range.	Highest.	Lowest.	Range.	Of all Highest.	Of all Lowest.	Daily Rango.	Air.	Dow Point.	Elastic Fo	Mean.	Short of Saturation.	Mean of Hun Saturati	Mean v a cubic f	Maximum Rays of Su	Minimum Grass.	Estimated Strongth.	N.	E.	S.	w.	Mean amot	No. of dayn is fell.	Amount Collected.	THREE
February .	ins. 29.609 29.573 29.036	1.044	0 53.7 53.8 55.0	0 2610 2213 3210	0 27.7 31.5 23.0	0 44*2 43*4 47*6	0 36-1 34-8 36-9	0 81 86 105	0 40:0 38:5 41:2	0 36-8 36-7 35-9	ins. -218 -221 -210	grs. 2.5 2.5 2.4	grs. 0.4 0.2 0.6	89 91 82	grs, 549 550 537	0 52°1 56°3 76°5	0 34.0 32.1 33.5	0.5 0.6 0.7	6 6 7	373	563	17 10 18	84 94 71	11 8 21	ins. 1.06 1.54 5.90	The observations have been reduced to mean values
April May June	29.431 29.566 29.241 29.329	0.862 0.592 0.640	60.6 74.7 77.2 77.2	$ 32.0 \\ 32.6 \\ 45.6 \\ 42.5 $	24.6 42.1 31.6 34.7	52°5 59°8 66°7 66°0	40.4 43.5 49.9 51.8	12°1 16°3 16 8 14°2	45-2 50-5 57-2 59-8	38:3 41:1 48:5 48:9	-232 -259 -342 -345	2·7 2·9 3 8 4·1	0.8 1.2 1.4 1.5	79 71 73 73	540 537 523 524	88'6 99'5 109'3 102'2	35.4 38.5 45.5 47.6	0.6 0.5 0.6 0.6	9 14 11 8	8945	2 1 5 5	16 7 10 13	7.0 6.3 7.0 6.7	13 3 13 10	1'30 0'47 2'84 1'42	by Glaisher's Barometrical and Diurnal Range Tables,
August September October	29.335 29.036 29.036 29.476	$ \begin{array}{r} 0.712 \\ 1.652 \\ 1.290 \end{array} $	64.8 65.2 60.3 49.2	42:4 38:4 29:2 24:7	22:4 26:8 31:1 24:5	61-2 58-8 57-3 43-5	50°2 48°5 38°2 35°9	11.0 10.3 9.1 7.6	54.5 52.5 42.2 39.4	47.1 48.5 38.4 35.2	-323 -340 -233 -206	3.6 3.8 2.7 2.4	1'2 0'6 0'4 0'5	76 86 87 86	528 525 536 547	98:3 85:5 66:6 51:7	44-8 45-3 34-3 31-9	0.6 1.2 0.8 0.4	4 6 11 10	565	3 6 5 6	12 12 10 9	7.6 8.0 7.4 7.7	14 22 23 12	1.41 6.27 4.60 1.46	and the hygrometrical results have been deduced from the
December .	29 059	1.462	52.0	25.0	27.0	41-3	34.8	6.2	38-3	35-7	-209	2.4	0.3	91	541	45.8	31.1	0.2	7	7	6	11	8.7	22	3 75	seventh edition of Hygro-
Annual Mean	ns 29-311	1.134	62.0	32.7	30.3	52.7	41.8	10.9	46:4	40.9	-262	3-0	0.8	82	537	77.7	37.8	0.6	8	6	5	12	7.6	172	32.02	metrical Tables, after correc-
Annual Means between Latitudes 53° & 54°	29.713		69-9	30-8	39-1	54 6	42.6	12 0	48.0	42.1	-273	3 2	0.8	80	541	81-4	37'2	0.9	7	6	6	12	6.2	185	29.65	tions for Index errors of the Instruments employed.

Note.—The Annual Means give the Averages for the Twelve Months. The next lower line of numbers gives similar Averages for Stations between the 53rd and 54th Parallels of Latitude, between which Halifax lies; these numbers have been adapted from those given by Mr. Glaisher in his Meteorological Reports, published in the Registrar-General's Quarterly Returns.



several reports which have been published there does not appear, from a health point of view, much advantage in the water carriage system over the pails; but both show a great improvement over the old middens. This question, like many others, has to be considered in relation to local circumstances. Suppose we assert that the water carriage system is the best all round, we are at once confronted with circumstances where its adoption is next to impossible. Take Ovenden for example, there we are bound to provide some other, but take the town as a whole, I think the time has come when the use of waste water or slop closets may be adopted in connection with such property as is occupied by the artisan population. At the same time we must be aware that the more complicated the system, the less smoothly will it work. There is much to be said in favour of both the systems we are considering. If Halifax had been an entirely water carriage town in February, 1895, when the temperature was below zero, we should have been in a most deplorable state.

Following my report is one by the Chief Sanitary Inspector, and also one by the Borough Analyst. From these several reports I think you will find that every branch of the Health Department has received adequate attention, and being probably the chief cause of Halifax showing the lowest zymotic death-rate in 1896.

I have to thank Mr. Harry Wilson, Clerk in the Office, for valuable help in compiling the tables, and the Committee for its continuous and generous help.

I am, Gentlemen,

Your obedient Servant,

D. AINLEY, Medical Officer of Health.

	Population.	Births.	Deaths.	Rate per 1	Rate per 1000 living.	Deaths of Infants under
				Births.	Deaths.	One Year to 1000 Births.
:	72987	2454	1632	9.88	22.4	156
:	73845	2338	1589	2.18	21.5	155
:	74713	2247	1519	30.1	20:3	167
	75591	2162	1491	28.6	19.7	150
	76479	2262	1786	9.67	23.4	180
	77325	2231	1508	28.9	2.61	133
:	78287	2255	1775	28.8	22.7	173
:	79207	2249	1660	28.4	0.17	149
	80138	2282	1571	28-2	9.61	154
	81080	2192	1667	25.7	20.6	176
	82034	2277	1827	27.8	22.3	173
:	83109	2160	1877	26.0	. 52.6	172
	84097	2169	1642	25.8	19.5	163
::	92000	2254	1591	24.5	17-2	174
	92800	2128	1522	22-9	16.3	135
:	93813	2186	1803	23:3	19-2	158
	95400	2329	1667	24.4	17.4	150

	T. T.			Des	th-Rate per 100	Death-Rate per 1000 living in each group.	group.	
	1 cars.		All Ages.	0-5.	5.15	15-25.	25-60.	60 and upwards.
880	:	I	22.4	70.3	:	:	:	72-9
881			21.2	0.89	::	:	:	9.12
1882			20:3	62.9	4:3	0. 2	13.7	74-2
883	:	:	19.7	49.6	5.1	5.7	14.0	1.06
884		:	23.4	0.02	5.2	5.3	16.3	85.5
885	::	:	2.61	50.3	4.9	5.2	14.7	83.3
886		:	22.7	2.89	5.3	0.9	3.4.6	92.4
881		:	21.0	54.8	4.0	0.9	16.2	88.2
888		::	9.61	55.4	3.6	3.9	13.0	93.8
889	:		20.6	2.69	3.5	9. †	15.3	84.2
890	•••	:	22.3	1.69	4.3	0,9	17.5	94.3
891		:	22.6	63:3	4.2	9.9	16.4	9.96
892			2.61	54.0	. 3.9	7.7	13.6	89.2
893		:	17-2	62.0	2.1	3.0	10.2	9.92
894		:	16.3	2.09	2.6	4.8	14.5	74.9
895		:	19-2	2.99	2.1	5.8	17.3	92.9
896		:	0.21 2.2	6.99	1.8	4.4	15.6	85.6

Death-rate per 1000 living from these Diseases.	1.56	2.19	1.24	62.0	2.41	1.13	2.22	1.24	1.13	89.1	1.27	16.1	1.51	1.1	6.0	1-29	20.1
Principal Zymotic Diseases.	114	162	93	60	184	87	175	66	94	128	104	159	127	141	81	121	100
Diarrhea and Dysentery.	22	9	25	x	38	20	38	23	14	16	13	27	1-	38	4	53	14
III- Defined Fever.			:	5	67	67	21		1		1	:	::	:			:
Enteric Fever.	19	21	22	26	22	12	13	12	6	22	13	22	1-	12	5	17	22
Typhus.			1	1	1	1	I		::	:	I	::	:	:			
Whooping Cough.	10	17	11	-	000	12	11	11	35	67	15	58	6	32	21	24	33
Diphtheria Whooping Typhus.	4	4	5	60	69	-1	16	9	60	2	12	67	14	18	11	12	16
Scarlet Fever.	44	102	21	6	28	32	6	33	21	L=	24	36	1-		4	9	
Measles.	15	9	11	1	57		85	14	10	02	25	39	64	5	32	6	15
Small-pox.	:	9				1		::	1	1	:	::	19	33	4	::	
	:	:	:	:	:	:		:	:	:	:	:	:		:	:	:::
Years.	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896

WARDS.	,	 At Home.	Work Out.
			1
OVENDEN		 30	1
NORTHOWRAM		 25	6
NORTH		 38	9
CENTRAL		 58	4
WEST		 38	
SOUTH		 32	. 1
EAST		 32	3
SOUTHOWRAM		 47	5
SKIRCOAT		 42	1
PELLON		 36	1
KINGSTON		 38	1
ILLINGWORTH		 23	
WORKHOUSE		 	5
INFIRMARY		 6	
HOSPITAL		 	
		*445	37
Total, 1895		 454	41
,, i894		 418	42

Small Pox All Ages. Onder a Small Pox 0.1. Scarlet Fever 16 3 Diphtheria 15 Whooping Cough 33 15 Typhus 33 15 Simple and Undefined Fever 33 12 Simple Cholera Diarhoea, Dysentery Furthered <
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: : : : : : : : : : : : : : : : : : :
· : : : : :
: : :
: :
105
49
41
135
:

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1000	109	30	-	1		55	80	;		102	37	-	•			I	51	9	10	6	1		IS	::		-	•	: "	6	:			-			:	1	L-	519
	-	10	P	H	::	35	75			30	65	4	2		:-		I	13	16	10	>		10		9			: -	- 0	1		1	61			* 1	õ	0	502
				:		-	1	-		:	-					:	:	0		•			-	:				: -		-	57	:	1		-	-		:	75
				:		-1	3	2	1 -	1	4	:			:-		- ,	1		-		:-	-						1	: '	-		1				::	:	50
			-	19	1	51	-	14	110	10	35	1	1	00	-		+ 0	57				: •	1					-	4 G	1								:	178
n		::				51			10	10	30	-		6	-		÷ •	4		9		-							:	:		_						:	348
n	103	30	9	80		16	166	16	108	001	183	1-	0	12	11	19	10	31	26	14			- I.		9	1		16	10		0	51	5	:	10		0	10	1673
	::	:	-			:	::			:	:		:				:							:	::		:				:	:					••••	:	
::					Custom	Incin	sease	::			:	::	::					:	::	::			:	;		::					:	::		::		:	:	:	
Congenital Manufiliation	Uld Age, Senile Marasmus, &c	Apoplexy	Epilepsy	ions	eas of Rusin and Nomone	and a	is of Circulatory System, Heart Di	Croup	itis	Duantionia	DI BIIIOIIIAI T	Fleurisy	Other Diseases of Respiratory System	Dentition	Sore Throat—Quinsv. Larvingitis	Enteritis	Davitanitis	T	Diseases of Liver	Other Diseases of the Digestive System	Diseases of Lympathics, &c.	Diseases of Urinary System	Diseases of Consulting Sectors	A address of Mellerauly Constraints and Such	Accidents of Unid-Dirth	Diseases of Locomotive System	Diseases of Integumentary System	-	Burns and Scalds	Drawning	Sufficiention		-		S (Drowning	Otherwise or not d	-	unuenza	Toral

D

TABLE 6.—SHOWING THE NUMBER OF CASES ADMITTED INTO THE BOROUGH INFECTIOUS DISEASES HOSPITALS DURING THE YEAR 1896.

	Small-pox.	Typhoid.	Scarlatina.	Others.	Total.
Cases remaining in Hospital January 1st, 1896		4	1		5
Cases admitted during the year		56	30	20	106
Total		60	31	20	111
Recoveries		52	31	19	102
Deaths		8		1	9
Cases remaining in Hospital December 31st, 1896		6	11	1	18

TABLE 7.—SHOWING THE NUMBER OF CASES ADMITTED SINCE OPENING, AND TOTAL DEATHS AND RATE PER CENT.

	Small-pox.	Typhus.	Typhoid.	Fever.	Scarlatina.	Others.	Total.
Number of Cases admitted since the opening		29	580	62	540	131	2024
Number of Deaths since the opening		14	124	8	41	13	271

Verdicts.	Jan.		Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
	_		-						-					
Accidental Deaths			4	63	1	1	\$	67	9	57	¢1	61	39	29
tural Causes			00	10	00	4	61	1		0	61	00	8	46
and Drowned		-		:	:		::			4				-
Suicide by various means	ms		:		:	1	0	67		::	1		00	10
ner Verdicts			:		::		:	:		:	1	•	-	51
Murder	:		:	:	:	::	:	:		:	:	:	:	:
Total 1896	:	9	1	12	4	9	8	20	6	5	9	5	15	88
., 1895	12	01	6	9	8	6	t-	6	9	9	8	6	1-	96
" 1894	13	~~~	1-	-1	9	5	9	10	4	00	9	**	11	78
18		2	51	, ç	4	5	9	61	60	00	00	10	9	56
., 1892		~	1	11	10	4	1-	9	9	9	~	9	9	69
,, 1891	00 	~	s	60	4	9	1	9	9	Γ	**	67	00	46
,, 1890 -		4	8		e0	00	4	Ŧ	8	00	00	00	9	56
" 1889	°° ::	~	4	5	9	ē	5	t-	63	20	1	9	60	52
	::	~	9	67	1	5	8	33	60	¢1	00	1	61	39
		10	60	4	60	00	4	00	67	00	**	00	67	38
				1-	5	5	1	9		4	4	67	-	43
	• ···		9	4	8	4	\$	5	60	00	5	20	ero	53
-		-	9	5	8	s	10	9	20	Ç	9	6	Č	22
1883	6	~	5		4	4	10	00	1-	9	1	x	Ŧ	46

DE(POI	TIFI RD 0.31 PULA	ED 1 OF 1 Ist, ATIC	'HE 1896, N A	IEDI BOR AN	CAL DUGI D T THE	H, F(HE	CTIT	HE Y E P	ERS ZEAR ER (IN I	ASES EACH DING . OF THE
	Small-pox.	Cholera.	Typhus Fever.	Enteric Fever.	Scarlet Fever.	Continued Fever.	Puerperal Fever.	Diphtheria.	Relapsed Fever.	Total.	Rate per centage of Population.
Ovenden				4	5			4		13	0.18
Northowram				10	1	2	1	6		20	0.28
North				6	2			1		9	0.11
Central				12	2		1			15	0.16
West				7	1		1	5		14	0.14
South				8	1			3		12	0.14
East				8	7			4		19	0.55
Southowram				• 4	8			1		13	0.12
Skircoat				8	5			3		16	0.20
Pellon				9	3			4		16	0.30
Kingston				12	1		1	2		16	0.25
Illingworth				17	8			4		29	0.40
Total, 1896 ,, 1895 ,, 1894 ,, 1893 ,, 1893 ,, 1892 ,, 1891 ,, 1890	 16 346 159 	 5 1	···· ··· ··· ··· ···	105 58 52 69 56 99 67	52 114 150 256 429	3 3 5 9 14	4 6 6 4 5	29 43 57 71 23	···· ···· 2 2 2	638 558 573	0.12
		PUI	BLIC	1NS	TITI	UTIO	NS.				
Workhouse Infirmary Royal	•••				4					4 5	
INFIRMARY					2					2	

TABLE 9.—DEATHS OCCURRING WITHIN THE BOROUGH AMONG PERSONS NOT BELONGING THERETO.*

The followin	o are incl	luded in	the Infir	narv '—		
TODMORDEN						1
	man		•••			
SOWERBY BR.	IDGE				•••	5
HIPPERHOLMI	Ε					2
QUEENSBURY						2
WARLEY	•••					2
HEBDEN BRID	OGE				•••	3
LUDDENDEN						2
SHIBDEN IND	USTRIA	L SCH	OOL			1
WEST VALE						1
BRIGHOUSE						2
HALIFAX (R.I).S.A.)					1
GREETLAND						1
SIDDAL						1
SOYLAND						1
	Total					25
The followi	ng are inc	cluded i	n South W	Vard :		
WARLEY						1
SOWERBY BR	IDGE					1

* The List of Persons furnished to me of those who have died out of the District, who belonged to the Borough, number 21, so that the totals will not be greatly disturbed.
| TABLE 10.—SHOWING RA
CHILDREN UN
FROM CHIEF I
THOUSAND BI
CENT. OF TOT | DER
NFA
IRTH | ONE N
NTILE I
IS, ANI |) RATE | F AGE
S PER |
|--|--------------------|-----------------------------|-----------------------------|--|
| | | | 1896. | |
| DISEASES. | | Total
Deaths. | Rate
per 1000
Births. | Rate per
cent of
total
Deaths at
all ages. |
| From all causes | | 351 | 150.7 | 21.0 |
| Lung Diseases | | 85 | 36.4 | 5.0 |
| Marasmus, Wasting Diseases | | 42 | 13.7 | 2.2 |
| Premature Birth, Inanition | | 68 | 29.1 | 4.0 |
| Diarrhœa | | 12 | 5.1 | 0.2 |
| Whooping Cough | | 15 | 6.4 | 0.8 |
| Convulsions | | 68 | 29.1 | 4.0 |
| Scrofula, Tuberculosis | | 5 | 2.1 | 0.5 |
| Dentition | | 9 | 3.8 | 0.2 |

	F TH	E POPU		EACH QUA	
1896.		Zymotic Diseases.	Consumption.	Lung Diseases including Consumption.	From all Causes.
1st Quarter		0.8	1.2	4.8	19.6
2nd "		1.3	1.4	4.9	17.1
3rd ,,		0.2	1.8	1.8	14.6
4th ,,		1.5	1.9	4.9	18.9
Whole Year		1.02	1.69	4.13	17:59



TABLE OF DEATHS IN THE BOROUGH OF HALIFAX SANITARY DISTRICT CLASSIFIED ACCORDING TO DISEASES, AGES, AND LOCALITIES, AND SHOWING ALSO THE POPULATION OF SUCH LOCALITIES, AND THE BIRTHS THEREIN DURING THE YEAR ENDING JANUARY 2ND, 1897.

		ages,		BI	RTHS	-3.					T FRO			CSES,					,	IORTA	LITY I	ræost s	CBJ03	NED C	AUSES	, visn	INGU18	HING	DRATI	IS OF	CHIL	DREN	UNDER	Five	YEAR	RS OF	AGE.			
ames or Locair depted for the purp d these Statistics; I ie Institutions b heren as separate ic tics. 1	rizs oses Pub- cul-	Population at all at the middle of 1896.	Malcs. SS	Females.	Total	Illegitimate.	Birth Rate per 1000 per annum.	de At all Ages.	dar	1 and		9	5 6	5 5	to 60 and 10	11	55 Small-por.	to Measles.	# Scarlatina.	U Diptheria.	the Croup (not	L Whooping Cough.	Typhus.	the Renteric or Typhoid.	Doubtful.	Diarrhou and Dysentery.	to Cholera.	to Rheumatic E Fever.	Erysipelas.	& Pysemia.	& Puerperal	53 Ague.	S Phthisis.	Boundatie, Pasuments, and Pleuriny.	g Heart Disease.	fi Influenza.	68 Injuries.	65 Other Diseases.	20 Total.	Con Death Rate
venden Ward		6925	95	80	170	5	2 25	2 5	0	21	14		3	27	25	Under 5 Supwards		2			1					1			"1						ii			21 22		12
orthowram Ward		6927	88	86	174	4	6 25-	1 10	10	26	8	2	3	32	29	{ Under 5 5 upwards				1		2	• • •			4					i			10				25	66	
orth Ward	***	7830	121	114	233	5	7 30	0 15	16	42	18	4	2	40	20	1 Under 5 5 upwards		4			1	10											ïi	17		2		27	65	
entral Ward		8875	106	104	210	0	8 23	6 16	18	47	16	6	8	45	46	Under 5		2		1	2	6				2						 1	110	18 23				32 51	104	
Vest Ward		9629	90	111	20	1	3 20	8 14	18	18	21	3	6	52	48	J Under 5 5 upwards		3		1		2											19	11 19				22 54	39 109	
outh Ward		8570	102	91	19	3	2 22	5 14	13	22	12	2	6	37	64	Under 5 5 upwards		1		i	1	2												7	12		2	22 58	34 109	
ast Ward		8590	84	80	16	4	9 19	0 11	19	25	12	4	1	48	29	Under 5 5 upwards		ï		ĩ		1											3	10				21 39	37 82	19
outhowesm Ward		7470	110	118	8 22	8	3 30	5 11	10	38	16	5	5	27	19	Under 5 5 upwards				ĩ	2	3				3		•					2 0	12				32 28	55 55	14
kircoat Ward		7821	85	8	17	4	2 23	2 15	27	31	13	3	10	23	47	Under 5 5 upwards						ĩ					•						1	15 20	1			23 87	44 83	16
ellon Ward		7760	107	10	21	5	7 27	7 11	0	29	9	7	5	31	29	j Under 5		1		2	1	3											20	11				19	39	
ingston Ward		7140	102	8	9 19	1	1 26	7 11	5	29	12	6	3	29	36) 5 upwards Under 5					22	 3				ï								17				28 36	41	16.
llingworth Ward		7227	71	7	4 14	5	20	0 11	4	14	10	2	7	29	52) 5 upwards Under 5				<u>"</u> 1						··- 2	***						10	13				12	24	15.
Vorkhouse			14						13	5			3	39	62) 5 upwards J Under 5		•••										1		•••			11	22 3	14			39 4	90	
nfirmary									15	4	7	7	8	37	10) 5 upwards) Under 5																		29 4	14		2	50 4	104	
korough Hospital									0		1	1	4	3) 5 upwards) Under 5 5 upwards					1												3	3	5		16	34	64 1 8	
TOTAL		94764	1175	115	4 232	9	65 24	5 16	67 3	51	73	52	74	499	518			15		12	13	33		1		13	*						13 148		1 138		2	286 534		17
Deaths occurring among persons	out	ride th onging	e D theret	ivisio lo	o a	r D	istrict									Under 5 5 upwards																						 21		
leaths occurring among persons	wit	hin the	Di	visio	n o	r D	istrict									{ Under 5 5 upwards																						27		



TABLE OF POPULATION, BIRTHS, AND OF NEW CASES OF INFECTIOUS SICKNESS, COMING TO THE KNOWLEDGE OF THE MEDICAL OFFICER OF HEALTH, DURING 53 WEEKS ENDING JANUARY 2nd, 1897, IN THE BOROUGH OF HALIFAX; CLASSIFIED ACCORDING TO DISEASES, AGES, (B)

				ON AT ALL		NEW	CASI	S OF 3	OF T	ess in he Mi	EACH IDICAL	LOCAL OFFIC	ITY, C	MINO HEAD	TO TO	HE KN	OWLEE	OE	Nus	INER O	or suc	THE CAR	SES R.	EMOVE REATN	D FRO	M THE	IR HOLATION	MES I	N THE PITAL	SEVE	RAL
NAMES OF LOCALS	ries adopte	d				1	2	3	4	5	6	7	8	9	10	11	12	13	1	2	3	4	5	6	7	8	9	10	11	12	13
for the purpose of thes Public Institutions be	e Statistics	12	Census	to	Registered Births.	-					F	EVERS					_					22		F	EVER	-					
separate localities (o.)			1891. (b.)	middle of 1896. (c.)	(d.)	Small-pox.	Scarlatina.	Diphtheria	Membranos Croup.	Typhus.	Enterie or Typhoid.	Jontinued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.		Small-pox.	Scarlatina.	Diphtheria	Membrano Croup.	Typhus.	Enteric or Typhoid.	Continued.	Relapsing.	Peerperal.	Cholern.	Erysipelas.	Measles.	
Ovenden Ward			6469	6925	175		5	4			4									3											
Northowram Ward			6463	6927	174		1	6			10	2		1						1				10	2					1	
North Ward			7416	7830	235		2	1			6									2				2							
Central Ward			8658	8875	210		2				12			1										8							
West Ward			9017	9629	201		1	5			7			1						1				4							
South Ward			8085	8570	193		1	3			8													2						1	
East Ward			8417	8590	164		7	4			8									5				1							
Southowram Ward (H)		7042	7470	228		8	1			4									2				3							-
Skircoat Ward			7232	7821	174		5	-			8									5	2			4							
Pellon Ward			7332	7760	215		3	4			9													4							
Kingston Ward			6732	7140	191		1	5			12			1							1			3							
Illingworth Ward		•••	6969	7227	145		8	4			17									3				3							
Workhouse					24		4										14			4	.,									14	
Infirmary					***		2	5			3									2											
Borough Hospital														***																	
TOTALS			89832	94764	2329		50	35			108	2					14			28	4			46	2					16	

The Notification of Infectious Diseases has been compulsory since 1882.

The Borough Fever Hospital is marked $({\,{\rm H}})$ and is situate in Southowram Ward.



County Borough of Ibalifar.

THE

Sanitary Inspector's Report

FOR THE

Year ending 31st December, 1896.

To the Chairman and Members of the Health Committee.

GENTLEMEN,

I have the pleasure to submit for your consideration my Twenty-second Annual Report on the operations of the Health Department for the year ending December 31st, 1896.

TOWN HALL, HALIFAX,

January, 1897.

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HEALTH DEPARTMENT.

Summary of Work done.

Total number of Visits made by the District	t Inspec	tors	34705
Total number of Visits to Houses			8276
Number of Visits to Houses with reference Drainage	to Defe	ective	2595
Number of Visits to Houses with reference to Overcrowding, &c	Cleanl		873
Number of Visits to Houses with reference Diseases	to Infec	tious	747
Rooms Disinfected			312
Cases removed to the Hospital			106
Infectious Diseases reported			199
Nuisances reported			3532
Nuisances abated			3588
Notices served			1283
Letters served (referring to Nuisances, &c.)			267
Summonses taken out			6
Smoke Observations taken			751
Old Ashpits abolished			1
Old Ashpits altered to Goux System			60
Goux Closets registered			348

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 449 complaints remained on the books and in course of removal, since then 3532 have been registered and 3588 removed, leaving at the close of the year 393 to be dealt with. The following Table shows the nature of nuisances registered.

	Nature of N	luisances.		Number Registered
Defective	Sink Drains		 ·	112
"	" Pipes		 	11,3
,,	" Syphon Trap	ps	 	107
,,	Basement Drains		 	113
"	Yard Drains		 	100
"	Urinal Drains		 	7
,,	W.C. Drains		 	84
,,	Area Drains		 	59
"	Private Street Dra	nins	 	41
Made-up	Sink Pipes		 	115
,,	Bath Pipes		 	3
,,	Lavatory Pipes		 	5
"	Basement Drains		 	137
"	Water Closets		 	122
"	Yard Drains		 	89
,,	Urinal Drains		 	18
,,	Gullies		 	76
,,	Private Street Dra	ins	 	45

	Nature of Nuise	ances.		Number Registered
Untrappe	d Basement Drains		 	16
,,	Sink Drains		 	39
,1	Area Drains		 	19
,,	Yard Drains		 	84
**	Urinal Drains		 	4
,,	Bath Pipes		 	10
,,	Lavatory Pipes		 	11
Drains no	ot efficiently Trapped-	-		
Si	nk Drains		 	3
Ce	ellar Drains		 	17
A	rea Drains		 	2
Ya	ard Drains		 •••	9
Sink Drai	ins requiring Disconne	ecting	 	78
Defective	Fall-pipe Drains		 	38
,,	Fall-pipes		 	88
	Spouting		 	118
,,	Roofing		 •••	41
Broken P	ot and Iron Traps		 	8
Insufficie	nt Supply of Water to	Closets	 	10
Nuisance	s from Water in Cellar	r	 	58
33	Want of Drains	s	 	27
,,	Smoke	-	 	26
,,	Poultry		 	3

NUISANCES—Continued.

Nature of Nuisances.			Number Registered
Nuisances from Pigeons			2
" Rabbits			5
" Swine			6
Houses Overcrowded			33
" Unfit for Habitation			5
" Requiring Limewashing			123
Accumulation of Offensive Matter			122
Privies requiring Limewashing			135
Ashpits requiring Reconstruction			41
Insufficient Privy Accommodation			96
Offensive Ashpits and Privies			17
,, Goux Closets			54
" Ash Tubs "			53
Doors off Closets			56
,, Ashes Tub Places			20
Dilapidated Closets			56
COWSHEDS.			
Want of Light, Room, Air Space and V	Ventilatio	on	157
Dilapidated Cowsheds and Floors			14
Cesspools requiring Emptying and Defe	ective		28
Offensive Middensteads			26
Cowsheds requiring Limewashing			198

NUISANCES -- Continued.

NUISANCES-Continued.

Nature of N	Juisances		Number Registered.
FACTORIES AND	WORI	KSHOPS.	
Rooms requiring Limewashin	ng		 76
Workrooms Overcrowded			 3
Want of Ventilation			 5
Miscellaneous			 146
		Total	 3532

The above lists do 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	 587	71	217	288
February	 410	57	193	250
March	 174	75	83	158
April	 215	73	89	162
May	 504	108	189	297
June	 475	83	270	353
July	 449	69	148	217
August	 457	101	152	253
September	 284	28	119	147
October	 414	85	115	200
November	 528	72	357	429
December	 230	63	112	175
Total	 4727	885	2046	2931

The total number of Ashpits cleansed during the year is 4727, as against 4696 in the previous year. 60 Ashpits with Privies have been altered to the Goux System, 1 abolished, and Ashes Tubs supplied in the place of 19 Dry Ashpits. The above includes Ovenden and Illingworth Wards.

TABLE SHOWING THE NUMBER OF ASHPITS WITHIN THE BOROUGH, DECEMBER 31st, 1896.

The Borough is divided into six Districts, each District including two Wards.

District.	Wards.		Ashpits with Privies.	Dry Ashpits.
1	Northowram and North		 62	53
2	Ovenden and Illingworth		 457	33
3	Central and East	• • •	 52	115
4	West and South		 35	232
5	Skircoat and Southowram		 67	49
6	Pellon and Kingston		 11	42
	Total		 684	524

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Goux Scavenging.

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

	Mon	th.	Number of Closet Tubs Collected.	Loads of Ashes Collected.
January			 48857	1791
February			 38428	1488
March			 40985	1487
April			 46491	1358
May			 44992	1527
June			 48584	1401
July			 50537	1208
August			 45743	1146
September			 48503	1286
October			 49590	1450
November			 46444	1546
December			 48393	1626
Tota	l		 557547	17314

The above represents 26549 loads of night soil (each load containing 21 closet tubs), as against 22761, and 17314, and 16239 loads of ashes respectively for the preceding year.

The number of additional closets registered is 348, being a decrease of 1 on the number registered during the year 1895.

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Goux Scavenging.

The following Table shows the number of Goux Closet Tubs registered each year since the commencement of the Goux System.

7	čear.		Number of Closet Tubs.	Number Registered during each year.
		1		
1871			1109	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			4858	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

During the year 256 closets have been erected in connection with new property, and 50 have been altered from the old system, 3 substituted for water closets, and 30 added where the accommodation was previously insufficient.

Birks Hall Tips.

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

Names.	 	Number of Loads.
Waterworks Department	 	160
Goux Department	 	18080
Electric Light Department	 	560
Gasworks Department	 	11600
Private Firms	 	6812
Total	 	37212

Streets Scavenging.

The subjoined Table gives at a glance the work done in this Department, with the previous year's figures.

	1896.	1895.
Number of Streets Swept	32204	26921
Area in yards	47627132	40346623
Number of Streets Watered	9762	10055
Loads of Water used for that purpose	11850	10965
Loads of Sweepings gathered	5364	4926
Loads of Snow removed from the		
Streets	41	14331
Number of Gullies emptied	175903	133784
Number of Street Drains flushed	592	709

During the year 400 loads of garbage have been removed from fishmongers, fried fish shops, and greengrocers.

	1883	1883 1884 1885		1886	1887	1888	1889	1890	1891	1892	1893	1894	ç681	1896
Number of Streets swept 20878 22320 22457 20621 24234 25901 27149	20878	22320	22457	20621	24234	25901	27149	28244	28869	27019	30700	29800	26921	32204
", watered 4141 5008	4141	5008	5814	3592	3858	4157	8620	5337	5404	8016	7822	5382	10055	9762
Loads of Water used		5671 6561 7023	7023	4798	5430		6255 12442	6877	6598	8057	8648	5969	10965	11850
" Sweepingsgathered 6247	6247	5692	5692 4546	4471	4855	4609	4574	6882	5102	4832	6571	5184	4926	5364
Number of Gullies emptied 39422 87317 74080 68094 74512 76661 89852 100103 122611 120004 144019 153411 133784 175903 1000000	39422	87317	74080	68094	74512	76661	89852	100103	122611	120004	144019	153411	133784	175903
Loads of Snow removed from the Streets	red 1274	617	:	29200	2843	8031	972	884	291	14564	8444	1215	14331	41
Drains flushed	:	:	130	302	943	789	306	523	1278	1822	2211	1006	602	592

ANALYSIS OF REFUSE COLLECTED IN THE BOROUGH OF HALIFAX FOR THE YEAR 1896.

			Number of Loads.
From Wet and Dry Ashpits			2931
From Ashes Tubs			17314
From Goux Closet Tubs			26549
Sweepings gathered from the St from Gullies	reets and 1 	Refuse 	5364
Garbage removed from Market H	all		1060
Horse Droppings from Streets			250
Garbage from Fried Fish Shops			400
Total Number of Lo	ads		53868

Smoke Observations.

The following Table shows the number of smoke observations taken during the year, and the average number of minutes of dense smoke emitted.

	Number of Observations taken.	Average Number of minutes of Dense Smoke emitted.
Number of Observations taken	751	
Number showing moderate Smoke or <i>nil</i>	} 145	
Number of Observations taken for a period of 60 minutes, each show- ing Dense Smoke	} 606	
Average number of minutes of Dense Smoke emitted from Chimneys	}	1.97

Smoke Observations.

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

Name of Firm.		Address.	Number of Boilers working.	Number of Observa- tions taken.	Average number of Minutes of Dense Smoke emitted.
Akroyd J. & Son		Bowling Dyke	3	8	0.2
,,		Range Lane	5	2	nil
Akroyd W.		Lucy Street	1	4	nil
Akroyd & Ambler		New Brunswick Mill	1	9	3
Baldwin & Walker		West Croft Mill	2	1	2
Baldwin J. & J.		Clark Bridge	5	9	2.3
Balme & Pritchard		Lister Lane stone chim-	2	5	2.2
"		ney Lister Lane brick chim-	2	5	2.2
Bancroft W.		ney Fenton Estate	2	1	3
Bancroft Alfred		Lister Street	1	1	nil
Barraclough J. & So	ons	Boys' Mill stone chim-	1	1	nil
53		ney Boys' Mill brick chim-	2	1	3
Berry John		ney New Bank	1	3	nil
Berry Bros.		Hebble Lane	1	4	nil
Booth J. & Son		Lee Bridge	6	3	0.3
Bowman Bros.		Union Mills, Pellon	6	6	3.1
,,		Lane	2	6	0.3
Bradford and Distri	-	1, Lee Bank	4	6	0.6
Dyeing Co.		2, Lee Bank	6	5	nil
33 33		1, Old Lane	4	5	0.8

Name of Firm.	Address.	Number of Boilers working.	Number of Observa- tions taken,	Average number of Minutes of Dense Smoke emitted.
Bailey Alfred	Beacon Hill Road	1	1	nil
Butler James	Adelaide Street	1	4	1.2
Carter John & Co.	Dunkirk Mills	1	1	1
Calder and Hebble Co.	Engine House Lane	1	3	2.6
Calvert W. & Son	Illingworth Mills	2	3	1.6
Charnock G. & Sons	Pellon Lane	1	5	1.6
,;	Charlestown Road	1	5	0.5
	Craven Edge Mills	1	1	nil
	Charlestown Road	1	5	0.6
Tile Co. Clayton & Murgatroyd	Lower Wade Street	4	6	4.2
Crabtree Joseph	Well Lane	2	4	nil
Crabtree T	Salterhebble Cotton	2	3	4
Crossley J. & Sons, Ltd.	Mill Bank Bottom	1	7	0.5
Crossley J. & Sons, Ltd.	Dean Clough	4	1	nil
,,	Old Lane	5	5	nil
,,	Office Chimney	8	7	1.1
,,	Lee Bridge stone chim-	6	5	1
,,	ney Lee Bridge brick chim-	6	6	0.6
" …	ney Range Royd	3	6	1.5
	Dye House chimney	2	3	0.3
33	Albion Mills	3	7	0.4
,,	Hebble Mills	2	5	1.4

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Name of Firm.	Address.	Number of Boilers working.	Number of Observa- tions taken.	Average number of Minutes of Dense Smoke emitted.
Crossley & Porter Orphaoage	Skircoat Moor	1	3	nil
Crown Hardware Co	Corporation Street	1	2	nil
Charnock J. & Sons	North Parade	1	1	2
Carter & Wright	South Darley Street	1	1	1.0
Dyson J. & Sons	King Cross	1	8	1.2
Drake J. & Co	Foundry Street	1	3	nil
Eastwood Albert	Craven Edge Mill	1	2	1.2
Earnshaw A. & Sons	Grantham Road	1	4	0.2
Farrar Jabez B	Lower Wade Street	2	7	2.4
33	Well Lane	1	8	3.2
Fleming Andrew	Grantham Road	1	4	nil
Farnell Elijah & Son	Gibbet Street	1	4	0.5
	Hopwood Lane	1	4	0.2
Goodall & Co. Fletcher Bros	Raglan Street stone	4	5	5.8
22	chimney Raglan Street brick	1	1	1.0
Foster W. H	chimney Woolshops	1	4	2.0
Green Joseph	Corporation Street	1	4	nil
Greenwood J	Cross Hills	1	4	1.7
Haley M	Stannary Street	1	1	nil
Harrison & Singleton	Horton Street	1	5	nil
Hartley & Sugden	Gibbet Street	1	4	3.0
Hanson Samuel	Adelaide Street	1	4	0.2

Name of Firm.	Address.		Number of Boilers working.	Number of Observa- tions taken.	Average number of Minutes of Dense Smoke emitted.
Hanson W	Jumples Mill		2	3	0.3
Halifax Industrial	Northgate		1	4	nil
Society Halifax Workhouse	Gibbet Street		1	2	1.2
Halifax Corporation	Gasworks		4	5	nil
,,	Electric Light Work	s	3	6	nil
Halifax Flour Society	Bailey Hall		4	. 10	3.4
Halifax Corporation	Albert Road		1	2	0.2
Waterworks Haigh Allan	Winding Road		1	4	nil
3.5	" Foundry		1	1	3.0
Haxby & Sewell	Well Lane		1	5	1.4
Hegginbottom —	Hay's Mill		2	5	3.0
Hebden W. C	Winding Road		1	4	nil
Helliwell & Sons	Ingram Street		1	2	nil
Hirst & Sons	Weymouth Street		1	4	nil
Hitchen H	Forest Mill		1	4	1.2
Hitchen John	Hall Street		1	4	1.2
Highley N	Croft Mills		2	8	0.2
Howson J. M	Albert Street Mills		2	1	3.0
Horsfall Eli	Commercial Road		1	5	nil
Horsfall & Co	Pellon Lane		1	4	1.2
Holdsworth J. & Sons	Shaw Lodge Mills		10	11	5.3
Hollingrake & Clegg	Miall Street old chin ney	1-	3	6	0.8

Name of Firm.	Addre∘s.	Number of Boilers working.	Number of Observa- tions taken.	Average number of Minutes of Dense Smoke emitted.
Hollingrake & Clegg	Miall Street new chim-	3	5	1.6
Hoyle J. & F	Range Bank	4	6	0.1
Hoyle Richard	Queen's Road	2	6	2.5
Hoyle Elkanah	Waterside No 1 chimney	1	5	1.6
"	,, ,, 2 ,,	1	4	nil
Halifax Infirmary	Free School Lane	2	4	nil
Howarth Greenwood	Pellon Lane	1	1	nil
Huntriss Exors	Well Lane	2	4	3:5
Iuman Bros	Hope Hall	1	7	0.1
Jagger Emma Sophia .	West Parade	2	1	1.0
Knight J	Raglan Street	1	2	0.2
Law & Sons	Square Road	1	2	nil
Lightowler John .	Waterside	1	1	nil
Lees Thomas & Co	Spring Edge Works	1	9	0.1
Lumby, Son & Wood	New Bond Street	1	4	1.2
Lees Bros	King Cross	1	5	0.6
Mackrell J. E	Lower Wade Street	1	6	0.1
Martin & Sons	Pellon Lane	3	5	1.6
Martin W	Falcon Laundry	1	2	nil
Maude & Turner	Gibbet Street	1	6	1.2
McCrea H. C. & Co	Eastfield Works	1	4	nil
McNaught & Co	Hare Street	1	2	1.5

Name of Firm.		Address.		Number of Boilers working.	Number of Observa- tions taken.	Average number of Minutes of Dense Smoke emitted.
Milner & Co.		Raglan Street		1	4	0.2
Morton J.		Clipster Hall		1	4	2.5
33	••	Siddal Lane		1	3	0.6
Moore Ż.		Shaw Mill, Mixende	n	1	5	2.6
Murgatroyd		Bottoms Mill		1	4	2.7
Mellor S. E.		Corporation Street		1	2	nil
Northern Engineeri	ng	High Level Works		1	1	nil
Co. North Allen		Old Lane Dyeworks		1	2	nil
Oakes John		Regent Works		1	2	1
Oates James		Ryburn Mill stone		1	4	2.2
33		chimney Ryburn Mill brick		1	3	4.3
Oates & Green		chimney Horley Green Road		1	4	3
27		Ellen Royd		1	5	0.6
33		Beacon Road		1	5	$4^{.}2$
Ordish John		Waterside		2	6	0.1
Oldfield B.		Foundry Street		1	2	nil
Pulman John		Hopwood Lane		1	3	1.3
Parker & Co.		Chapeltown		1	5	1.4
Parker J. & Sons		Horley Green Road		1	4	nil
Pickles W.		Steam Laundry		1	1	2.0
Priestley James		Ovenden		1	4	$2 \cdot 2$
Pohlmann & Sons		Hall Street		1	4	0.2

Name of Firm.	Address.	Number of Boilers working.	Number of Observa- tions taken.	Average number of Minutes of Dense Smoke emitted.
Patchett Bros	Sedburgh Road, No.	1 1	10	1.4
"	Sedburgh Road, No. chimney	2 1	10	5.0
Pulman A. & Sons		1	2	1.2
Pickles & Sons	Victoria Mills	. 2	2	1
Rawson W. H	Old Lane	. 2	1	nil
Ramsden T. & Sons	Trinity Road	. 1	10	3.6
Robinson J. & Sons	Lower Wade Street	. 1	5	0.6
Robinson Enoch	Battinson Road	. 3	2	3.0
Robinson J	Prospect Mill	. 1	4	1
Robinson Jesse & Sons	Royal Mills	. 2	4	2.2
Redman Cornelius	Pioneer Works	. 1	1	nil
Sagar J. & Co	Water Lane	. 1	10	3.1
Scott Bros	Johnson Street	. 1	5	0.4
Sheard Jonathan	Brackenbed Lane	. 1	3	nil
Smeeton G. F	Stoney Royd	. 3	8	1.7
Smith David	Woollen Mills, Siddal	1	3	1.6
Smith Thomas	Siddal Lane	. 1	3	nil
Smith & Wilshaw	Kingston .	. 1	1	nil
Smith G. F	Paragon Works .	. 1	6	0.5
Smith B. G	Stannary Street	. 1	3	1.6
Soothill & Simpson	North Castle Street	. 1	3	0.6
Smithson Joseph	Park Print Works	. 2	6	1.6

Name of Firm.	Address.	Number of Boilers working.	Number of Observa- tions taken.	Average number of Minutes of Dense Smoke emitted.
Smithson Joseph	India Buildings	1	3	0.6
Simpson & Sons, Ltd	Heath Road	1	3	0.3
Standeven & Earnshaw	Ladyship	3	3	0.3
Standard Screw Co	Dispensary Walk	1	8	0.1
Stead Bros	Hare Street	I	3	1
Stirk & Co	Turney Street	1	3	1
Stott Bros	Mount Street	1	3	2.3
Sutcliffe J. & Sons	Range Bank	1	3	nil
Swan Bank Brick and	Swan Bank	1	4	2
Tile Co. Speak Paul	Mixenden Shed	1	5	nil
Taylor Joseph	Archer Street	1	1	1
Taylor & Hanson	North Bridge	1	4	0.2
Tetley & Co	Bradshaw Mill	2	1	3.0
Thompson Joseph	Adelaide Street	1	5	2.4
Tillotson J. W	Atlas Carpet Works	2	11	4.0
Turner Edwin	Dapper Mills	3	7	4.8
Turner John	Bedford Street	1	1	1.0
Ward J. W. & Son	Walnut Street	5	4	2.7
Ward R. D		6	7	3.2
" …	chimney Hanson Lane, stone	1	2	0.2
Wade Josiah	chimney Hopwood Lane	1	2	nil
Walsh, Brearley and Eastburn	Beech Hill	1	5	1.6

Name of Firm.	Address.	Number of Boilers working.	Number of Observa- tions taken.	Average number of Minutes of Dense Smoke emitted.
Wainwright E. M	Sun Works	 1	8	5.3
Whiteley J	Jubilee Works	1	3	nil
Whitley S. & Co	Hanson Lane	 5	2	2.5
Whiteley J. & Sons	Brunswick Mill	2	1	nil
Whitaker R. & Co., Ld.	Corporation Street	 1	5	nil
Willey R. C.	Trafalgar Works	 6	9	3.7
Wood George	Pellon Lane	 1	4	1.7

TABLE SHOWING NUMBER OF PREMISES REQUIRING INSPECTION BY THE MEAT INSPECTOR,

JOHN M. CARNIE.

Description of Premises.						
Public Slaughterhouses	•••			1		
Private Slaughterhouses				7		
Fish Curing Houses				5		
Borough Market				1		
Wholesale Market				1		
Cattle Lairs				5		
Potted Meat and Tripe Boili	ing Houses			50		
Fried Fish Shops				66		
Knackeries				1		
Fat and Bone Boilers			sign of the	3		
Total				140		

Description of	Premises.			Number of Visits.
Public Slaughterhouses				1011
Private Slaughterhouses				281
Fish Curing Houses		••		68
Borough Market				405
Wholesale Market				400
Cattle Lairs				103
Fasting Sheds				589
Knackeries				19
Potted Meat and Tripe Boilin	ng Houses			598
Butchers' Shops				411
Fried Fish Shops				449
Others				343
Total			-	4677

TABLE SHOWING NUMBER OF VISITS MADE BY THE MEAT INSPECTOR.

TABLE SHOWING NUMBER OF VISITS MADE AND FOOD SEIZED BY THE LATE MEAT INSPECTOR, MR. JOHN HUTCHINSON.

Description of Premises.						
Public and Private Slaughterhouses						
Fish Curing Houses				64		
Cow Sheds				51		
Cattle Lairs and Fasting		341				
Knackeries				5		
Potted Meat and Tripe B	oiling Houses			294		
Bakehouses and Confectio	oners			447		
Milkshops and Dairies				447		
Fried Fish Shops, &c.				219		
Total				2222		

MEAT AND FISH DESTROYED AS UNFIT FOR HUMAN FOOD.

Kind of Food Destroyed.					
Beef and Offal					2160
Veal					190
Mutton					25
Three Pigs					340
Fish					4702
Mussels					1176
	Total				8593

TABLE SHOWING MEAT, FISH, FRUIT, &c., DESTROYED AS UNFIT FOR HUMAN FOOD, DURING THE

Kind of Food Destroyed.							
Seventeen Carcases of Beef							
Thirty-one Ca	rcases of Pig	gs			3012		
Mutton					27		
Veal					380		
Fish					5537		
Shell Fish					4078		
Mushrooms					125		
Fruit					1083		
Rabbits					2		
Nettles					720		
Offal					1307		
	Total				25965		

YEAR 1896.

12 Carcases of Beef and 9 Pigs were suffering from Tuberculosis, 10 Pigs from Jaundice and 3 from Swine Fever.

TABLE SHOWING NUMBER OF SEIZURES DURING THE YEAR, BY MAGISTRATES' ORDER AND WITH CONSENT OF OWNERS.

Мо	nth.		Destroyed by Magistrates' Order.	Destroyed with consent of Owner.	Total.
January				6	6
February		- • •		5	5
March				7	7
April			2	11	13
Ma y			3	15	18
June			8	9	17
July			9	5	14
August			1	7	8
September			7	9	16
October			8	2	10
November			3	3	6
December			5	3	. 8
Total			46	82	128
TABLE SHOWING MEAT, FISH, FRUIT, &c., DESTROYEDAS UNFIT FOR HUMAN FOOD,

Years.	Meat.	Fish.	Fruit.	Other Articles of Food.	Total.
	lbs.	lbs.	lbs.	lbs.	lbs.
1886	4527	769	196	180	5672
1887	2110	17			2127
1888	6955	3672	30	80	10737
1889	3651	1646	70		5367
1890	15494	3062	230	2250	21036
1891	4182	6240	40	230	10692
1892	6724	5697	910	63	13394
1893	6028	3512	1064	989	11593
1894	6112	29156	177	406	35851
1895	8466	18661	180	458	27765
1896	14420	9615	1083	847	25965

FROM 1886 TO 1896.

Pig Killing.

The Sanitary Committee decided to restrict the number of Pigs killed on unlicensed premises, and have issued the following public notice :—

COUNTY BOROUGH OF HALIFAX.

PIG KILLING.

The Corporation of Halifax hereby give notice that any person found slaughtering Pigs on unlicensed premises (except in cases where not more than two Pigs are slaughtered annually, and notice has been given to the Sanitary Inspector, Town Hall, three days before the Pigs are killed), will be proceeded against for acting in contravention of the Acts of Parliament relating to Slaughterhouses.

. Dated the 30th December, 1896.

By Order,

KEIGHLEY WALTON, Town Clerk.

THE FOLLOWING TABLE SHOWS THE POPULATION AND ACREAGE FOR EACH DISTRICT, WITH NAMES AND ADDRESSES OF INSPECTORS.

District.	Population.	Area in Acres.	Name and Address of Inspectors.
1	23679	1481	J. Archbell, The Square.
2	27504	620	J. Thompson, 11, Melville Place.
3	23572	832	J. E. Firth, 7, Randolph Street.
4	20020	5276	A. E. Bottomley, Branch Office, Illingworth.
	94775	8209	

District No. 1. INSPECTOR JAMES ARCHBELL.

65

Nature o	of Defects.			Number of Defects.
Defective Sink Drains				108
" Cellar Drains	·			41
Made-up Cellar and Wal	led Drains			11
Defective Yard and Priva	ate Street D	rains .		100
,, · Area Drains				21
Untrapped Sink Drains				11
Drains to Disconnect		***		17
Defective Water Closet S	soil Pipes			47
Made-up Water Closets				22 .
Defective Water Closets				30
Uutrapped Bath and Law	atory Wast	e Pipes		14
Bath and Lavatory Was	ste Pipes c	onnected	to Soil	15
Pipes Defective Roofing				12
,, Fall Pipes				16
" Troughing				17
" Urinals				8
Water in Cellars				63
Offensive Poultry				4
" Pigeons				1
" Swine				5
,, Swill Tubs				6
" Rabbits				4
Houses Overcrowded				19

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DISTRICT No. 1-Continued.

Nature of Defects.			Number of Defects.
Furnished Rooms Overcrowded			4
Offensive Accumulations			142
Ashpits requiring Reconstruction			10
Disused Closets			9
Closets and Ash Tub Places requiri	ng proper I	Doors	20
Insufficient Privy Accommodation			13
Bad Smells			63
Nuisances from Workshop Chimney	ys		10
Drains Tested			88
Smoke Observations taken			320
Houses requiring Limewashing			66
Furnished Rooms requiring Limewa	ashing		35
Closets requiring Limewashing			49
Visits to Lodging Houses			16
,, Houses where Fever Cases	s existed		130
", Workshops			890
" Factories …			17
" Furnished Rooms			390
Visits under the Shop Hours Act			392
Houses Inspected			720
Rooms Disinfected			99
Fever Cases removed to the Boroug	gh Fever H	ospital	21
Samples purchased for Analysis			41

District No. 2.

INSPECTOR JOSEPH THOMPSON.

Nature	of Defects.			Number of Defects.
Defective Sink Drains				20
,, ,, Pipes				51
" Syphon Traps				49
Made-up Sink, Bath and	Lavatory	Pipes		36
,, Cellar Drains				50
,, and Untrapped	Area Dra	ins		23
Defective and Made-up I	Basement a	and Walled 1	Drains	98
Made-up Sink Drains				19
Defective Pan and other	Closets			36
Made-up Water Closets				26
Defective Closet Drains				15
" Water Closet G	Cisterns			4
Untrapped Bath, Lavator	ry and Sin	k Waste Pi	pes	17
,, Yard and Sur	mpstone D	rains		13
,, Cellar Drains				9
Defective and Broken Fa	ll Pipes			28
Made-up Fall Pipes and	Drains			29
Defective Bell Traps in C	Cellars and	Wash Hou	ses	17
Made-up Yard and Priva	te Street 1	Drains		43
Defective Yard Drains				21
Broken Pot and Iron Traj	ps			11
Made-up Gullies and Disc	connecting	Traps		37
Defective Urinal Drains				9
Bath Pipes to Disconnect				6
Defective Connections to	Traps and	Gullies		28
" Roofing				9

Nature o	of Defects.			Number of Defects.
Offensive Middensteads a	and Accumul	ations		14
Offensive Ashpits and Pr	vivies			9
Defective Troughing				33
,, and Made-up 'I	roughing			15
Water in Cellars from Bu	urst Water Pi	ipes and	Defec-	14
tive Flagging Offensive Swine, Poultry	and Rabbits			5
" Swill Tubs				3
Dilaridatal Classita				17
Insufficient Water Supply	y to Closets			5
Offensive Smells from Ga				2
Houses Overcrowded				3
Dirty Houses				3
Doors off Closets and As	h Tub Places	3		25
Dirty Closets 💊				11
Drains Disconnected				34
Visits to Workshops				567
,, Factories				10
,, Shops under the	e Shop Hours	Act		260
Want of Ash Tub Places				5
Complaints of Untrapped	l Gullies			10
Broken Gulley Grates				5
Rooms Disinfected]	85
Fever Cases Removed to	the Borough	Fever He	ospital	13
Smoke Observations take	n			196
Visits to Vans occupied a	as Dwellings	***		54
Drains Tested				130
Samples Purchased for A	nalysis			40

DISTRICT No. 2-Continued.

District No. 3.

INSPECTOR JAMES EDWARD FIRTH.

Nature of Defects.			Number of Defects.
Made-up and Leaky Sink Pipes			71
Defective Syphon Traps			40
,, Basement Drains			39
Made-up Cellar Drains			33
Defective and Made-up Water Close	ts		50
Old Pan Closets			4
Untrapped Bath, Lavatory, and Sink	Waste I	Pipes .	4
" Sink Drains			14
,, and Stone-walled Cellar	Drains		37
,, Drains in Wash Kitchens	s		4
Defective Connections to Drain Pipes	s		32
Broken Fall Pipes			13
Made-up Fall Pipe Drains			24
,, Troughing			30
Defective Bell Traps in Cellars			10
" Soil Pipes …			5
Made-up Yard and Area Drains			46
Broken Pot and Iron Traps			25
Disconnecting Traps without Grates			6
Drains disconnected			61
Offensive Urinals			7
Insufficient Water Supply to Closets			2
Defective and Made-up Dry Traps			34
Made-up Street Gullies			65
Damp Houses from Defective Roofs : Walls of Houses	and Soil :	against	22

DISTRICT No. 3-Continued.

Nature of Defects.			Number of Defects.
Offensive Swine, Poultry, Pigeons	s, and Rabbi	ts	8
" Swill Tubs			2
Water in Cellars from Defective I Water Pipes	Burst	24	
Houses insufficiently Drained			2
Houses Overcrowded			14
Dirty Houses			48
", Closets …			95
Doors off Closets		•-	60
Dilapidated Closets and Ashpits			28
Offensive Accumulations and Mic	ldensteads		45
Nuisances from Smoke			9
Defective and Made-up Street Gu	allies		65
Insufficient Privy Accommodation	1		9
Rooms Disinfected			53
Drains Tested			90 .
Visits to Workshops			436
,, Factories			102
" Shops under the Shop F	Iours Act		396
,, Furnished Rooms			51
No Abstract hung in Shops			18
Visits to Vans used as Dwellings			20
" Houses of Infectious Dis			113
Fever Cases Removed to the Boron			25
Smoke Observations taken			158
Samples Purchased for Analysis			51
Ashpits converted to Goux Syster		•••	15

OVENDEN AND ILLINGWORTH.

District No. 4.

INSPECTOR ALBERT EDWARD BOTTOMLEY.

Nature o	Number of Defects.			
Defective and Drawn-out	12			
Made-up Drains				22
Defective Drains				80
" Connection of	Drain Pip	es		13
,, Bell Traps				8
,, Fall Pipes				14
" Troughing				22
Want of proper Drains				24
Drains to Disconnect				32
Untrapped Drains				42
Made-up Gullies				22
Water in Cellars				4
Dirty Closets				58
" Houses				7
Damp Walls of Houses				4
Offensive Middensteads,	Ashplaces	and Accumu	alations	38
,, Swill Tubs				4
Defective W.C. and Soil	Pipes			6
Untrapped Sumpstones				84
Dilapidated Closets				11

DISTRICT NO. 4—Continued.					
Nature o	f Defects.			Number of Defects.	
Privies to Convert				27	
Defective Flooring				7	
Offensive Swine				6	
Doors off Closets				11	
Insufficient Closet Accom	modation		·	18	
Streets to Pave and Sewe	er			2	
Offensive Privies				9	
., Urinals				3	
Want of Ventilation				4	
Overcrowded Houses	•••			11	
Polluted Water				5	
Defective Pot Traps				3	
" Walled Drains				14	
Offensive Cesspools				5	
,, Rabbits				1	
,, Chimney				1	
", Fowls	•••			2	
Rooms Disinfected				66	
Cases removed to Hospita	al			12	
Samples obtained for Ana	alysis			50	
Drains Tested				33	
Smoke Observations take	n			66	
Notices Served				117	
			1		

DISTRICT No. 4-Continued.

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TABLE SHOWING NUMBER OF VISITS MADE TO FACTORIES AND WORKSHOPS BY THE DISTRICT INSPECTORS.

District.	Number of Visits made to Factories.	Number of Visits made to Workshops.	Number of Visits under the Shop Hours Act.
1	17	890	392
2	10	567	266
3	102	436	396
4	35	86	43
	164	1979	1097

The following Table shows the nature of Nuisances registered :—

District No. 1.

INSPECTOR JAMES ARCHBELL.

Nature of Nuisances.		Number Registered.
IN FACTORIES.		
Insufficient Privy Accommodation	 	11
Defective Water Closets	 	31
,, Drains	 	4
Want of Ventilation	 	1
IN WORRSHOPS.		
Insufficient Privy Accommodation	 	8
Defective Water Closets	 	9
,, Drains	 	11
Want of Ventilation	 	4
Workrooms Overcrowded	 	3
" requiring Limewashing	 	52
	-	134

The following Table shows the nature of Nuisances registered :---

District No. 2.

Number Nature of Nuisances. Registered. IN FACTORIES. Insufficient Privy Accommodation 2 IN WORKSHOPS. Rooms requiring Limewashing 23 Insufficient Privy Accommodation 8 ... Defective Water Closets 2 Drains 7 ... ,, Roofs 2 ,, Offensive Urinals 5 Made-up Drains 4 Broken Fall Pipes and Troughing 6 Workrooms Overcrowded ... 3 Total 62

INSPECTOR JOSEPH THOMPSON.

The following Table shows the nature of Nuisances registered :—

District No. 3.

INSPECTOR JAMES EDWARD FIRTH.

Nature of Nuisances.		Number Registered.
IN FACTORIES.		
Untrapped Water Closets		 30
Made-up Water Closet Drains		 4
Insufficient Water Supply to Closets	-	 6
Defective Doors to Water Closets		 2
IN WORKSHOPS.		
Defective, Broken, and Made-up Wat	er Closets	 5
Insufficient Privy Accommodation		 2
,, Ventilation		 2
Dangerous Floors		 1
Workrooms requiring Limewashing		 13
,, ,, Ventilation		 2
" Overcrowded		 3
Water in Cellar from Defective Drain	.s	 1
	Total	 71

District No. 4.

INSPECTOR ALBERT EDWARD BOTTOMLEY.

Natu	1	Number Registered			
IN					
Defective Closets					6
In	Works	SHOPS.			
Dirty Workshops	•••	·			9
Workshops Overcrow	vded				1
Want of Ventilation					. 1
		т	otal		17

Bakehouses.

TABLE SHOWING THE NUMBER OF VISITS MADE TO BAKEHOUSES DURING THE YEAR.

	Number on Register.	Number of Visits made
Wheat Bread and Muffin Bakers, including Confectioners	78	557
Oat Bread and Muffin Bakers	14	73
Pie Makers	3	50

TABLE SHOWING DEFECTS IN BAKEHOUSES.

Nature of	Number of Defects.			
Defective Drains				5
Drains Disconnected				3
Bakehouses requiring Lim	ewashin	g		27
Broken Fall Pipes				1
Dirty Floors				3
Horse kept in Bakehouse				1
Total				40

Cowsheds and Milkshops.

TABLE SHOWING NUMBER OF VISITS MADE TO COWSHEDS AND MILKSHOPS.

Description of Premises.		Number on Register.	Number of Visits.	
Cowsheds		 	69	169
Milkshops		 	95	580

DEFECTS IN COWSHEDS AND MILKSHOPS.

Nature of	Defects.		Number of Defects.
Dilapidated Cowsheds		 	3
Sump Hole in Cowshed		 	1
Badly Ventilated Cowshe	ds	 	2
Cowsheds requiring Lime	washing	 	27
Dirty Cans and Floors		 	6
Insufficient Ventilation		 	2
Defective Drains		 	5
Iron Bell Traps		 	4
Untrapped Stone Walled	Drains	 	3
Drains Disconnected		 	3
Untrapped Drain		 	1
Total		 -	57

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

	Wards.		Enteric Fever.	Scarlet Fever.	Continued Fever.	Puerperal Fever.	Diphtheria.	Total.
Ovenden			 4	5			4	13
Northowram			 10	1	2	1	6	20
North			 6	2			1	9
Central			 12	2		1		15
West			 7	1		1	5	14
South			 11	1			5	17
East			 8	7			4	19
Southowram			 4	8			1	13
Skircoat			 8	7			3	18
Pellon			 9	3			4	16
Kingston			 12	1		1	2	16
Illingworth	·		 17	8			4	29
		Total	 108	46	2	4	39	199

Rooms Disinfected.

THE FOLLOWING TABLE SHOWS THE NUMBER OF ROOMS DISINFECTED BY THE DISTRICT INSPECTORS DURING THE YEAR.

	n	Vards.		Number of Rooms Fumigated.
Illingworth			 	43
Ovenden			 	26
Northowram			 	33
North			 	9
Central			 	26
West			 	22
South			 	22
Kingston			 	29
Pellon			 	26
East			 	31
Southowram			 	15
Skircoat			 	30
			-	
	Total		 	312

L

Disinfection.

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

	Description	of Article	38.		Number of Articles.
Beds					198
Mattresses					274
Pillows					390
Sheets					155
Bolsters					193
Blankets					323
Counterpane	es.				179
Bed Furnitu	re				12
Curtains					13
Trousers					13
Coats and V	ests				29
Rugs and C	arpets				72
Drawers					2
Flannel Ves	ts, Dresses a	and Petti	icoats		12
Cushions					4
Hose					6
Mats and Su	undries				57
Dressing Go	wns and Sh	awls			35
Shirts					9
Towels and	Stockings				12
Jerseys					9
	Total			·	1997

TABLE SHOWING THE NUMBER OF INFECTIOUS DISEASES REMOVED TO THE BOROUGH FEVER HOSPITAL BY THE DISTRICT INSPECTORS FOR

Wards.		Typhoid Fever.	Scarlet Fever.	Diph- theria.	Continued Fever.	Measles.
Ovenden		2	3	1		
Northowram		10	1		2	1
North		2	2			
Central		8				
West		4	5			13
South		2				1
East		1	5			
Southowram		3	2			
Skircoat		4	7	2		
Pellon		4				
Kingston		3		1		
Illingworth		3	3			
Outside the Bord	ough	8	3			
Total		54	31	4	2	15

THE YEAR 1896.

Ovenden and Illingworth.

TABLE SHOWING NUMBER OF PREMISES REQUIRING INSPECTION BY THE DISTRICT INSPECTOR, ALBERT EDWARD BOTTOMLEY.

Description of Premises.		Number.	Number of Visits.
Private Slaughterhouses		3	25
Bakehouses and Confectioners		4	35
Oat Bread Bakers		12	43
Cowsheds		217	1050
	-	236	1153

Dairies and Cowsheds.

THE FOLLOWING TABLE SHOWS THE NUMBER OF DEFECTS IN CONNECTION WITH COWSHEDS.

Nature of Defects.									
Offensive Tanks and Middensteads									
Dilapidated Cowhouses				11					
Tanks to provide				24					
Drains to provide				4					
Want of Air-space and V	entilation			91					
" Light				50					
Defective Ventilator				1					
Pigstye in Cowhouse				1					
Defective Floors				5					
Dilapidated Pigstye				1					
Offensive Sewage				2					
Fowls kept in Cowhouse				2					
Cowhouses to Limewash			··· _	176					
Total				373					

¥

THE FOLLOWING TABLE SHOWS THE NUMBER OF ASHPITS CLEANSED DURING THE YEAR IN OVENDEN AND ILLINGWORTH WARDS.

(FORMERLY THE LOCAL BOARD DISTRICT OF OVENDEN.)

Month.		Number of Ashpits emptied.	Loads of Soil.	Loads of Rubbish.	Total Number of Loads.	
January		156	50	36	86	
February		167	45	58	103	
March		103	55	14	69	
April		141	70	27	97	
May		161	77	38	115	
June		105	40	45	85	
July		192	64	49	113	
August		171	74	26	100	
September		28	7	27	34	
October		218	76	48	124	
November		139	63	165	228	
December		59	42	12	54	
Total		1641	663	546	1209	

86

4

Streets Scavenging.

The following Table shows the work done in this Department :----

OVENDEN AND ILLINGWORTH DISTRICTS.

 $5\frac{1}{2}$
 $16\frac{1}{2}$
 1601
 913
 4992

Ovenden and Illingworth.

The following Table shows the nature of Nuisances registered in connection with Bakehouses and Slaughterhouses :—

Nature of	Nature of Defects.									
In Slau	HTERHOUSE	5.								
Slaughterhouses requirin	g Limewash	ing		3						
Defective Drains				3						
Want of Proper Traps				3						
Defective Ventilators				3						
Drains to Disconnect				2						
Want of Proper Water S	Supply			3						
Dilapidated Slaughterho	use			1						
IN BAR	CEHOUSES.									
Bakehouses requiring Li	mewashing			1						
Bakehouse to Ventilate				1						
			-							
		Total		20						

Canal Boats.

During the year 60 Inspections have been made, and in every case the Boats were found clean and in good condition.

There has not been a single case of sickness or overcrowding during the year, and where women and children were on board, proper provision was made for the division of the sexes.

Of the 60 Boats inspected there were 8 with women and children on board, and 13 with women.

The Boats were free from bilge water, and ventilation fairly good, and proper provision made for the storage of water for domestic purposes, neither has there been any objection to the Inspections.

Number	Number	Number	Number	Total.
of Boats	Registered	of Males on	of Females	
Inspected.	to carry.	Board.	on Board.	
60	298	89	21	110

Canal Boats, 1896.

Ages of Children found on Canal Boats.

Ages.		YEARS.						
	2	3	6	8	10	13	Total.	
Number	3	4	1	2	1	1	12	

Domandee	IVEILING INS.				
	Total.	£ s. d. 2 16 0	4 4 0	3 16 0	2 2 -
Decision of Court.	Costs.	£ s. d. 0 16 0	1 4 0	0 16 0	9 2 0
Det	Penalties.	£ s. d. 2 0 0	3 0 0	3 0 0	0
Nature of Offence.		Selling Milk adulterated with 17% of added Water	Exposing for Sale a Car- case or Beef unfit for human foood	Hanson Lewis John Preparing for food a quantity of putrid Pork	Obstructing the Inspector in the performance of his
	Defendant's Name.	Jowett Samuel	Sutcliffe Arthur	Hanson Lewis John	Swift John Fernside
	Date.	March 6th	May 8th	May 15th	June 12th

-	Total.Remarks.£ s. d.Bismissed on the ground that there was a doubt about the matter						
Decision of Court.	Costs.] T	£ s. d. £	:		5 6		
Decisio	Penalties.	£ s. d. £	: .		0 10 0 0		
Votino of Office	Travence of Officience.		berries		. Slaughtering upon Un- licensed Premises		
Defendant's Name		Leo Cherles Henry			Sept. 22nd Sutcliffe John		
Date		Inly 91st	fine fine		Sept. 22nd		

I again beg to thank my Assistants and Mr. J. W. Jackson (Chief Clerk) for the valuable assistance rendered, which has materially assisted me in carrying out the very important duties of this Department.

I am, Gentlemen,

Your obedient Servant,

DAVID TRAVIS,

Chief Sanitary Inspector.

County Borough of Ibalifar.

Report of the Public Analyst

FOR THE YEAR ENDING DECEMBER 31st, 1896.

To the Chairman and Members of the Health Committee of the County Borough of Halifax.

GENTLEMEN,

During the year just ended I have analysed for your Committee 218 samples of foods and drugs, in compliance with the provisions of the Sale of Food and Drugs Acts, 1875 and 1879; also 6 samples of water.

Water.—One of the waters was condemned as unfit to drink ; a second contained a tenth of a grain of lead per gallon—quite sufficient to produce lead poisoning, and of the rest only one was good the others being of questionable purity. Considering the great importance of water supply—public and private—I might be permitted to remark that systematic rather than spasmodic examination would be conducive to the general welfare, especially in face of the fact that last year 60 per cent. of the samples examined were condemned as being unfit to drink, which will be seen on reference to my last report. Food and Drugs.—The nature of the various samples of foods and drugs examined is shown in the following Table :—

1896. Quarter ending	Milk.	Butter.	Lard.	Beer.	Coffee.	Ginger.	Pepper.	Yorkshire Duck.	Cheese.	Soda Water.	Sulphur.	Precipitated Chalk.	Sweet Nitre.	Total.
Mar. 31st	54					2					4			60
June 30th	45	5					2				3	1		56
Sep. 30th	32		1	11	7		5	1	1	3				61
Dec. 31st	28	10							•••				3	41
	159	15	1	11	7	2	7	1	1	3	7	1	3	218

As the result of my analyses I have as usual reported each sample as "genuine," "of doubtful genuineness," or "adulterated." All the substances examined are classified under these headings in the following statement :—

	Genuine.	Doubtful.	Adulterated.
1st Quarter	 56	3	1
2nd ,,	 52	4	0
3rd ,,	 54	2	5
4th "	 38	2	1
Total	 200	11	7

Date.	Kind of Sample.	Nature of Adulteration.	Remarks.		
Feb. 6. Aug. 28	Milk Coffee	01.1	Fine and costs imposed £2 16s.0d.		
Sept. 16.	Hop Beer	1.12% of alcohol	Equal to 2.47% proof spirit.		
,, 17.	2 Syphons of Soda Water	$\frac{1}{2}$ Pharmacopæia strength.			
	1 Syphon of Soda Water	$\frac{1}{3}$ Pharmacopæia strength.			
Dec. 14.	Skimmed Milk	14% added water.	Fine and costs imposed £1 17s.6d.		

The following are the cases of adulteration :--

The sample of coffee was sold as coffee, but in a paper labelled "a mixture."

The two milk prosecutions were for extreme cases of adulteration with water; on the average the milk of 11 cows being diluted up to the yield of 13, the pump thus taking the place of 2 cows.

The hop beer with its 2.47 per cent. of proof spirit was sold as non-intoxicant.

The soda waters in syphon bottles fell far below the legal standard of 30 grains of bicarbonate per pint. As I have before pointed out it is of importance that the strength should be put on the label, and this I observe is now being done by at least one firm. The percentage of adulterated samples has been 3.2 which is below the average of former years, as will be seen from the following figures :—

geof rated s	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896
Percenta Adulter Sample	5	9.3	15	1.8	2.9	11.4	6	3	5-4	6.7	1.2	3.2

The doubtful samples were all milks in which the quality was so much below the average of other deliveries that they came dangerously near to being classed as adulterated. The analyses of milks, as befitting its importance as an article of food, have been far more numerous than those of any other food or drug forming indeed 73 % of the whole number of samples examined and reported on. Next in importance comes butter to the extent of nearly 7 %. All the butters were genuine both as regards the fats and the amount of water in them.

The drugs examined have been few in number, only some 5%. On account of their importance I should like to see their relative number increased.

Upon the whole, I have pleasure in reporting that the year's work is satisfactory, and that the low percentage of adulterated samples is a testimony to the efficacy of a continuous and consistent administration of the Food and Drugs Acts.

I am, Gentlemen,

Yours obediently,

WILLIAM ACKROYD,

Public Analyst.

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