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County Borough



of Halifax.

HEALTH DEPARTMENT.

Report

OF THE

MEDICAL OFFICER OF HEALTH,

TOGETHER WITH THE REPORTS OF THE

SANITARY INSPECTOR

AND

THE BOROUGH ANALYST,


FOR THE

Year ending December 31st, 1895.

Halifax:

WHITLEY & BOOTH, PRINTERS, ETC., CROWN STREET.

1896.



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Staff of the Health Department.

Chief Sanitary Inspector.

DAVID TRAVIS.

Meat Inspector.

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.

Assistant Clerks.

HERBERT REED.

HARRY WILSON.

Matron of the Borough Hospital.

MISS ROBISON.

Disinfector.

T. W. BOOTH.

Porter.

HENRY VICKERMAN.

**Medical Officer of Health, and Superintendent
of the Infectious Diseases Hospital.**

D. AINLEY, M.R.C.S., L.R.C.P., &c.

Members of the Health Committee, 1895-96.

Mayor.

Mr. COUNCILLOR G. H. SMITH.

Chairman.

Mr. ALDERMAN JOHN PATCHETT.

Vice-Chairman.

Mr. COUNCILLOR NAYLOR.

Mr. ALDERMAN COE, J.P.,	Mr. COUNCILLOR W. C. F. SMITH,
„ COUNCILLOR CROSSLAND, J.P.,	„ „ WEST-SYMES, M.D.,
„ „ DODD,	„ „ TAYLOR,
„ „ FARNELL,	„ „ WHITLEY, J.P.,
„ „ HEY,	„ „ WHITAKER.

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

County Borough of Halifax.

Report of the Medical Officer of Health

FOR THE 52 WEEKS ENDED DEC. 28th, 1895.

*To the Chairman and Members of the Health
Committee.*

GENTLEMEN,

For the twenty-third time I have the honour of presenting to you my Report on the Health of the Borough for the above-named period.

For those who have not time, and may be others who have not the inclination to wade through a lot of figures, I will summarise some of the results in a few sentences, and also insert a Table showing our position among the 33 largest towns, in respect to their Vital and Mortal Statistics.

POPULATION 93813—	1894.	1893.	1892.
Births 2186—birth-rate 23·3	... 22·9	... 24·5	... 25·8
Deaths 1803—death-rate 19·2	... 16·3	.. 17·2	... 19·5
Zymotic deaths 122—Zymotic death-rate 1·3	... ..	... 0·9	... 1·7
Deaths from diseases of the respiratory organs (excluding phthisis) 396	... 297	... 321	... 490
Deaths from phthisis 185	... 141	... 135	.. 131

Analysis of the Vital and Mortal Statistics of Thirty-three of the largest English Towns during the year 1895.

TOWNS.	Estimated Population middle of 1895.	Births.	Deaths.	Annual Rate per 1,000 Living.			Deaths from Zymotic diseases	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-Cough.	Fever.	Diarrhoea.	Deaths of Children under 1 year of age to 1,000 Births.	Rate per cent. of Uncertified Deaths.
				Births.	Deaths.	Principal Zymotic Diseases.										
33 Towns	10,591,530	330,896	218,165	31.3	20.7	2.8	29,957	120	5,623	1,883	3,735	3,888	2,115	12,593	182	1.5
32 Provincial Towns	6,199,184	197,181	131,228	31.9	21.2	8.0	18,413	65	2,991	1,054	1,419	2,405	1,486	8,993	193	2.2
London	4,392,346	133,715	86,937	30.5	19.8	2.6	11,544	55	2,632	829	2,316	1,483	609	3,600	166	0.7
West Ham	249,473	8,541	4,447	34.3	17.9	3.2	805	10	227	45	192	57	65	209	168	2.7
Croydon	114,923	2,896	1,658	25.3	14.4	1.3	151	..	10	4	22	28	14	64	134	..
Brighton	119,604	3,057	2,252	25.6	18.9	1.8	209	..	26	5	18	42	14	104	164	1.6
Portsmouth	174,751	4,868	3,108	27.9	17.8	2.1	371	..	39	7	19	63	35	208	175	0.8
Plymouth	89,096	2,551	1,787	28.7	20.1	1.9	171	..	77	2	10	28	7	47	178	0.3
Bristol	228,139	6,579	4,109	28.9	18.1	1.3	295	..	8	16	34	45	21	171	143	1.1
Cardiff	155,637	5,321	2,826	34.3	18.2	2.4	377	..	47	8	56	52	15	199	179	1.0
Swansea	97,008	3,231	1,767	33.4	18.3	1.7	163	..	46	5	12	20	20	60	178	1.1
Wolverhampton	85,780	3,027	2,086	35.4	24.4	4.2	362	..	41	33	84	53	17	134	218	0.6
Birmingham	496,751	16,026	10,048	32.4	20.3	2.7	1,721	8	136	127	183	171	81	615	183	4.8
Norwich	107,127	3,398	2,066	31.8	19.3	2.7	291	..	27	10	19	53	26	156	190	1.6
Leicester	193,839	5,954	3,333	30.8	17.2	3.0	577	..	32	16	35	85	39	370	203	3.1
Nottingham	226,658	6,718	4,299	29.7	19.0	2.2	505	..	1	51	10	31	54	358	190	1.3
Derby	100,272	2,909	1,670	29.1	16.7	2.0	195	8	7	8	6	21	18	127	161	0.5
Birkenhead	107,469	3,288	2,093	30.7	19.5	2.4	252	..	3	16	45	41	42	105	174	1.1
Liverpool	503,967	18,525	14,469	36.9	28.8	4.0	2,016	13	359	144	120	372	187	821	210	3.0
Bolton	119,337	3,921	2,852	32.9	24.0	4.5	530	1	124	23	16	67	53	246	212	0.3
Manchester	524,865	17,624	13,205	33.7	25.2	3.7	1,950	2	509	169	108	250	99	813	203	1.2
Salford	208,253	7,454	5,327	35.9	25.6	5.0	1,031	..	213	97	62	153	88	438	131	2.3
Oldham	141,079	3,873	3,091	27.5	22.0	2.8	393	22	98	15	26	54	26	152	190	3.2
Burnley	99,591	3,189	2,322	32.1	23.4	3.9	585	..	25	22	43	54	30	211	142	1.9
Blackburn	127,615	3,899	3,093	30.6	24.3	5.6	710	..	323	8	9	75	29	272	236	2.8
Preston	112,638	3,753	2,684	33.4	23.9	3.8	423	1	47	4	8	50	22	291	248	3.6
Huddersfield	99,482	2,150	1,675	21.7	16.9	1.3	119	..	12	19	15	23	6	47	158	3.3
Halifax	93,813	2,103	1,805	23.4	19.3	1.3	122	..	9	5	14	23	16	55	158	2.0
Bradford	220,384	5,890	4,482	26.1	19.9	2.5	500	..	18	25	20	106	40	357	203	1.0
Leeds	395,546	12,479	8,083	31.6	20.5	2.7	1,062	..	134	51	63	112	82	618	191	0.6
Sheffield	342,768	11,913	6,994	34.0	20.5	3.2	1,085	..	187	33	52	71	97	645	197	3.1
Hull	216,722	7,352	4,504	34.2	20.8	3.3	718	..	9	39	37	44	48	531	205	4.0
Sunderland	137,705	4,819	2,992	35.1	21.8	3.5	481	..	19	11	8	63	132	258	189	1.2
Gateshead	95,871	3,306	1,872	34.6	19.6	2.6	251	..	28	14	19	62	15	113	180	0.8
Newcastle-on-Tyne	207,021	6,437	4,229	31.2	20.5	2.3	520	..	141	22	52	59	48	198	186	1.1

Population.—The Borough is divided into Twelve Wards, and the following are the Areas and Estimated Population of the Divisions in the middle of 1895.

WARDS.	Acres.	Population.	Number of Persons to an Acre.
SOUTHWRAM	777	7349	9
SKIRCOAT	513	7774	15
EAST	191	8540	44
SOUTH	296	8510	28
KINGSTON	238	7069	29
WEST	86	9576	111
PELLON	241	7643	31
CENTRAL	82	8837	107
NORTH	168	7716	45
NORTHWRAM	582	6853	11
OVENDEN	531	6840	12
ILLINGWORTH	4504	7106	1
TOTAL	8209	93813	11

Births.—The number of births registered within the Borough during the 52 weeks ended December 28th, 1895, is 2,186, composed of 1,157 males and 1,029 females, giving a birth-rate of 23·3. This is only an increase of 0·5 upon the rate of 1894, which was the lowest on record, and 3·4 below the mean rate of the preceding ten years, 1885-94, see Table on page 25. 51 births are returned as illegitimate, against 73 in each of the two preceding years. This number is 2·3 per cent. of the total births, against 3·2, 3·4, 3·6, and 3·4 in the four previous years. Whatever we may think about the diminution of the birth-rate generally, the gradual reduction of the illegitimate births must be regarded with satisfaction.

In the 33 large towns dealt with in the Registrar-General's Weekly Returns the mean birth-rate in 1895 is 31·3 per 1000 of the estimated population, and ranges from 21·7 in Huddersfield, 25·3 in Croydon, and 25·6 in Brighton, to 35·1 in Sunderland, 35·4 in Wolverhampton, 35·9 in Salford, and 36·9 in Liverpool.

TABLE SHOWING NUMBER OF BIRTHS AND BIRTH-RATES IN EACH QUARTER OF 1895.

1895.	Males.	Females.	Total.	Birth-rate per 1000 living.
1st Quarter ..	317	258	575	24·5
2nd „ ...	279	247	526	22·4
3rd „ ...	297	274	571	24·3
4th „ ...	264	250	514	21·9

Our very low birth-rate—so much below the average of other towns with the exception of Huddersfield—has been the subject of so much comment and speculation that I have tried to find out some likely cause. I am not sure that I have succeeded, but the following Table shows that the percentage of persons living between the ages of 20 and 40 years of both sexes have gradually increased from 1871 to 1891, and yet the number of births have very considerably diminished. At the census of 1891 there were 13,665 persons of both sexes, between the ages of 20 and 40, *more* than in 1871, and yet the births for the former year were 318 less than the latter. Or to put it another way, a population in 1871 of 65,510 gave 2,478 births, while a population in 1891 of 89,832 only yielded 2,160. We must also remember that the decrease did not stay in 1891. A birth-rate in that year of 26·0 per thousand has further fallen to 22·8 in 1894, and only reached 23·3 in 1895. I have not the information before me of the relative marriage rates of the above periods, but I should say that the probabilities are that a postponed marriage age, coupled with a desire to have smaller families than our forefathers had, account for the greater part of this declension.

These figures are worth the consideration of the School Board in their provision for elementary education.

Census Periods.	Population.	Between 20 and 40 Years of Age.	Percentage to the whole Population of the Ages 20-40.	Birth-rate whole Population	Number of Births.
1871	M. 31117 F. 34393	M. 9672 F. 11373	M. 31·1 F. 33·1	} 38·0	2478
1881	M. 25195 F. 28843	M. 9251 F. 11247	M. 36·7 F. 39·0			} 31·7	2338
1891	M. 41921 F. 47911	M. 15993 F. 18717	M. 38·1 F. 39·1	} 26·0	2160

Deaths.—The deaths registered within the Borough, which had been 1,642, 1,591, and 1,522 in the three preceding years, rose in 1895 to 1,803, comprising 926 males and 877 females. The death-rate is equal to 19·3 per 1000, against 19·5, 17·3, and 16·3 respectively in the three years 1892-94, and is 1·5 below the mean rate for the ten years 1885-94.

In the 33 large towns dealt with by the Registrar-General in his Weekly Returns the death-rate in 1895 equalled 20·7 per 1000, and exceeded by 1·2 the rate in Halifax. Among these large towns the rates ranged from 14·4 in Croydon, 16·7 in Derby, 16·9 in Huddersfield, 17·2 in Leicester, and 17·8 in Portsmouth, to 24·3 in Blackburn, 24·4 in Wolverhampton, 25·2 in Manchester, 25·6 in Salford, and 28·8 in Liverpool.

TABLE SHOWING DEATH RATES PER THOUSAND OF THE POPULATION IN EACH QUARTER FROM THE FOLLOWING DISEASES:—

1895.	Zymotic Diseases.	Consumption.	Lung Diseases excluding Consumption.	From all Causes.
First Quarter ..	1·1	2·3	7·2	24·9*
Second Quarter ...	0·5	2·4	3·3	18·2
Third Quarter ...	1·8	1·4	2·0	15·6
Fourth Quarter ..	1·5	1·7	4·2	18·0
Whole Year ...	1·28	1·97	4·22	19·21

* The increased mortality of the First Quarter is due to the continued low temperature and its effect on lung diseases of January and February, to which further reference is made in the text. See also Chart.

Infant Mortality.—Of the 1,803 deaths in the Borough in 1895, 354 were of infants under one year of age, being an increase of 62 on the previous year, but a decrease of 40 on the year 1893.

Infantile Mortality measured by the proportion of deaths under one year to registered births was equal to 158, against 173, 174, and 137 in the three preceding years 1892-3-4, and a decrease of 2 on the mean rate for the ten years 1885-94. The Illegitimate rate was 460 per 1000 births, and all died under one year of age. In the 33 large towns the rate of Infantile Mortality last year averaged 182 per 1000 births, and exceeded the rate in Halifax by 24. The Yorkshire County Boroughs stand as follows: Leeds 191, Bradford 203, Sheffield 197, Hull 205, and Huddersfield 158. Like our own town, each has an increase upon the year 1894.

TABLE SHOWING RATES OF MORTALITY OF CHILDREN UNDER ONE YEAR OF AGE FROM CHIEF INFANTILE DISEASES PER THOUSAND BIRTHS, AND RATE PER CENT. OF TOTAL DEATHS.

DISEASES.	1895.		
	Total Deaths.	Rate per 1000 Births.	Rate per cent. of total Deaths at all Ages.
From all causes	351	160·5	19·4
Lung Diseases	48	21·9	2·6
Marasmus, Wasting Diseases	34	15·5	1·8
Premature Birth, Inanition	94	43·0	5·2
Diarrhoea	27	12·3	1·4
Whooping Cough	8	3·6	0·4
Convulsions	56	25·6	3·1
Scrofula, Tuberculosis	6	2·7	0·3
Dentition	9	4·1	0·4

Mortality at Groups of Ages.—The 1,805 deaths in Halifax last year included 530 of children under 5 years of age or 28·8 per cent. of the total deaths; between the ages of 5 and 15 years, 60 deaths occurred, or 3·3 per cent. ; between 15 and 25 years, 97 deaths took place, or 5·4 per cent. ; 554 between 25 and 60 years, or 30·7 per cent. ; and at 60 years of age and upwards, 562, or 31·1 per cent.

In Table 2 are given the rates of Mortality that prevailed in 1895 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 5 years of age, which had been 54·0, 62·0, and 50·7 per 1000 living at those ages in the years 1892-3 and 4, rose in 1895 to 56·5, and is 4·2 above the mean rate at those ages during the ten years 1885-94. The rate of Mortality at the next age-period 15-25 years was equal to 58 per 1000, which was 1·0 above the rates of 1894, and also above the mean of the decade 1885-94. Among persons aged 25-60 years the rate was 17·3, against 13·6, 10·7, and 14·5 in the three preceding years. Among persons aged upwards of 60 years the rate of Mortality was equal to 92·9 per 1000, the mean for the last decennium being 87·2.

Causes of Death: Zymotic Diseases.—The 1,805 deaths in Halifax during 1895 included 122 which were referred to the principal zymotic diseases, against 127, 157, and 81 in the three preceding years. These 122 deaths are equal to 6·7 per cent. of the total deaths, and to an annual rate of 1·3 per 1000 of the population, against 1·51, 1·7, and 0·9 in the years 1892-3-4. In the

ten years 1885-94 the mean zymotic death rate in Halifax was 1·42. It may be mentioned in this connection that the zymotic rate in the 33 large towns in 1895 averaged 2·8 per 1000, while the rate in 32 provincial towns was equal to 3·0 per 1000, in both cases considerably higher than Halifax.

Small-pox. — In the middle of December, 1894, a sudden outbreak consisting of three cases of small-pox occurred, and at the beginning of the year 1895 the whole of these were in our Hospital; I am very glad to say, however, that the prompt manner these were treated—by isolation, re-vaccination, and disinfection—no other cases followed, and this immunity has extended throughout the year.

Measles.—This infantile malady has been quiet during the year, deaths occurring in only four Wards out of the twelve, namely 2 in Ovenden, 4 in Illingworth, 2 in Southowram and 1 in South. The total for the year is 9, against 39, 64, 5 and 32 in the preceding four years. The average for the ten years 1885-94 is 34.

Scarlet Fever.—During the year under notice 52 cases of scarlet fever have been notified to the Health Department, which is considerably the lowest number on record, the four previous years being 429, 256, 150 and 114 respectively. The case mortality 6 in 52, is rather above the previous year, which was 4 in 114. The deaths in the four preceding years were 36, 7, 3 and 4 respectively. (See Tables B and 8, page 33.)

Diphtheria.—29 cases of this complaint have been notified during the year, against 42 in 1894; the deaths in the latter period were 11, and for the former 12. Although

the number notified has been considerably less the mortality per cent. has been higher. In 1894 it was 26·2, in 1895 41·3.

Whooping Cough.—24 deaths were recorded of this disease in 1895, against 58, 9, 32 and 21 in the preceding four years. The mean of the ten years 1885-94 is 23·6.

Fever.—This term includes typhus, enteric and simple continued and ill-defined forms of fever, to which 16 deaths are referred, against 5 in the previous year and 12 in 1893. The average for the last ten years is 12·7. The percentage of deaths to notified cases is 26·3 which is very much higher than the two preceding years, which were 17·4 and 9·6 respectively.

Diarrhœa, including Dysentery, caused 53 deaths during 1895, against 16, 13, 2, 38 and 4 in the preceding five years respectively. The mean for the ten years 1885-94 is 17·4. It is well known that the mortality of diarrhœa usually occurs during the months of July and August, depending as it would seem on the higher temperature of those months; but the summer of 1895 was exceptional in this respect. During the two months just named we had only 2 deaths from diarrhœa, while in September and the early part of October 48 deaths were recorded. It is the increase in the deaths from this disease caused by the abnormal climatic conditions of September that raises our zymotic death-rate above that of 1894. Further observations on this subject will be found in the remarks on the meteorology of 1895.

Respiratory Diseases.—Under this heading are included bronchitis, pneumonia, and pleurisy, which

together tabulate 396 deaths, being an increase on 1894 of 99. The numbers for the four preceding years were 499, 490, 321, and 297 respectively. The higher rates which prevailed in 1891-2 were due to the epidemic of influenza which in so many cases proved fatal by subsequent or concurrent attacks of pneumonia. See also remarks on the winter of 1895.

Phthisis or pulmonary consumption caused 185 deaths, against 168, 134, 135, and 141 in the preceding four years. Among the other causes of death in 1895, one each was referred to erysipelas and pyæmia and 175 to heart disease. I pointed out last year that the deaths from heart disease is a constantly increasing factor, and this year's Report confirms it. The figures for the three previous years are 117, 128, and 163.

The deaths referred to different forms of violence within the Borough are 38, against 49, 45, 39, and 39 in the preceding four years. These 38 deaths are equal to 2·1 per cent. of the total deaths from all causes and to a rate of 0·40 per thousand of the estimated population. (For details see Table 4.)

During the year 1895, 96 deaths were registered on the authority of the Coroner's Certificate, being inquest cases. These are equal to 5·3 per cent. of the total deaths, against 5·1 in the previous year and 3·5 in the year 1893.

The causes of 37 of the 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 2·0 per cent. of the total deaths, against

5.1, 5.5, 4.5, 4.3, and 4.5 in the preceding five years. This is a gratifying improvement and the reward of continuous efforts of many years.

Influenza.—37 deaths are recorded as being caused by this disease, against 30, 19, 15, and 22 in the years 1891-2-3-4. As in former years so also in this, the deaths are not distributed equally over the year, but occur chiefly in the winter or spring months. In the year under notice the disease broke out in the middle of February and had reached its maximum in the second week of March in which month, out of the total of 37 deaths, 28 were registered. Its decline was then rapid, and it had disappeared in an epidemic form by the end of April. In Table A is seen the distribution of deaths in the Wards of the Borough. There is no marked incidence in any part; Ovenden alone is exempt. The deaths at the higher age-periods come out again as in former years. Out of a total of 37 deaths, 16 occurred between the ages of 25 and 60; the same number also took place at the ages of 60 and upwards. As in previous years, hand-bills with full instructions were freely distributed throughout the town, and, I believe, rendered good service.

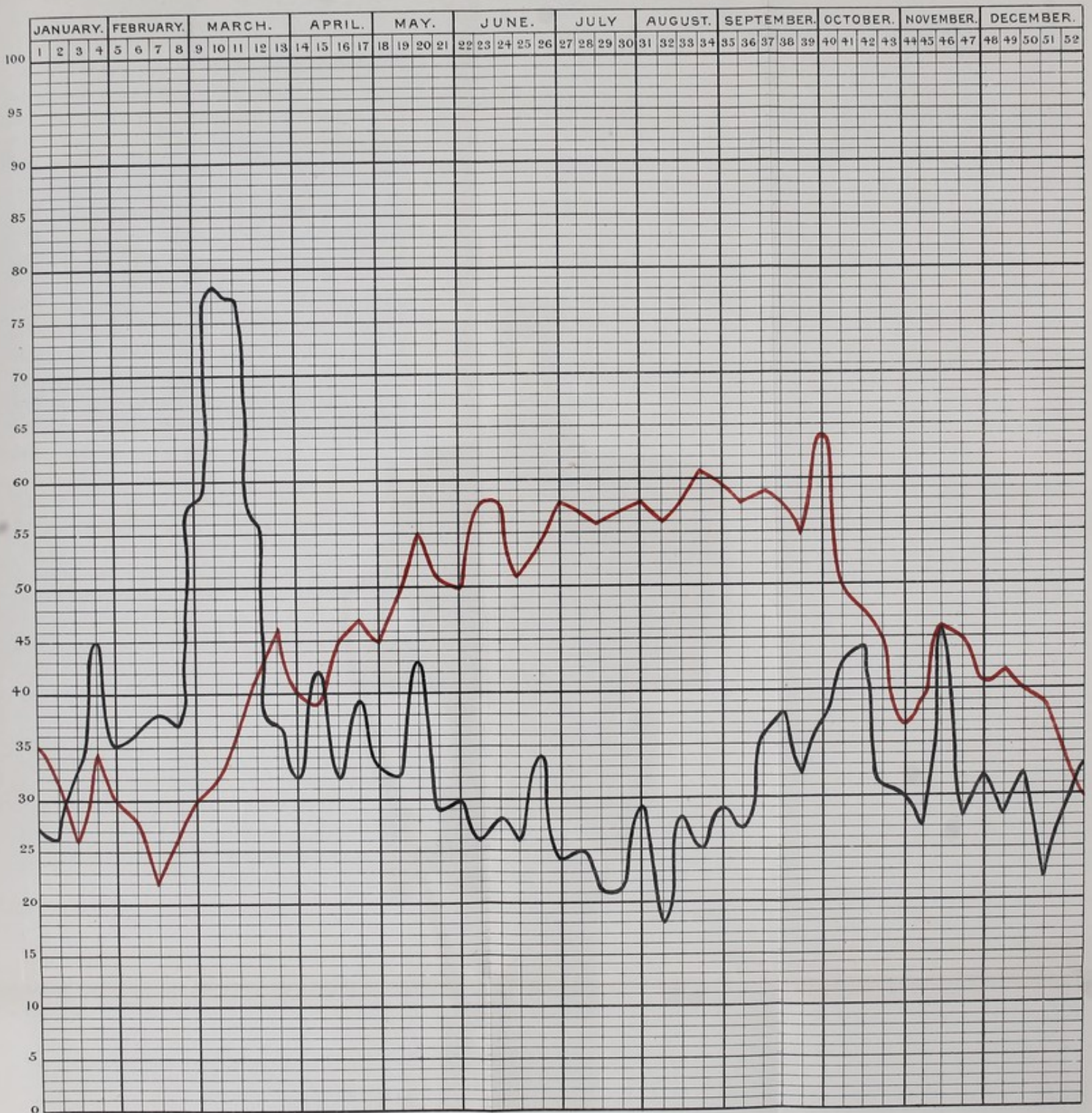
The Borough Fever & Small-pox Hospitals.—On reference to Table 6, page 31, it will be found that on January 1st 3 patients suffering from small-pox were the only inmates of the Hospitals. 71 patients have been admitted during the year: 39 of typhoid fever, 25 of scarlet fever, and 7 others. The total deaths numbered 11, and 5 remained in the Hospital on Dec. 31st. The death-rate per cent. of cases admitted during the year is 14.8, the mean for the last 23 years being 13.65. The case mortality would be considerably reduced if we could have the patients at an earlier stage of the disease; some

have died on the day of admission and others on the second day, but we are hoping that as the advantages of the Hospital become more known and appreciated the objections will pass away, patients will be sent sooner, and the Staff will have a better chance of showing of what they are capable. It does not take much skill to put a screen round a bed and then send for the porter to remove the corpse to the Mortuary. (For the proportion of patients sent into Hospital to those notified see Table B.)

In my last Report I had the pleasure of stating that you had decided to furnish the newly-erected Nurses' Homes, and I am now pleased to write that the appointments have been carried out with taste and generosity, and for the greater part of the year the Staff has been in the undisputed and happy enjoyment of them, and I know they gratefully appreciate the comforts which you have provided them.

The changes in the *personnel* of the Staff have been few during the year ; one nurse has left to be married and her place filled by a new one. The present Staff consists of four nurses, four servants, one porter, and Miss Robison, the matron, who has occupied her present post for six years 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 of the Rev. W. L. Stock, Curate-in-Charge of the Caddy Field Mission, in whose district the Hospital is situate, 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 ministrations.



NOTES:

Black = Curve of Deaths.

Red = Curve of Temperature.

The Numbers in the Column on the left hand give, in the case of the Black curve, the Weekly Number of Deaths. In the case of the Red, they give the Mean Temperature of the Week as deduced from the readings of the Maximum and Minimum Thermometers to the nearest degree.

The Meteorology of the year and its influence on the Death-rate.—The greater part of the increase in the number of deaths for 1895 over its predecessor may be accounted for by the effect of the unusually low temperature in the first quarter of the year, and also of the abnormal heat and dryness in the month of September. I would call your attention to the chart which is appended showing the direct relation of cause and effect between a falling barometer and the death-rate.

The figures as given by Mr. Glaisher, of the Royal Observatory, in his first quarterly Report for 1895, are very significant. He says—"The most remarkable feature of the very severe period from January 27th to February 18th was the long succession of very low night temperatures, and so far as I know such a series of 23 consecutive low night temperatures is unprecedented." The three lowest in the Table are all shown on the same day, February 8th. The lowest of all was Hereford, which was $1^{\circ}6$ below zero, and Halifax closely follows with $1^{\circ}0$ below zero, and Mr. Glaisher adds that the temperature at Hereford on the day in question was the lowest he had ever had to report during the 50 years he had furnished the Returns. It has been suspected by some persons for a long time that Halifax was not only a cold place, but very much colder than neighbouring towns, and the records for the first quarter of 1895 seem to corroborate this idea, for we find that the mean of the 33 days above referred to was at Bradford 22.3, Hull 20.5, and Leeds 23.2, while Halifax was as low as 14.8, in fact there were only two lower, viz. Salisbury 14.0 and Barnet 14.1. A look at the chart will show that although the rise of the mortality is immediate the effects of the low temperature go on accumulating for weeks after the extreme cold has passed away, in fact the

death-rate had not fallen to its normal until the end of March.

As the lungs are the chief citadel attacked by cold the following figures giving the number of deaths at six groups of ages show the age-periods which suffered most, and it comes out as it has always that up to 30 years of age cold has not much effect on the mortality; but after that period the rise is gradual and progressive; so that of the increase of 72 deaths from bronchitis in 1895 at all ages over 1894, 56 of them were of persons aged 60 and upwards.

TABLE SHOWING THE INCREASE IN THE NUMBER OF DEATHS FROM LUNG DISEASES AT THE HIGHER AGE-PERIODS IN 1895.

	All Causes.	0-1.	1-5.	5-15.	15-25.	25-60.	60 and upwards.
Bronchitis ...	185	34	20	2	...	45	84
1895 ...	257	31	14	1	4	67	140
Pneumonia...	108	26	22	2	4	37	17
1895 ...	140	17	31	4	4	61	23

These observations do not hold good with regard to pneumonia, as a glance at the figures will show, for although there is an increase of 32 deaths at all ages over 1894, only 6 of them were of persons aged 60 and upwards, but 24 occurred between the ages of 25 and 60.

If the cold wave of the first quarter of the year was unprecedented, equally so were the climatic conditions of

the month of September, and to these we ascribe the 48 deaths from diarrhœa that occurred in that month and the first fortnight in October. These conditions consist of a high barometric pressure, continued high atmospheric temperature, excessive diurnal range, diminished rainfall, and low wind velocity. A glance at the accompanying Table, prepared by Mr. Whiteley, will enable one to see that most of these conditions were present during the period above referred to. The barometric pressure stood at the high average of 29·45 inches; the mean thermometer recorded 57·8 degrees; the diurnal range averaged 16·2 degrees, and during the last week in September was as high as 20·8 degrees; the mean moisture per cent. was 78·0, and the wind velocity was very low. The rainfall was 1·42 inches, and for three weeks practically nil. The highest recorded temperature in the shade for the period we are considering was in the fourth week of September, viz. 78·7, and the lowest 38·0 on the 22nd.

A study of these figures show that the meteorology of the year is closely allied to the mortality, and the question naturally arises, can we do anything to mitigate the effects of either extremes of heat or cold? It is obvious that the latter is largely a personal matter, and will depend on the "comfort" (using the term in a wide sense) which the people can command. But the former may be regarded somewhat differently, for the diseases which accompany a high atmospheric temperature—chiefly bowel disorders—are supposed to have a microbic origin, and are largely aggravated by insanitary conditions. It is our business then to see that we have no such insanitary conditions in our midst in which specific germs can be generated and disease spread.

BAROMETRICAL READINGS TAKEN AT THE PUBLIC LIBRARY, BELLE VUE, BY MR. WHITELEY.

	Barometrical Mean Pressure at 32°.	Highest Temperature Mean.	Mean Lowest Temperature	Range of Temperature	Highest Temperature during Month.	Lowest Temperature during Month.	Monthly Range of Temperature	Mean Temperature of Month.	Mean Humidity.	Rainfall.	Wind Velocity.
July, 1892	Inches. 29.345	61.7	49.2	12.5	80.3	40.9	39.4	54.1	100 = Saturation 75.3	2.24	0.8
" 1893	29.208	66.1	52.1	14.0	77.7	47.0	30.7	57.3	74.1	2.31	1.4
" 1894	29.207	66.1	51.7	14.4	76.3	47.0	29.3	57.8	73.0	3.00	0.6
" 1895	29.140	63.1	50.8	12.3	74.4	46.5	27.9	55.6	74.4	6.05	0.6
Aug. 1892	29.213	62.9	51.5	11.4	74.0	43.5	30.5	56.1	74.0	2.75	0.7
" 1893	29.310	68.3	54.9	13.4	83.2	43.0	40.2	60.6	69.0	1.99	0.7
" 1894	29.206	60.3	50.8	19.5	64.0	42.0	22.0	54.4	80.0	2.87	0.6
" 1895	29.173	65.0	52.9	12.1	74.8	44.1	30.7	58.1	71.4	2.57	0.6
Sept. 1892	29.246	57.7	46.7	11.0	64.3	39.0	25.3	51.1	78.7	2.74	0.7
" 1893	29.152	59.6	47.2	12.4	70.3	36.3	34.0	53.1	74.1	1.83	0.5
" 1894	29.550	58.1	45.8	12.3	63.7	36.6	27.1	49.4	83.0	.34	0.4
" 1895	29.447	66.9	50.6	16.3	78.7	38.0	40.7	57.8	79.0	1.42	0.5
Means for 3rd Quarter, 1892	29.268	60.7	49.1	11.6	72.8	41.1	31.7	53.7	76.0	2.58	0.7
" 1893	29.226	64.6	51.4	13.2	77.0	42.0	35.0	57.0	72.4	2.04	1.3
" 1894	29.321	61.5	49.4	12.1	68.0	41.8	26.2	53.8	78.6	2.07	0.5
" 1895	29.253	65.0	51.4	13.6	75.9	49.5	26.4	57.1	74.9	3.34	0.8
	1	2	3	4	5	6	7	8	9	10	11

(1.) The first column of figures gives the readings of the Barometer reduced to monthly means and to the Standard Temperature of 32°.

About .700 must be added to bring them up to the readings taken at Sea Level.

(2.) The second column shows the mean temperature during the day; the third column the mean of the night.

(3.) The eighth column gives the mean temperature of the month at all hours; these numbers are deduced by combining the readings of the Max. Min. and Dry Bulb Thermometers.

Bacteriological Apparatus.—During the year you kindly allowed me to fit up a Bacteriological Laboratory in order by cultivation of the various baccilli to confirm or otherwise the cases notified. To this end I sent out circulars to the medical profession informing them of my willingness to make cultivations at any time, and also offering to provide autitoxin gratis to any medical man who notified a case. A number of the profession in the town availed themselves of this offer, and some satisfactory work has been done ; but I am sorry to say that I think more ought to have been done, and I hope that this will be the case in the future.

Taking the three principal or common zymotic diseases in their relation to one or other of the methods of house sanitation in operation in the Borough, it is found as one would have expected from the following Table that 1·5 per cent. of cases occurred in houses having old middensteads, while the Goux system gave 0·74 per cent. and the water-closet system 0·38 per cent., or, to put it in other words, a very much larger percentage of zymotic cases are found in connection with houses with middensteads than of the other two systems in general use in the town. This result will only encourage us to continue the practice of past years in reducing the former as much as possible. The approximate numbers at the present time are, old middens 712, W.C.'s 4,200, and Goux (pail) closets 14,000.

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

DISEASES.	Number of Cases notified.	Drainage		Ventilation		Old Midden.	Goux Closet.	Water Closet.	Probable or Assigned Cause.				
		Good	Bad	Good	Bad				From a Cold.	From a previous Case in the same House or School.	From Defective Drains.	Contracted from House.	No Trace.
Scarlet Fever ... Deaths, 6	52	46	6	52	...	8	34	5	3	16	6	...	27
Typhoid Fever .. Deaths, 16	58	39	19	58	...	1	49	6	7	7	19	12	13
Diphtheria ... Deaths, 12	29	18	11	29	...	2	21	5	1	2	12	1	13
Total ..	139	103	36	139	...	11	104	16	11	25	37	13	53
Total Deaths, 34													

Lodging Houses.—Although the lodging houses are not under the Health Committee at the request of the Watch Committee I accompanied Sergeant Osborne, the Lodging House Inspector, and Mr. Travis, Chief Sanitary Inspector, in a thorough survey of every registered house, and gave a detailed report to the Watch Committee, which I find has been acted upon in the closing of some of the houses and the improving of others.

Midsummer Fair—In order to see that no infectious disease was brought and left in the town by these peripatetics, 52 vans were inspected on the fair ground by Mr.

Travis and myself and found entirely free from such diseases.

Congress.—In September last Alderman Coe, J.P., with the Chief Inspector and myself, represented our town at the Congress of the British Institute of Public Health at Hull. A full report of the proceedings was presented to you shortly afterwards and printed and circulated through the Members of the Council.

Sanitary Legislation in 1895.—Political parties were so unsettled during the year under notice that very little time was found for useful Sanitary Measures. The Bill introduced by Mr. Asquith, however, escaped the fate of many others, and the Factory and Workshops Act became law, and thereby remedies many defects of former Acts. The benefits are mostly on the side of the workers. The provisions of the Act are in full operation in the hands of the Inspectors.

Water Supply.—Although this important matter is not strictly under the direction of the Health Committee, yet it is so closely allied to the well-being of the town that it cannot entirely ignore it. Several cases of lead poisoning were brought to the knowledge of the Sanitary Officers during the year, and on enquiry were found to be caused by the long length of lead pipe connecting the house supply to the mains. During the year samples of water have been taken not only from the Reservoirs but also from the chief tributaries with a view of ascertaining the amount of acidity in each case. For this purpose Dr. Houston, representing the Local Government Board, accompanied Mr. Paskin, the Waterworks Engineer, and myself. During the two days we went over a large portion of our watersheds, and Dr. Houston took away with him

samples for analysis ; his report however is not yet to hand. The duplicate samples which we also took were submitted to our Borough Analyst, and his report was before you in September last. As a matter of fact, it was found that the amount of acidity was in proportion to the amount of contact the water had with "peat," and in the case of the flat land where the water moved slowly the reaction was very marked. I believe it has since been stated that this action of the peat on water is due to the presence of a microbe.

The obvious lesson taught by this condition of the water is the discontinuance of the use of all lead pipes as far as possible.

Following my Report is the one by the Chief Sanitary Inspector, and also the Annual Report of the Borough Analyst, from a perusal of which I think you will see that no section of the Health Department is being neglected.

Thanking you, as in the past, for much help and sympathy in the work.

I am, Gentlemen,

Your obedient Servant,

D. AINLEY,

Medical Officer of Health.

TABLE OF POPULATION, BIRTHS, AND OF NEW CASES OF INFECTIOUS SICKNESS, COMING TO THE KNOWLEDGE OF THE MEDICAL OFFICER OF HEALTH, DURING THE YEAR 1894, IN THE URBAN SANITARY DISTRICT OF THE BOROUGH OF HALIFAX; CLASSIFIED ACCORDING TO DISEASES, AGES, AND LOCALITIES.

(B)

NAMES OF LOCALITIES adopted for the purpose of these Statistics; Public Institutions being shown as separate localities.	POPULATION AT ALL AGES.		Registered Births.	NEW CASES OF SICKNESS IN EACH LOCALITY COMING TO THE KNOWLEDGE OF THE MEDICAL OFFICER OF HEALTH.													NUMBER OF SUCH CASES REMOVED FROM THEIR HOMES IN THE SEVERAL LOCALITIES FOR TREATMENT IN ISOLATION HOSPITAL.																				
	Census 1891.	Estimated to middle of 1894.		1	2	3	4	5	FEVERS.				10	11	12	13	1	2	3	4	FEVERS.				10	11	12	13									
									Typhus.	Enteric or Typhoid.	Continued.	Relapsing.									Puerperal.	Cholera.	Erysipelas.	Typhus.					Enteric or Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.			
(a.)	(b.)	(c.)	(d.)	Small-pox.	Scarlatina.	Diphtheria.	Membranous Group.	Typhus.	Enteric or Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Small-pox.	Scarlatina.	Diphtheria.	Membranous Group.	Typhus.	Enteric or Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.												
Ovenden Ward - - -	6469	6800	181	-	10	3	-	-	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Northowram Ward - - -	6463	6699	150	-	17	5	-	-	2	-	-	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
North Ward - - -	7416	7694	174	7	6	-	-	-	3	1	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Central Ward - - -	8658	8911	207	4	9	7	-	-	3	-	-	1	-	3	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
West Ward - - -	9017	9324	186	2	8	6	-	-	4	-	-	1	-	2	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
South Ward - - -	8085	8353	160	-	5	3	-	-	10	-	-	-	-	-	1	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
East Ward - - -	8417	8572	153	2	6	1	-	-	5	-	-	-	-	-	3	1	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Southowram Ward (H)	7042	7342	195	-	20	1	-	-	3	1	-	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Skircoat Ward - - -	7232	7587	180	1	14	6	-	-	6	-	-	-	-	1	5	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pellon Ward - - -	7332	7575	196	-	7	4	-	-	6	1	-	1	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kingston Ward - - -	6732	6904	187	-	5	4	-	-	2	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Illingworth Ward - - -	6969	7100	133	-	7	3	-	-	6	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Workhouse - - -	-	-	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Infirmery - - -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Borough Hospital - - -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTALS - - -	89832	92861	2128	16	114	43	-	-	52	3	-	6	-	-	16	32	-	-	-	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

The Notification of Infectious Diseases has been compulsory in the District since 1882.

The Isolation Hospital used by the sick of the District is marked (H) and is situate in Southowram Ward.

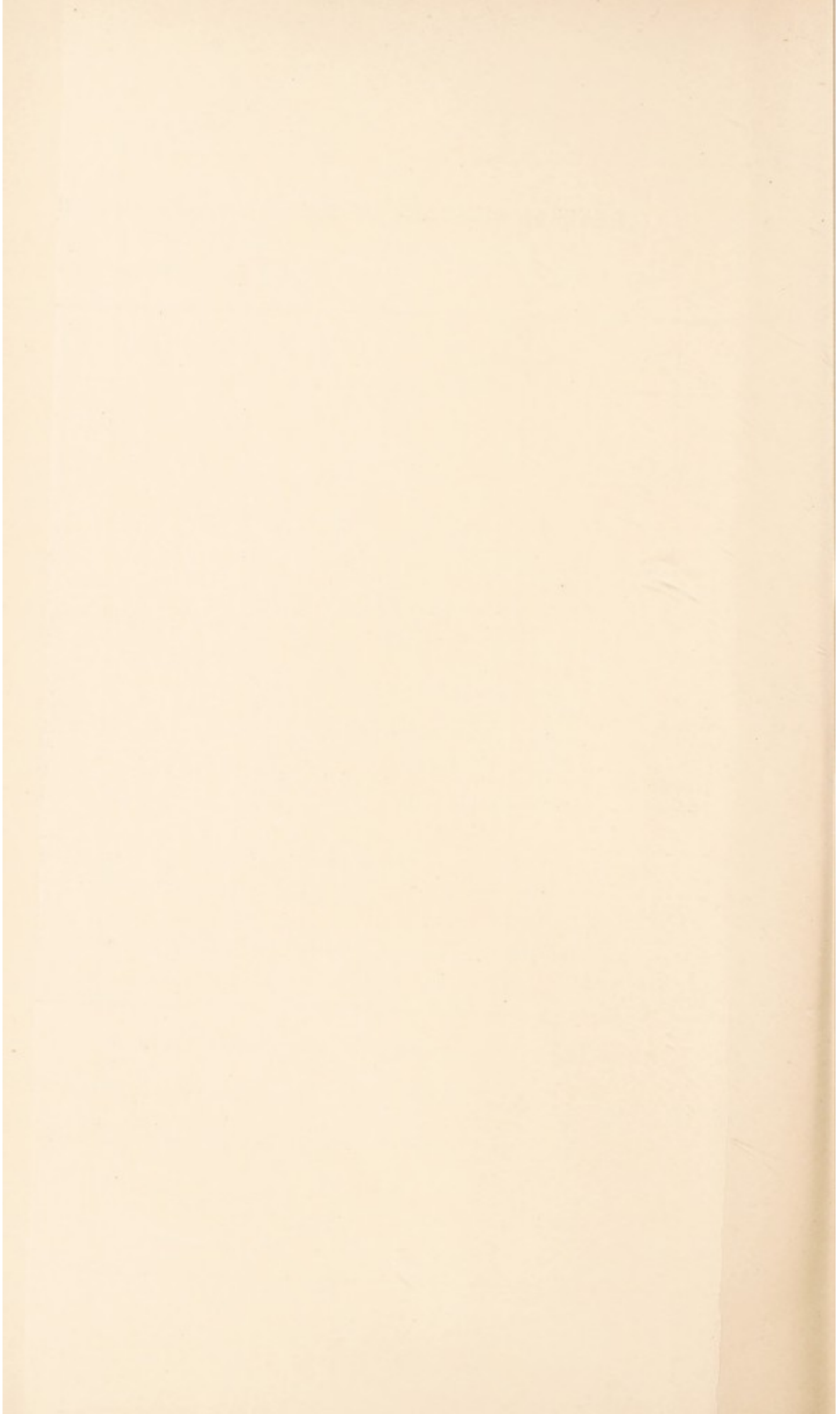


TABLE 1.—POPULATION, BIRTHS, DEATHS, AND INFANT MORTALITY IN THE
BOROUGH OF HALIFAX, 1880-1895.

Years.	Population.	Births.	Deaths.	Rate per 1000 living.		Deaths of Infants under One Year to 1000 Births.
				Births.	Deaths.	
1880	72987	2454	1632	33·6	22·4	156
1881	73845	2338	1589	31·7	21·5	155
1882	74713	2247	1519	30·1	20·3	167
1883	75591	2162	1491	28·6	19·7	150
1884	76479	2262	1786	29·6	23·4	180
1885	77325	2231	1508	28·9	19·5	133
1886	78287	2255	1775	28·8	22·7	173
1887	79207	2249	1660	28·4	21·0	149
1888	80138	2282	1571	28·2	19·6	154
1889	81080	2192	1667	25·7	20·6	176
1890	82034	2277	1827	27·8	22·3	173
1891	83109	2160	1877	26·0	22·6	172
1892	84097	2169	1642	25·8	19·5	163
1893	92000	2254	1591	24·5	17·2	174
1894	92800	2128	1522	22·9	16·3	135
1895	93813	2186	1803	23·3	19·2	158

TABLE 2.—DEATH RATES IN GROUPS OF AGES IN THE BOROUGH OF HALIFAX,

1880-1895.

Years.	Death-Rate per 1000 living in each group.					
	All Ages.	0-5.	5-15.	15-25.	25-60.	60 and upwards.
1880	22.4	70.3	...	...	...	72.9
1881	21.5	68.0	...	...	...	77.5
1882	20.3	62.9	4.3	7.0	13.7	74.2
1883	19.7	49.6	5.1	5.7	14.0	90.1
1884	23.4	70.0	5.2	5.3	16.3	85.5
1885	19.5	50.3	4.9	5.2	14.7	83.3
1886	22.7	68.5	5.3	6.0	14.9	92.4
1887	21.0	54.8	4.0	6.0	16.2	88.2
1888	19.6	55.4	3.6	3.9	13.0	93.8
1889	20.6	59.7	3.5	4.6	15.3	84.2
1890	22.3	59.1	4.3	6.0	17.5	94.3
1891	22.6	63.3	4.2	5.6	16.4	96.6
1892	19.5	54.0	3.9	4.4	13.6	89.2
1893	17.2	62.0	2.1	3.0	10.7	75.6
1894	16.3	50.7	2.6	4.8	14.5	74.9
1895	19.2	56.5	2.1	5.8	17.3	92.9

TABLE 3.—SHOWING DEATHS FROM ZYMOTIC DISEASES IN THE BOROUGH OF HALIFAX,
1880-1895.

Years.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria	Whooping Cough.	Typhus.	Enteric Fever.	Ill- Defined Fever.	Diarrhea and Dysentery.	Principal Zymotic Diseases.	Death-rate per 1000 living, from these Diseases.
1880	...	15	44	4	10	...	19	...	22	114	1.56
1881	6	6	102	4	17	...	21	...	6	162	2.19
1882	...	11	21	2	11	1	22	...	25	93	1.24
1883	...	1	9	3	7	1	26	5	8	60	0.79
1884	...	57	28	3	33	1	22	2	38	184	2.41
1885	1	...	32	7	12	1	12	2	20	87	1.13
1886	...	85	9	16	11	1	13	2	38	175	2.22
1887	...	14	33	6	11	...	12	...	23	99	1.24
1888	1	10	21	3	35	...	9	1	14	94	1.16
1889	1	70	7	7	2	...	22	3	16	128	1.58
1890	...	25	24	12	15	1	13	1	13	104	1.27
1891	...	39	36	2	58	...	22	...	2	159	1.91
1892	19	64	7	14	9	...	7	...	7	127	1.51
1893	33	5	3	18	32	...	12	...	38	141	1.7
1894	4	32	4	11	21	...	5	...	4	81	0.9
1895	...	9	6	12	24	...	17	...	53	121	1.29

TABLE 4.—DEATHS FROM VARIOUS CAUSES AT SIX GROUPS OF AGES,

FOR THE 52 WEEKS ENDING DECEMBER 28TH, 1896.

	All Ages.	Under 5 years.		5-15.	15-25.	25-60.	60 and upwards.
		0-1.	1-5.				
All Causes	1810	351	186	60	100	556	557
Small Pox	...	...	...	...	...	...	...
Measles	9	2	7	...	...	...	...
Scarlet Fever	6	...	4	1	1	...	...
Diphtheria	11	...	8	3	...	...	...
Whooping Cough	24	8	16	...	...	...	...
Typhus	...	...	...	...	...	...	...
Enteric Fever	16	...	1	...	4	11	...
Simple and undefined Fever	1	...	1	...	...	...	...
Diarrhoea, Dysentery	53	27	16	...	...	4	6
Simple Cholera	2	1	...	...	...	1	...
Veneral Affections	...	...	...	...	...	...	...
Erysipelas	1	...	...	...	...	1	...
Pyæmia, Septicæmia	1	...	...	...	...	1	...
Puerperal Fever	2	...	...	...	...	2	...
Parasitic Diseases—Thrush	2	2	...	...	...	...	...
Dietetic Diseases—Starvation	...	...	...	...	...	...	...
Dietetic Diseases—Alcoholism, Del. Trem.	5	...	...	...	...	4	1
Rheumatic Fever, Rheumatism of Heart	3	...	...	...	2	...	1
Rheumatism	7	...	...	...	1	4	2
Rickets	4	2	2	...	...	...	...
Cancer	78	3	...	3	...	42	30
Tabes Mesenterica, Marasmus	47	34	9	3	1	...	...
Tubercular Meningitis	29	7	14	4	1	3	...
Phthisis	163	2	4	8	36	97	16
Scrofula, Tuberculosis	28	6	4	3	3	12	...
Other Constitutional Diseases	36	3	2	3	2	17	9

Premature Birth, Inanition	94	1	...	...	...	...	112	...
Congenital Malformation	7	...	...	...	...	...	28	...
Old Age, Senile Decay	...	...	...	...	...	...	...	...
Apoplexy	...	...	...	...	...	...	...	...
Epilepsy	...	...	...	...	...	...	...	...
Convulsions	56	9	2	...	...	...	...	...
Other Diseases of Brain and Nervous System	8	7	3	...	...	...	37	...
Diseases of Circulatory System, Heart Disease	1	2	5	...	...	...	94	...
Croup	8	6	2	...	...	...	...	...
Bronchitis	257	14	1	...	...	...	140	...
Pneumonia	140	31	4	...	...	...	23	...
Pleurisy	3	...	...	...	...	...	...	...
Other Diseases of Respiratory System	6	1	1	...	...	...	1	...
Dentition	14	5	...	...	...	...	...	...
Sore Throat—Quinsy, Laryngitis	14	7	2	...	...	...	...	...
Enteritis	20	4	...	...	...	...	1	...
Peritonitis	35	3	4	...	...	...	10	...
Diseases of Liver	19	1	...	...	...	...	8	...
Other Diseases of the Digestive System	18	5	...	...	...	...	5	...
Diseases of Lymphatics, &c.	...	...	...	...	...	...	...	...
Diseases of Urinary System	28	2	...	...	...	...	4	...
Diseases of Generative System	2	...	...	...	...	...	2	...
Accidents of Childbirth	9	...	...	...	...	...	...	...
Diseases of Locomotive System	1	...	...	...	...	...	...	...
Diseases of Integumentary System	2	...	...	...	...	...	1	...
Fractions and Contusions	10	...	...	...	...	...	4	...
Burns and Scalds	6	5	1	...	...	...	...	...
Drowning	1	...	...	...	...	...	...	...
Suffocation	2	...	1	...	...	...	...	...
Accident, otherwise or not described	6	...	...	...	...	...	1	...
Poison	3	...	...	...	...	...	1	...
Drowning	6	...	1	...	...	...	1	...
Otherwise, or not described	4	...	...	...	...	...	1	...
All other causes	2	...	...	...	...	...	1	...
Influenza	37	1	...	...	...	...	16	...

Suicide Accident.

TABLE 5.—SHOWING WHETHER MOTHERS OF CHILDREN WHO HAVE DIED UNDER FIVE YEARS OF AGE IN 1895 WORK OUT, OR ARE ENGAGED AT HOME.

WARDS.			At Home.	Work Out.
OVENDEN	...	...	42	...
NORTHOWRAM	...	...	33	4
NORTH	...	...	31	13
CENTRAL	..	...	52	3
WEST	...	...	34	2
SOUTH	..	...	32	1
EAST	...	...	31	5
SOUTHOWRAM	...	...	49	2
SKIRCOAT	...	...	31	...
PELLON	...	...	45	4
KINGSTON	...	...	34	...
ILLINGWORTH	...	...	34	3
WORKHOUSE	..	...	2	3
INFIRMARY	...	...	4	1
HOSPITAL	...	...	...	...
			*454	41
Total, 1894	...	...	418	42
„ 1893	...	...	453	47

* The particulars of 35 deaths in addition to the above were not given.

TABLE 6.—SHOWING THE NUMBER OF CASES ADMITTED INTO THE BOROUGH INFECTIOUS DISEASES HOSPITALS DURING THE YEAR 1895.

	Small-pox.	Typhoid.	Scarlatina.	Others.	Total.
Cases remaining in Hospital Jan. 1st, 1895 ...	3		...	...	3
Cases admitted during the year	...	39	25	7	71
Total ...	3	39	25	7	74
Recoveries ...	3	32	22	6	63
Deaths ...	...	7	3	1	11
Cases remaining in Hospital Dec. 31st, 1895 ...	...	4	1	...	5

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 ...	682	29	527	62	510	109	1919
Number of Deaths since the opening ..	71	14	116	8	41	12	262

Percentage of Deaths from all causes to whole number
of Cases admitted since the opening ... 13.65

TABLE 7.—SHOWING INQUESTS IN THE BOROUGH DURING THE YEAR 1895.

Verdicts.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Accidental Deaths	5	1	2	...	4	1	2	3	2	2	3	1	26
Natural Causes	6	7	3	7	4	2	6	3	..	4	6	6	54
Found Drowned	1	...	1	...	...	1	...	...	1	...	...	...	4
Suicide by various means	...	1	...	1	1	2	1	...	3	1	...	...	10
Other Verdicts	..	...	...	...	...	1	...	...	...	1	...	...	2
Murder	...	...	...	...	..	...	...	...	...	..	..	...	...
Total 1895	12	9	6	8	9	7	9	6	6	8	9	7	96
" 1894	13	7	7	6	2	6	10	4	3	6	3	11	78
" 1893	7	2	5	4	5	6	2	3	3	3	10	6	56
" 1892	3	1	11	10	4	7	6	6	6	3	6	6	69
" 1891	3	8	3	4	6	1	6	6	1	3	2	3	46
" 1890	4	8	7	3	3	4	4	8	3	3	3	6	56
" 1889	3	4	5	6	5	5	7	2	5	1	6	3	52
" 1888	3	6	2	1	5	8	3	3	2	3	1	2	39
" 1887	5	3	4	3	3	4	3	2	3	3	3	2	38
" 1886	1	...	7	5	5	7	6	...	4	4	2	1	43
" 1885	6	6	4	8	4	3	5	3	3	5	3	3	53
" 1884	...	6	5	8	8	10	6	5	5	6	9	5	73
" 1883	2	2	...	4	4	5	3	7	6	1	8	4	46

TABLE 8.—SHOWING THE NUMBER OF ZYMOTIC DISEASES NOTIFIED BY MEDICAL PRACTITIONERS IN EACH WARD OF THE BOROUGH, FOR THE YEAR ENDING DEC. 31ST, 1895, AND THE RATE PER CENT. OF POPULATION AND THE COMPARISON WITH THE SIX PREVIOUS YEARS.

	Small-pox.	Cholera.	Typhus Fever.	Enteric Fever.	Scarlet Fever.	Continued Fever.	Puerperal Fever.	Diphtheria.	Relapsed Fever.	Total.	Rate per centage of Population.
OVENDEN	5	1	...	1	7	...	14	0·20
NORTHOWRAM	3	4	..	...	3	...	10	0·14
NORTH	6	...	1	..	2	..	9	0·11
CENTRAL	3	10	1	1	1	...	16	0·18
WEST	5	4	...	...	4	...	13	0·13
SOUTH	5	7	...	...	2	...	14	0·16
EAST	3	2	...	1	...	...	6	0·7
SOUTHOWRAM	13	...	...	...	..	...	13	0·17
SKIRCOAT	6	4	...	..	3	...	13	0·16
PELLON	2	3	1	...	2	...	8	0·10
KINGSTON	2	5	...	1	1	...	9	0·12
ILLINGWORTH	5	12	...	...	4	...	21	0·29
Total, 1895...	58	52	3	4	29	..	146	0·15
„ 1894...	16	...	...	52	114	3	6	43	...	234	0·25
„ 1893...	346	5	...	69	150	5	6	57	...	638	
„ 1892...	159	...	1	56	256	9	4	71	2	558	
„ 1891...	...	1	...	99	429	14	5	23	2	573	
„ 1890...	67	328	8	8	62	1	476	
„ 1889...	2	...	...	94	153	18	1	31	3	302	
PUBLIC INSTITUTIONS.											
WORKHOUSE...	3	2	...	...	2	...	7	
INFIRMARY	1	...	...	...	1	..	2	

TABLE 9.—DEATHS OCCURRING WITHIN THE DIVISION
OR DISTRICT AMONG PERSONS NOT BELONG-
ING THERETO :—

The following are included in the Infirmary :—					
SOWERBY	...	...	...	...	3
NORTHOWRAM...	...	...	...	...	1
MIDGLEY	...	...	...	...	1
STANSFIELD	...	...	...	...	1
SKIRCOAT (R.S.D.)	...	...	...	...	1
SOYLAND	...	...	...	...	1
LIGHTCLIFFE	...	...	...	..	1
LUDDENDEN	...	...	...	...	2
NEWCASTLE	...	...	...	...	1
RIPPONDEN	...	...	...	...	1
HIPPERHOLME...	...	...	..	...	1
WARLEY	...	...	...	...	1
SOUTHOWRAM (R.S.D.)	...	...	...	...	1
THORNTON	..	...	...	...	1
SIDDAL (R.S.D.)...	...	...	...	...	1
QUEENSBURY	...	...	...	...	1
TODMORDEN	...	...	...	...	1
SOWERBY BRIDGE	...	...	...	...	1
Total	...	...	...	...	21
The following is included in Hospital :—					
QUEENSBURY	...	..	..	..	1

(A)

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 FIFTY-TWO WEEKS ENDING DECEMBER 28TH, 1895.

Main data table with columns for localities, population, births, mortality from all causes, and mortality from specific diseases. Rows include various wards like Ovenden Ward, Northowram Ward, etc., and a total row.

* 926 Males and 877 Females.

TABLE OF POPULATION, BIRTHS, AND OF NEW CASES OF INFECTIOUS SICKNESS, COMING TO THE KNOWLEDGE OF THE MEDICAL OFFICER OF HEALTH, (B) DURING THE YEAR 1895, IN THE COUNTY BOROUGH OF HALIFAX; CLASSIFIED ACCORDING TO DISEASES, AGES, AND LOCALITIES.

<small>NAMES OF LOCALITIES adopted for the purpose of these Statistics; Public Institutions being shown as separate localities.</small> (a.)	POPULATION AT ALL AGES.		Registered Births. (d.)	NEW CASES OF SICKNESS IN EACH LOCALITY COMING TO THE KNOWLEDGE OF THE MEDICAL OFFICER OF HEALTH.													NUMBER OF SUCH CASES REMOVED FROM THEIR HOMES IN THE SEVERAL LOCALITIES FOR TREATMENT IN ISOLATION HOSPITAL.																		
	Census 1891. (b.)	Estimated to middle of 1895. (c.)		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						
				Small-pox.	Scarlatina.	Diphtheria.	Membranous Group.	FEVERS.									Cholera.	Erysipelas.	Measles.	Small-pox.	Scarlatina.	Diphtheria.	Membranous Group.	FEVERS.									Cholera.	Erysipelas.	Measles.
								Typhus.	Etiotic or Typhoid.	Continued.	Relapsing.	Puerperal.											Typhus.	Etiotic or Typhoid.	Continued.	Relapsing.	Puerperal.								
Ovenden Ward	6469	6840	193	...	1	7	...	...	5	...	...	1	...	...	...	...	...	...	...	...	3	...	...	...	...	...	...	...
Northowram Ward	6463	6853	182	...	4	3	...	...	5	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...
North Ward	7416	7716	182	...	...	2	...	...	6	1	...	...	...	...	...	...	...	...	...	...	4	...	...	...	...	...	...	...
Central Ward	8658	8837	202	...	10	1	...	...	3	1	...	1	...	...	...	...	...	...	...	...	6	...	1	...	...	...	...	...		
West Ward	9017	9576	177	...	2	2	...	...	2	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
South Ward	8085	8510	172	...	7	1	...	...	3	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...
East Ward	8417	8540	121	...	2	...	...	...	3	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Southowram Ward (H)	7042	7349	211	...	...	...	...	...	13	...	...	...	...	...	...	...	...	...	...	...	8	...	...	...	...	...	...	...
Skircoat Ward	7232	7774	185	...	4	3	...	...	6	...	...	...	...	...	...	...	...	...	...	...	3	...	...	...	...	...	...	...
Pellon Ward	7332	7643	195	...	3	2	...	...	2	1	...	...	...	...	...	...	...	...	...	...	1	...	2	1	...	...	...	...			
Kingston Ward	6732	7069	186	...	5	1	...	...	2	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Illingworth Ward	6969	7106	153	...	12	4	...	...	5	...	...	...	...	...	...	...	...	...	...	...	4	...	...	3	...	...	...	...			
Workhouse	...	...	27	...	2	2	...	...	3	...	...	...	...	...	...	...	...	...	...	...	2	2	...	...	...	...	...	...	
Infirmary	...	...	...	...	...	1	...	...	2	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Borough Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
TOTALS	89832	93813	2186	...	52	29	58	3	...	4	2	19	5	35	2	2						

The Notification of Infectious Diseases has been compulsory in the District since 1882.

The Isolation Hospital used by the sick of the District is marked (H) and is situate in Southowram Ward.

County Borough of Halifax.

THE

Sanitary Inspector's Report

FOR THE

Year ending 31st December, 1895.

*To the Chairman and Members of the Health
Committee.*

GENTLEMEN,

I have the pleasure to submit for your consideration, my Twenty-first Annual Report on the operations of the Health Department for the year ending December 31st, 1895.

TOWN HALL, HALIFAX,

January, 1896.

HEALTH DEPARTMENT.

Summary of Work done.

Total number of Visits made by the District Inspectors ...	37789
Total number of Visits to Houses	10343
Number of Visits to Houses with reference to Defective Drainage	4380
Number of Visits to Houses with reference to Cleanliness, Overcrowding, &c.	774
Number of Visits to Houses with reference to Infectious Diseases	584
Rooms Disinfected	267
Cases removed to the Hospital	71
Infectious Diseases reported	146
Nuisances reported	3755
Nuisances abated	3726
Notices served	1180
Letters served (referring to Nuisances, &c.	424
Summonses taken out	1
Smoke observations taken	821
Old Ashpits abolished	1
Old Ashpits altered to Goux System	56
Goux Closets registered	347

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 420 complaints remained on the books and in course of removal, since then 3755 have been registered and 3726 removed, leaving at the close of the year 449 to be dealt with. The following table shows the nature of nuisances registered, together with a comparison of the previous year's figures :

Nature of Nuisances.	No. Reg. during 1895.	No. Reg. during 1894.
Defective Sink Drains	476	526
„ Yard or Private Street Drains ..	292	268
„ Cellar Drains	227	308
„ Spout Drains	18	18
„ Fall Pipes	192	157
„ Street Drains	93	75
„ Roofing	45	18
„ Urinals	23	21
Bath and Lavatory Waste Pipes connected to W.C. Soil Pipes	41	219
Drains not efficiently Trapped	179	616
Sink Drains requiring Disconnecting ...	91	190
Drain Traps requiring Air Grates	2	9
Nuisances from Want of Drains	58	54
„ Water in Cellar	83	41
„ Stagnant Water	3	1
„ Smoke	20	14
„ Poultry	9	8
„ Pigeons	4	8

NUISANCES—*Continued.*

Nature of Nuisances.			No. Reg. during 1895.	No. Reg. during 1894.
Nuisances from Swine	...	...	9	8
Houses Overcrowded	...	...	31	62
„ Unfit for Habitation	..	...	8	4
„ Require Cleansing	...	...	77	123
Offensive Accumulations	...	...	100	87
„ Ashpits and Privies	...	...	43	40
„ Goux Closets	...	...	134	168
„ Ashes Tubs	...	...	161	91
„ Middensteads	...	...	9	30
„ Ashes Tub Places	...	...	2	1
„ Water Closets	...	...	214	267
Privies requiring Limewashing	...	..	150	250
Ashpits and Privies requiring Reconstruction...			66	90
„ „ in a dilapidated state	...	...	49	56
„ „ requiring proper doors	...	...	113	83
Insufficient Privy Accommodation.	..	...	31	65
Bad Smells	..	...	11	8
Cowsheds requiring Limewashing	...	...	155	92
„ „ Drainage	..	...	2	..
Miscellaneous	...	..	534	287
Total	...	...	3755	4363

The above lists do not include work carried out after mere verbal notice.

Bakehouses.

There are at present in the Borough 74 Wheatbread Bakers including Confectioners, 13 Bakers of Oatbread, 9 Muffin Bakers, and 2 Pie Makers. The Bakehouses have been regularly inspected and found to be generally in a satisfactory condition.

Milkshops.

The requirements of the said Act with reference to Milkshops have also been carried out.

Disinfectants.

25 tons of Disinfecting Powder in 4-lb. bags have been given to persons applying at the Health Office, and 130 gallons of Disinfecting Fluid in 6 and 8-oz. bottles where cases of infectious diseases existed. 20 tons of Powder used for disinfecting about gullies when emptied.

Night Scavenging.

At the commencement of the year there were no reports of ashpits that required cleansing. During the year 43 complaints have been registered and attended to, thus leaving the books again clear. The number of complaints registered show an increase of 3 on the previous year.

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 ...	347	80	288	368
February ...	95	42	151	193
March ...	644	180	481	661
April ...	330	107	243	350
May ..	471	48	285	333
June ...	431	74	260	334
July ...	544	96	238	334
August ...	153	61	147	208
September ...	493	84	250	334
October ...	543	24	269	293
November ...	134	72	200	272
December ...	511	128	255	383
Total ...	4696	996	3067	4063

The total number of Ashpits cleansed during the year is 4,696, as against 5,466 in the previous year. 56 ashpits with privies have been altered to the Goux System, 1 abolished, and ashes tubs supplied in the places of 5 dry ashpits. The above includes Ovenden and Illingworth Wards.

TABLE SHOWING THE NUMBER OF ASHPITS WITHIN
THE BOROUGH, DECEMBER 31ST, 1895.

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

Districts.	Wards.	Ashpits with Privies.	Dry Ashpits.
1	Northowram and North ..	63	54
2	Ovenden and Illingworth	485	32
3	Central and East ..	54	105
4	West and South ...	36	232
5	Skircoat and Southowram	63	50
6	Pellon and Kingston ...	11	36
	Total	712	509

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	39059	1363
February	38179	1265
March	39367	1714
April	38204	1561
May	41466	1599
June	37598	1209
July	42264	1252
August	41248	1001
September	38544	1054
October	41870	1307
November	39637	1399
December	40542	1515
Total	477978	16239

The above represents 22,761 loads of night soil (each load containing 21 closet tubs) as against 22,509 and 16,239 and 16,767 loads of ashes respectively for the preceding year.

The number of additional closets registered is 347, being a decrease of 56 on the number registered during the year 1894.

Goux Scavenging.

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

Year.	Number of Closet Tubs.	Number Registered during each year.
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	4853	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	12063	419
1893	13047	984
1894	13450	403
1895	13797	347

During the year 214 closets have been erected in connection with new property, and 101 have been altered from the old system, 14 substituted for water closets, and 18 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.
Goux Department	17213
Gasworks Department	6000
Electric Light Committee	400
Private Firms	11600
Total	35213

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

Cousin Lane Tip.

Name.	Number of Loads.
Goux Department	243
This Tip was closed April 10th, 1895.	

Mozley Tip.

Name.	Number of Loads.
Goux Department	883

Streets Scavenging.

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

	1895.	1894.
Number of Streets Swept ...	26921	29800
Area in yards	40346623	42625306
Number of Streets Watered ...	10055	5382
Loads of Water used for that purpose	10965	5969
Loads of Sweepings gathered ...	4926	5184
Loads of Snow removed from the Streets	14331	1215
Number of Gullies emptied .	133784	153411
Number of Street Drains flushed ...	709	1006

During the year 320 loads of garbage have been removed from fishmongers, fried fish shops, and green-grocers.

THE FOLLOWING TABLE SHOWS THE AMOUNT OF WORK DONE IN THIS DEPARTMENT
FROM 1882 TO 1895.

	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895
Number of Streets swept	20661	20878	22320	22457	20621	24234	25901	27149	28244	28869	27019	30700	29800	26921
„ „ watered	3294	4141	5008	5814	3592	3858	4157	8620	5337	5404	8016	7822	5382	10055
Loads of Water used	4139	5671	6561	7023	4798	5430	6255	12442	6877	6598	8057	8648	5969	10965
Loads of Sweepings gathered	4848	6247	5692	4546	4471	4855	4609	4574	6882	5102	4832	6571	5184	4926
Number of Gullies emptied	35996	39422	87317	74080	68094	74512	76661	89852	100103	122611	120004	144019	153411	133784
Loads of Snow removed from the Streets	5151	1274	617	...	29200	2843	8031	972	884	291	14564	8444	1215	14331
Drains flushed	...	...	...	130	302	943	789	306	523	1278	1822	2211	1006	709

ANALYSIS OF REFUSE COLLECTED IN THE BOROUGH
OF HALIFAX FOR THE YEAR 1895.

	Number of Loads.
From Wet and Dry Ashpits	4063
From Ashes Tubs	16239
From Goux Closet Tubs	22761
Sweepings gathered from the Streets and Refuse from Gullies	4926
Garbage Removed from Market Hall	1046
Horse Droppings from Streets	250
Garbage from Fried Fish Shops	320
Total Number of Loads	49605

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 ...	821	
Number showing moderate Smoke or <i>nil</i>	} 353	
Number of Observations taken for a period of 60 minutes, each showing Dense Smoke	} 468	
Average number of minutes of Dense Smoke emitted from Chimneys ...	}	2.74

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 Observations taken.	Average number of minutes of Dense Smoke emitted.
Akroyd J. & Son ...	Bowling Dyke ...	3	6	0·8
„	Range Lane ..	5	3	nil
Akroyd W. ...	Lucy Street ...	1	5	nil
Akroyd & Ambler ...	New Brunswick Mill...	1	6	3·0
Baldwin & Walker ...	West Croft Mill ...	2	2	2·0
Baldwin J. & J. ...	Clark Bridge ...	5	10	2·6
Balme & Pritchard ...	Lister Lane stone chimney	2	1	1·0
„	Lister Lane brick chimney	2	3	1·0
Bancroft A. ..	Lister Street ...	1	3	0·3
Bancroft W. ...	Fenton Estate ...	2	2	3·0
Barraclough J. & Sons	Boys' Mill stone chimney	1	8	nil
„	Boys' Mill brick chimney	2	8	2·2
Berry John ...	New bank ...	1	3	nil
Berry Bros. ...	Hebble Lane ...	1	3	nil
Booth J. & Son ...	Lee Bridge ...	6	8	0·3
Bowman Bros. ...	Lee Bank ..	2	8	0·2
Bradford & District Dyeing Co.	1, Lee Bank ...	4	7	0·2
„	2, Lee Bank ...	6	7	0·4
„	1, Old Lane ...	4	7	2·8
Burnley Building Society	Pellon Lane ...	6	9	3·0

SMOKE OBSERVATIONS—*Continued.*

Name of Firm.	Address.	Number of Boilers working.	Number of Observations taken.	Average number of Minutes of Dense Smoke emitted.
Butler James ...	Adelaide Street ...	1	4	2·2
Carter John & Co. ...	Dunkirk Mills ...	1	3	3·0
Calder & Hebble Co. ...	Engine House Lane ...	1	8	2·0
Calvert W. & Son ...	Illingworth Mills ...	2	6	1·3
Charnock G. & Sons ...	Pellon Lane ...	1	3	1·6
„	Charlestown Road ...	1	4	nil
Chambers James ...	Craven Edge Mills ...	1	2	0·5
Charlestown Brick and Tile Co. ...	Charlestown Road ...	1	4	nil
Clayton & Murgatroyd	Lower Wade Street ...	4	9	4·2
Crabtree Joseph ...	Well Lane ...	2	4	nil
Crabtree T. ...	Salterhebble Cotton Mill	2	7	2·7
Crossley J. and Sons ...	Bank Bottom ...	1	3	0·6
Crossley J. & Sons, Ltd.	Dean Clough ..	4	3	1·3
„	Old Lane ...	5	6	nil
„	Office chimney ...	8	6	2·3
„	Lee Bridge stone chimney	6	6	1·3
„	Lee Bridge brick chimney	6	5	nil
„	Range Royd ...	3	5	1·0
„	Dye House chimney ...	2	1	2·0
„	Albion Mills ...	3	8	0·8
„	Hebble Mills ..	2	3	nil
Crossley & Porter Orphanage	Skircoat Moor ...	1	4	nil

SMOKE OBSERVATIONS—*Continued.*

Name of Firm.	Address.	Number of Boilers working.	Number of Observations taken.	Average number of Minutes of Dense Smoke emitted.
Dawson Wm. ...	Gaol Lane ...	1	1	nil
Dyson J. & Sons ...	King Cross ...	1	16	2.0
Drake J. & Co. ...	Foundry Street ...	1	4	0.2
Earnshaw A. & Sons ...	Grantham Road ...	1	6	0.1
Farrar Jabez B. ...	Lower Wade Street	2	6	2.6
„ ...	Well Lane ..	1	9	2.2
Fleming Andrew ...	Grantham Road ..	1	6	nil
Fleming, Birkby, Goodall & Co.	Hopwood Lane ...	1	1	2.0
Fletcher Bros. ...	Raglan Street	4	10	3.6
Foster W. H. ...	Woolshops ...	1	5	0.8
Goodall E. ...	Farrar Mill Lane ..	1	2	1.0
Green Joseph ...	Corporation Street ..	1	5	nil
Greenwood James ...	West End Works ...	1	4	1.7
Greenwood J. ...	Cross Hills ...	1	5	2.0
Hanson — ...	Hope Works	1	1	1.0
Harrison & Singleton	Horton Street ...	1	5	0.2
Hartley & Sugden ...	Gibbet Street ..	1	4	3.0
Hanson Samuel ...	Adelaide Street ...	1	2	2.5
Hanson W. ...	Jumples Mill ...	2	4	nil
Halifax Industrial Society	Northgate ..	1	4	nil
Halifax Workhouse ...	Gibbet Street ...	1	2	0.5
Halifax Corporation ...	Gasworks ...	4	1	nil

SMOKE OBSERVATIONS—*Continued.*

Name of Firm.	Address.	Number of Boilers working.	Number of Observations taken.	Average number of Minutes of Dense Smoke emitted.
Halifax Corporation ..	Electric Light Works	3	6	nil
Halifax Flour Society	Bailey Hall ..	4	12	4.1
Haigh Allan ...	Winding Road ...	1	3	1.3
„ ..	„ Foundry	1	2	2.5
Haxby & Sewell ...	Well Lane ...	1	2	2.5
Heggingbottom ...	Hay's Mill ...	2	4	2.0
Hebden W. C. ...	Winding Road ..	1	7	nil
Helliwell & Sons ..	Ingram Street ...	1	6	nil
Hirst & Sons ...	Weymouth Street .	1	5	nil
Hitchen H. ..	Forest Mill ...	1	4	0.2
Hitchen John ...	Hall Street ...	1	1	nil
Highley N. ..	Croft Mills ...	2	5	0.8
Howson J. M. ...	Albert Street Mills ...	2	7	2.7
Horsfall Eli ..	Commercial Road ...	1	6	nil
Horsfall & Co. ...	Pellon Lane ..	1	11	2.0
Holdsworth J. & Sons	Shaw Lodge Mills ..	10	11	7.0
Hollingrake & Clegg...	Miall Street old chimney	3	11	1.6
„ ...	„ new „	3	9	1.4
Hoyle J. & T. ...	Range Bank ...	4	6	nil
Hoyle Richard ...	Queen's Road ...	2	2	2.0
Hoyle Elkanah ..	Waterside No 1 chimney	1	6	0.6
„ ...	„ „ 2 „	1	4	1.0

SMOKE OBSERVATIONS—*Continued.*

Name of Firm.	Address.	Number of Boilers working.	Number of Observations taken.	Average number of Minutes of Dense Smoke emitted.
Howarth Greenwood ...	Pellon Lane ...	1	1	1·0
Huntriss Exors. ...	Well Lane ...	2	9	6·2
Inman Bros. ...	Hope Hall ...	1	5	0·4
Jagger Emma Sophia...	West Parade ...	2	4	2·7
Knight J. ...	Raglan Street ...	1	2	0·5
Law & Son ...	Square Road ...	1	4	1·2
Lees Thomas & Co. ...	Spring Edge Works ...	1	7	0·1
Lumby, Son & Wood	New Bond Street ...	1	5	1·2
Mackrell J. E. ...	Lower Wade Street ...	1	3	1·3
Martin & Sons ...	Pellon Lane ..	3	4	0·2
Martin ...	Falcon Laundry ...	1	5	nil
Maude & Turner ...	Gibbet Street ...	1	5	2·0
McCrea H. C. & Co....	Eastfield Works ...	1	4	0·5
McNaught & Co. ...	Hare Street ...	1	3	2·3
Milner & Co. ...	Raglan Street ...	1	3	0·6
Morton J. ...	Clipster Hall ...	1	7	3·0
Morton J. ..	Siddal Lane ..	1	4	2·0
Moore Z. ...	Shaw Mill, Mixenden	1	4	2·5
Murgatroyd ...	Bottoms Mill ...	1	1	1·0
Mellor S. ..	Corporation Street ...	1	2	nil
Northern Engineering Co. ...	High Level Works ...	1	3	0·6
North Allen ...	Old Lane Dyeworks ...	1	1	nil

SMOKE OBSERVATIONS—*Continued.*

Name of Firm.	Address.	Number of Boilers working.	Number of Observations taken.	Average number of Minutes of Dense Smoke emitted.
Oakes John	Regent Works	1	8	0·3
Oates James	Ryburne Mill, stone chimney	1	2	2·0
„	Ryburne Mill, brick chimney	1	5	7·8
Oates & Green	Horley Green Road	1	4	1·7
„	Ellen Royd	1	5	0·8
„	Beacon Road	1	6	6·5
Ordish John	Waterside	2	7	0·2
Parker & Co.	Chapeltown	1	3	1·0
Parker J. & Sons	Horley Green Road	1	5	0·6
Pickles W.	Steam Laundry	1	1	2·0
Priestley James	Ovenden	1	2	0·5
Pohlmann & Sons	Hall Street	1	2	1·5
Patchett Bros.	Sedburgh Road, No. 1 chimney	1	9	2·0
„	Sedburgh Road, No. 2 chimney	1	9	2·6
Pulman A. & Sons	Mount Street	1	2	2·5
Rawson W. H.	Old Lane	2	1	nil
Ramsden T. & Sons	Trinity Road	1	5	3·0
Robinson J. & Sons	Lower Wade Street	1	2	nil
Robinson Enoch	Battinson Road	3	1	9·0
Robinson J.	Prospect Mill	1	4	nil
Robinson Jesse & Sons	Royal Mills	2	4	2·2
Redman Cornelius	Pioneer Works	1	3	0·3

SMOKE OBSERVATIONS—*Continued.*

Name of Firm.	Address.	Number of Boilers working.	Number of Observations taken.	Average number of Minutes of Dense Smoke emitted.
Sagar J. & Co. ...	Water Lane ...	1	6	2·0
Scott Bros. ...	Johnson Street ...	1	4	nil
Sheard Jonathan ..	Brackenbed Lane ...	1	3	nil
Smeeton G. F. ...	Stoney Royd ...	3	8	2·5
Smith David ...	Woollen Mill, Siddal...	1	8	1·3
Smith Thomas ...	Siddal Lane ...	1	7	0·4
Smith & Wilshaw ...	Kingston ..	1	1	nil
Smith G. F. ...	Paragon Works ...	1	5	1·0
Smith B. G. ...	Stannary Street ...	1	1	2·0
Soothill & Simpson ...	North Castle Street ...	1	2	0·5
Smithson Joseph ...	Park Print Works ...	2	8	4·8
„ ...	India Buildings ...	1	1	nil
Standeven & Eardshaw	Ladyship ...	3	4	2·2
Standard Screw Co. ..	Dispensary Walk ...	1	4	1·5
Stead Bros. ...	Hare Street ...	1	1	1·0
Stirk & Co. ..	Turney Street ...	1	2	nil
Stott Bros. ...	Mount Street ...	1	1	nil
Sutcliffe J. & Sons ...	Range Bank ..	1	5	nil
Swan Bank Brick and Tile Co.	Swan Bank ..	1	7	0·5
Sykes Miles & Son ..	King Cross ...	1	15	0·6
Speak Paul ...	Mixenden Shed ...	1	4	nil
Taylor Josoph ...	Archer Street ...	1	3	0·3

SMOKE OBSERVATIONS—*Continued.*

Name of Firm.	Address.	Number of Boilers working.	Number of Observations taken.	Average number of Minutes of Dense Smoke emitted.
Taylor & Hanson ...	North Bridge ...	1	7	nil
Tetley & Co. ...	Bradshaw Mill .	2	5	1·0
Thompson Joseph ...	Adelaide Street ...	1	4	3·2
Tillotson J. W. ..	Atlas Carpet Works ...	2	11	7·3
Todd J. & Sons ...	Shay Lane Mills ...	1	2	1·0
Turner Edwin ...	Dapper Mills ...	3	3	1·6
Turner John ...	Bedford Street ...	1	2	1·5
Ward J. W. & Son ...	Walnut Street ..	5	5	2·2
Ward R. D. ...	Hanson Lane, brick chimney	6	11	6·2
„ ...	Hanson Lane, stone chimney	1	1	2·0
Wade Josiah ...	Hopwood Lane ...	1	3	0·3
Walsh, Brearley and Eastburn	Beech Hill ...	1	5	0·8
Wainwright E. M. ...	Sun Works ...	1	8	5·7
Whiteley J. ...	Jubilee Works ...	1	3	nil
Whitley S. & Co. ...	Hanson Lane ...	5	3	2·6
Whiteley J. & Sons ...	Brunswick Mills ...	2	3	nil
Whitaker R. & Co. Ltd.	Corporation Street ...	1	5	nil
Wiley R. C. ...	Trafalgar Works ...	6	16	2·9
Wood George ...	Pellon Lane ...	1	2	1·0

TABLE SHOWING NUMBER OF PREMISES REQUIRING
INSPECTION BY THE MEAT INSPECTOR,
MR. JOHN HUTCHINSON.

Description of Premises.	Number.
Public Slaughterhouses	1
Private Slaughterhouses	4
Fish Curing Houses	5
Bakehouses and Confectioners	97
Cow Sheds	86
Cattle Lairs	5
Potted Meat and Tripe Boiling Houses	50
Fried Fish Shops	65
Milk Shops	86
Knackeries	1
Fat and Bone Boilers	3
Total	403

In addition to the above there are 142 persons registered for selling milk within the Borough but residing in the country.

TABLE SHOWING NUMBER OF VISITS MADE BY THE
MEAT INSPECTOR.

Description of Premises.	Number of Visits.
Public Slaughterhouses	1365
Private Slaughterhouses	85
Fish Curing Houses	240
Cow Sheds	388
Cattle Lairs	27
Fasting Sheds	1365
Knackeries	20
Potted Meat and Tripe Boiling Houses	1272
Bakehouses and Confectioners	2137
Milkshops and Dairies	2183
Fried Fish Shops	921
Others	63
Total	10066

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

Kind of Food Destroyed.	Quantity in lbs.
Ten Carcases of Beef	4254
Eleven Carcases of Pigs	3230
Mutton	398
Veal	304
Fish	11014
Shell Fish	7395
Shrimps	252
Fruit	180
Rabbits	108
Nettles	350
Offal	280
Total	27765

Three carcasses of beef and one pig were suffering from tuberculosis, 4 pigs from jaundice, and two from pleuro-pneumonia.

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	23379	1481	J. Archbell, The Square.
2	27402	620	J. Thompson, 11, Melville Place.
3	23272	832	J. E. Firth, 7, Randolph Street.
4	19760	5276	A. E. Bottomley, Branch Office, Illingworth.
	93813	8209	

District No. 1.

INSPECTOR JAMES ARCHBELL.

Nature of Defects.	Number of Defects.
Defective Sink Drains	135
,, Cellar Drains	52
Made-up Cellar and Walled Drains	5
Defective Yard and Private Street Drains	95
,, Area Drains	41
Untrapped Sink Drains	23
Drains to Disconnect	34
Defective Water Closet Soil Pipes	25
Made-up Water Closets	14
Defective Water Closets	44
Untrapped Bath and Lavatory Waste Pipes	11
Bath and Lavatory Waste Pipes Connected to Soil Pipes	13
Defective Roofing	20
,, Fall Pipes	11
,, Troughing	26
,, Urinals	10
Water in Cellars	43
Offensive Poultry	2
,, Pigeons	3
,, Swine	4
,, Swill Tubs	2

DISTRICT No. 1—*Continued.*

Nature of Defects.	Number of Defects.
Houses Overcrowded	26
Furnished Rooms Overcrowded	4
Offensive Accumulations	114
Ashpits requiring Re-construction	13
Disused Closets	10
Closets and Ash Tub Places requiring proper Doors...	23
Insufficient Privy Accommodation	10
Bad Smells	27
Nuisances from Workshop Chimneys	16
Drains Tested	49
Smoke Observations taken	350
Houses requiring Limewashing	73
Furnished Rooms requiring Limewashing	21
Closets requiring Limewashing	22
Visits to Lodging Houses	23
,, Houses where Fever Cases existed	80
Rooms Disinfected	47
Fever Cases removed to the Borough Fever Hospital	18
Visits to Workshops	950
,, Factories	34
Visits under the Shop Hours' Act	300
Samples purchased for Analysis	46

District No. 2.

INSPECTOR JOSEPH THOMPSON.

Nature of Defects.	Number of Defects.
Defective Sink Drains	36
" " Pipes	52
" Syphon Traps	51
Made-up Sink, Bath and Lavatory Pipes ...	73
" Cellar Drains	32
" Area Drains	12
Defective and Made-up Basement and Walled Drains	86
Made-up Sink Drains	67
Defective Pan and other Closets	33
Made-up Water Closets	35
" " Closet Drains	17
Defective Water Closet Soil Pipes	7
" " " Cisterns	11
Untrapped Bath, Lavatory and Sink Waste Pipes ...	9
" Yard and Sumpstone Drains	6
" Cellar Drains	4
Defective and Broken Fall Pipes	36
Made-up Fall Pipes and Drains	63
Defective Bell Traps in Cellars and Wash Houses ..	11
Made-up Yard and Private Street Drains ..	34
Defective Yard Drains	14
Broken Pot and Iron Traps	9
Made-up Disconnecting Traps	35
Defective Urinal Drains	7
Bath Pipes to Disconnect	9
Defective Connections to Traps	20

DISTRICT No. 2—*Continued.*

Nature of Defects.	Number of Defects.
Offensive Middensteads and Accumulations ...	20
,, Ashpits and Privies	11
Defective Roofs	32
,, and Made-up Troughing	71
Water in Cellars from Burst Water Pipes and Defec- tive Flagging	20
Offensive Swine, Poultry and Rabbits	8
,, Swill Tubs	2
Dilapidated Closets	11
Insufficient Water Supply to Closets	6
Offensive Smells from Gas Mains	3
Houses Overcrowded	3
Dirty Houses	6
Door off Closets	9
Dirty Closets	6
Drains Disconnected	38
Visits to Workshops	578
,, Factories	16
,, Under the Shop Hours Act	355
Rooms Disinfected	68
Fever Cases Removed to the Borough Fever Hospital	15
Smoke Observations taken	210
Visits to Vans occupied as Dwellings	52
Drains Tested	60
Samples Purchased for Analysis	46

District No. 3.

INSPECTOR JAMES EDWARD FIRTH.

Nature of Defects.	Number of Defects.
Made-up and Leaky Sink Pipes	79
Defective Syphon Traps	38
,, Basement Drains	74
Made-up Cellar Drains	27
Defective and Made-up Water Closets	34
Untrapped Bath, Lavatory and Sink Waste Pipes ..	9
,, Urinal Waste Pipes	5
,, Sink Drains	15
,, and Stone-walled Cellar Drains	16
,, Drains in Wash Kitchens	4
Defective Connections to Drain Pipes	21
Broken Fall Pipes	28
Made-up Fall Pipe Drains	50
,, Troughing	45
Defective Bell Traps in Cellars	7
Made-up Yard and Area Drains... ..	71
Broken Pot and Iron Traps	9
Disconnecting Traps without Grates	16
Drains disconnected	31
Offensive Urinals	11
Insufficient Water Supply to Closets	13

DISTRICT No. 3—*Continued.*

Nature of Defects.	Number of Defects.
Damp Houses from Defective Roofs and Soil against Walls of Houses	7
Offensive Swine, Poultry, Pigeons and Rabbits ...	11
„ Swill Tubs	4
Water in Cellars from Defective Drainage and Burst Water Pipes	38
Houses insufficiently Drained	4
Houses Overcrowded	11
Dirty Houses	41
„ Closets	85
Doors off Closets	42
Dilapidated Closets and Ashpits	16
Offensive Accumulations and Middensteads ...	32
Nuisances from Smoke	6
Defective and Made-up Street Gullies	45
Insufficient Privy Accommodation	6
Rooms Disinfected	83
Drains Tested	63
Visits to Workshops	333
„ Factories	108
„ Shops under the Shop Hours Act ...	570
„ Furnished Rooms	76
Fever Cases Removed to the Borough Fever Hospital	17
Smoke Observations taken	200
Samples purchased for Analysis	35

OVENDEN AND ILLINGWORTH.

District No. 4.

INSPECTOR ALBERT EDWARD BOTTOMLEY.

Nature of Defects.	Number of Defects.
Defective and drawn out Lead Syphon Traps ...	31
Made-up Drains	50
Defective Drains	24
Defective connections of Drain Pipes	30
,, Bell Traps	9
,, Fall Pipes	16
,, Troughing	36
Want of Drains	23
Drains Disconnected	48
Untrapped Drains	65
Made-up Gullies	22
Water in Cellars	10
Dirty Closets	18
,, Houses	1
Damp Walls of Houses	3
Offensive Middensteads and Accumulations	28
,, Swill Tubs	7
Defective Water Closets and Soil Pipes	5

DISTRICT No. 4--*Continued.*

Nature of Defect.	Number of Defects.
Untrapped Sumpstones	18
Dilapidated Closets	22
Privies to convert	46
Defective Cellar Floor	1
Offensive Swine	6
,, Ashpits	25
Doors off Closets	23
Insufficient Privy Accommodation	15
Defective Pot Traps	5
,, Roofs	2
Rooms Disinfected	69
Visits to Workshops	38
,, Factories	37
Smoke Observations taken	61
Drains Tested	35
Samples Purchased for Analysis... ..	41
Cases Removed to the Fever Hospital	10
Notices Served	126

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 ..	5	198
Bakehouses and Confectioners ...	2	23
Oat Bread Bakers	2	13
Fried Fish Shops	3	19
Cowsheds	200	751
Total	212	1004

Dairies and Cowsheds.

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

Nature of Defects.	Number of Defects.
Dilapidated Cowsheds	17
Cesspools to provide	10
Drains to provide	8
Cowsheds to Reconstruct	10
Want of Air-space and Ventilation	22
Middensteads to provide	4
Polluted Water	5
Cowsheds requiring Linewashing	157
Want of Light	20
	253

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	137	76	180	256
February	56	42	127	169
March	218	105	158	263
April	218	100	158	258
May	79	29	155	184
June	64	25	92	117
July	244	90	121	211
August	133	48	119	167
September	120	57	135	192
October	62	15	133	148
November	104	56	179	235
December	213	97	131	228
Total	1648	740	1688	2428

Streets Scavenging.

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

OVENDEN AND ILLINGWORTH DISTRICTS.

Number of Miles of Setting	...	...	5½
Number of Miles of Macadamised Roads		...	16½
Number of Streets Swept	...	...	1199
Number of Loads of Sweepings gathered		...	889
Number of Gullies emptied	...	...	3510



FACTORIES AND WORKSHOPS.

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	34	950	300
2	16	578	355
3	108	333	570
4	...	38	37
	158	1899	1262

FACTORIES AND WORKSHOPS.

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	2
Defective Water Closets	6
„ Drains	2
Want of Ventilation	1
IN WORKSHOPS.	
Insufficient Privy Accommodation	1
Defective Water Closets	12
Want of Ventilation	10
Workrooms Overcrowded	5
„ requiring Limewashing	64
Total	103

FACTORIES AND WORKSHOPS.

The following Table shows the nature of Nuisances registered :—

District No. 2.

INSPECTOR JOSEPH THOMPSON.

Nature of Nuisances.	Number Registered.
IN FACTORIES.	
Rooms requiring Limewashing	3
IN WORKSHOPS.	
Rooms requiring Limewashing	34
Insufficient Privy Accommodation	6
Defective Water Closets	4
Made-up Water Closets	2
Defective Drains	5
Bad Ventilation	5
Defective Roofs	4
Untrapped Drain	1
Broken Fall Pipes and Troughing	5
Closets in a dilapidated condition	2
Total	71

FACTORIES AND WORKSHOPS.

The following Table shows the nature of Nuisances registered :—

District No. 3.

INSPECTOR JAMES EDWARD FIRTH.

Nature of Nuisances.	Number Registered.
IN FACTORIES.	
Insufficient Privy Accommodation	1
Untrapped Water Closets	6
Made-up Water Closet Drains	4
Insufficient Water Supply to Closets	4
Dangerous Roof	1
IN WORKSHOPS.	
Defective, Broken and Made-up Water Closets ...	11
Insufficient Privy Accommodation	1
„ Ventilation	1
Defective Roofs	2
Workrooms requiring Limewashing	30
„ „ Ventilation	1
„ Overcrowded	2
Total ...	64

FACTORIES AND WORKSHOPS.

The following Table shows the nature of Nuisances registered :—

District No. 4.

INSPECTOR ALBERT EDWARD BOTTOMLEY.

Nature of Nuisances.	Number Registered.
IN FACTORIES.	
Offensive Closets 	10
IN WORKSHOPS.	
Workrooms requiring Limewashing 	4
Total	14

Disinfection.

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

Description of Articles.	Number of Articles.
Beds	120
Mattresses	167
Pillows	230
Sheets	68
Bolsters	132
Blankets	237
Counterpanes	135
Bed Furniture	2
Curtains	1
Trousers	5
Coats and Vests	24
Drawers	4
Flannel Vests, Dresses and Petticoats	33
Hose	2
Dressing Gowns and Shawls	18
Shirts	8
Towels and Stockings	30
Jerseys	2
Sundries	12
Total	1230

TABLE SHOWING THE NUMBER OF CASES OF INFECTIOUS
DISEASES REMOVED TO THE BOROUGH FEVER
HOSPITAL BY THE DISTRICT INSPECTORS,
FOR THE YEAR 1895.

Wards.	Typhoid Fever.	Scarlet Fever.	Diph- theria.	Continued.	Measles.
Ovenden...	3	...	.	...	...
Northowram	2	1	..	...	...
North ...	4	...	...	...	...
Central ..	4	6	...	1	...
West ..	3	3	2	...	2
South ...	1	...	3	...	...
East ...	1	1	...	...	...
Southowram	8	...	...	...	...
Skircoat ...	4	3	...	..	.
Pellon ...	2	1	...	1	...
Kingston	...	...	...	...	...
Illingworth ...	3	4	...	...	...
Outside the Borough	3	5	...	...	...
Total ..	38	24	5	2	2

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

Wards.			Enteric Fever.	Scarlet Fever.	Continued Fever.	Puerperal Fever.	Diphtheria	Total.
Ovenden	...	...	5	1	...	1	7	14
Northowram	...	..	3	4	...	..	3	10
North	..	...	6	..	1	...	2	9
Central	...	...	3	10	1	1	1	16
West	...	...	5	4	..	...	4	13
South	...	...	5	7	...	...	2	14
East	...	...	3	2	...	1	...	6
Southowram	..	...	13	...	...	...	...	13
Skircoat	...	...	6	4	...	...	3	13
Pellon	...	...	2	3	1	...	2	8
Kingston	...	...	2	5	...	1	1	9
Illingworth	...	...	5	12	...	...	4	21
Total ...			58	52	3	4	29	146

Rooms Disinfected.

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

Wards.					Number of Rooms Fumigated.
Illingworth	...	...	...	...	32
Ovenden	...	...	...	..	29
Northowram	...	...	...	..	23
North	...	...	...	..	17
Central	...	...	...	...	23
West	...	...	...	...	24
South	..	..	...	...	32
Kingston	...	...	...	...	17
Pellon	..	..	...	...	18
East	...	...	..	...	13
Southowram	...	...	..	...	17
Skircoat	...	...	...	...	22
Total					267

Canal Boats.

During the year 59 Inspections have been made, and the Boats were found clean and in fair condition.

It has only been necessary in two cases to call the attention of the Owners and Captain to some contravention of the Act.

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

Of the 59 Boats inspected there were 10 with women and children on board and 7 with women.

All Boats inspected were free from bilge water, and ventilation very good. Proper provision had been made for the storage of water for domestic use.

No objection has been made at any time to my inspections.

Canal Boats, 1895.

Number of Boats Inspected.	Number Registered to carry.	Number of Males on Board.	Number of Females on Board.	Total.
59	268	93	19	112

Ages of Children found on Canal Boats.

Ages.	Months.	YEARS.								Total.	
	4	2	3	4	5	7	8	11	12		
Number	...	1	3	2	5	3	1	4	3	1	23

Legal Proceedings.

It is satisfactory to find that it has only been necessary to institute legal proceedings in one case for selling milk contrary to the provisions of the Food and Drugs Act. This case was ultimately withdrawn it having been found that a quantity of defendant's milk had been stolen and that quantity replaced with water to the extent of 12 per cent.

I am, Gentlemen,

Your obedient Servant,

DAVID TRAVIS,

Chief Sanitary Inspector.

County Borough of Halifax.

Report of the Public Analyst

FOR THE YEAR ENDED DECEMBER 31st, 1895.

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

GENTLEMEN,

During the year 1895 I have analysed for your Committee 15 samples of water, and 190 samples of foods and drugs, the latter in compliance with the "Sale of Food and Drugs Acts, 1875 and 1879."

Of the waters examined, 9 samples were condemned and 6 were passed. One of the waters contained one-tenth of a grain of lead per gallon, and the others the usual polluting matters.

The following Table shows the nature and number of the foods and drugs analysed :—

1895. Quarter ending	Milk.	Butter.	Cheese.	Cream.	Margarine.	Pickles.	Ketchup.	Teas.	Coffees.	Mustard.	Ginger.	Soda Water.	Sweet Nitre.	Total.
Mar. 31st...	41	4	...	...	...	4	..	...	...	...	...	...	...	49
June 30th...	11	9	1	2	...	...	...	...	...	...	...	...	...	23
Sep. 30th...	34	...	...	..	...	...	...	4	3	3	..	...	4	48
Dec. 31st ...	50	9	...	...	1	..	1	...	3	...	5	1	...	70
	136	22	1	2	1	4	1	4	6	3	5	1	4	190

Only 3 of the samples were adulterated, 13 were of doubtful genuineness, and the remaining 174 were genuine articles.

Milk.—The milks analysed formed about 71 % of the whole lot of articles examined. One contained 12 % of added water, and 10 were of doubtful genuineness, which may mean that either the milk was very poor in quality, or that an article good to begin with had been impoverished by the judicious addition of a small amount of water, or the abstraction of part of the cream. The first view was preferred, and where necessary was confirmed by having samples taken at the source for comparison. Upon the whole the quality of the milk for the past year has been decidedly good, both as regards quantity of fat and the amount of solids—phosphates, &c.—in solution. I have in former years referred to the monetary importance of the subject, pointing out that the lowering in quality of the article so little as 5 % means a loss of thousands of pounds a year to Halifax consumers, but the hygienic importance of a pure milk supply cannot be estimated, and I am glad to find an enlightened public opinion recognising the fact in the observations occasionally made from the Bench when we have had unfortunately to prosecute for adulteration of this article.

Soda Water.—Only one sample was examined—a syphon bottle—and it contained $2\frac{1}{2}$ grains of bicarbonate of soda per pint instead of 30 grains, the amount required by the British Pharmacopœia. This is adulteration within the meaning of the Act, and it may prove inconvenient, and may moreover be injurious if such an article is prescribed by a medical man with the idea that it is of genuine quality. The manufacturer's plea is that the drink

is unpalatable with the full quantity of bicarbonate in. With this of course a Sanitary Authority has nothing to do, and either the full quantity ought to be present, or bottles ought to be labelled so as to show what quantity has been put in.

Other Articles.—A coffee contained 5 % of added chicory. Two butters and one coffee gave analytical results which placed them in the doubtful class, but the rest of the foods and drugs examined were of genuine quality, and it is a matter of great satisfaction to find that the figure for adulteration in this year is only 1·5 %, a figure which is unprecedentedly low as will be seen in the following comparison :—

	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895
Percentage of Adulterated Samples ...	5	9·3	15	1·8	2·9	11·4	6	3	5·4	6·7	1·5

I have the honour to be,

Gentlemen,

Your obedient Servant,

WILLIAM ACKROYD,

PUBLIC ANALYST.

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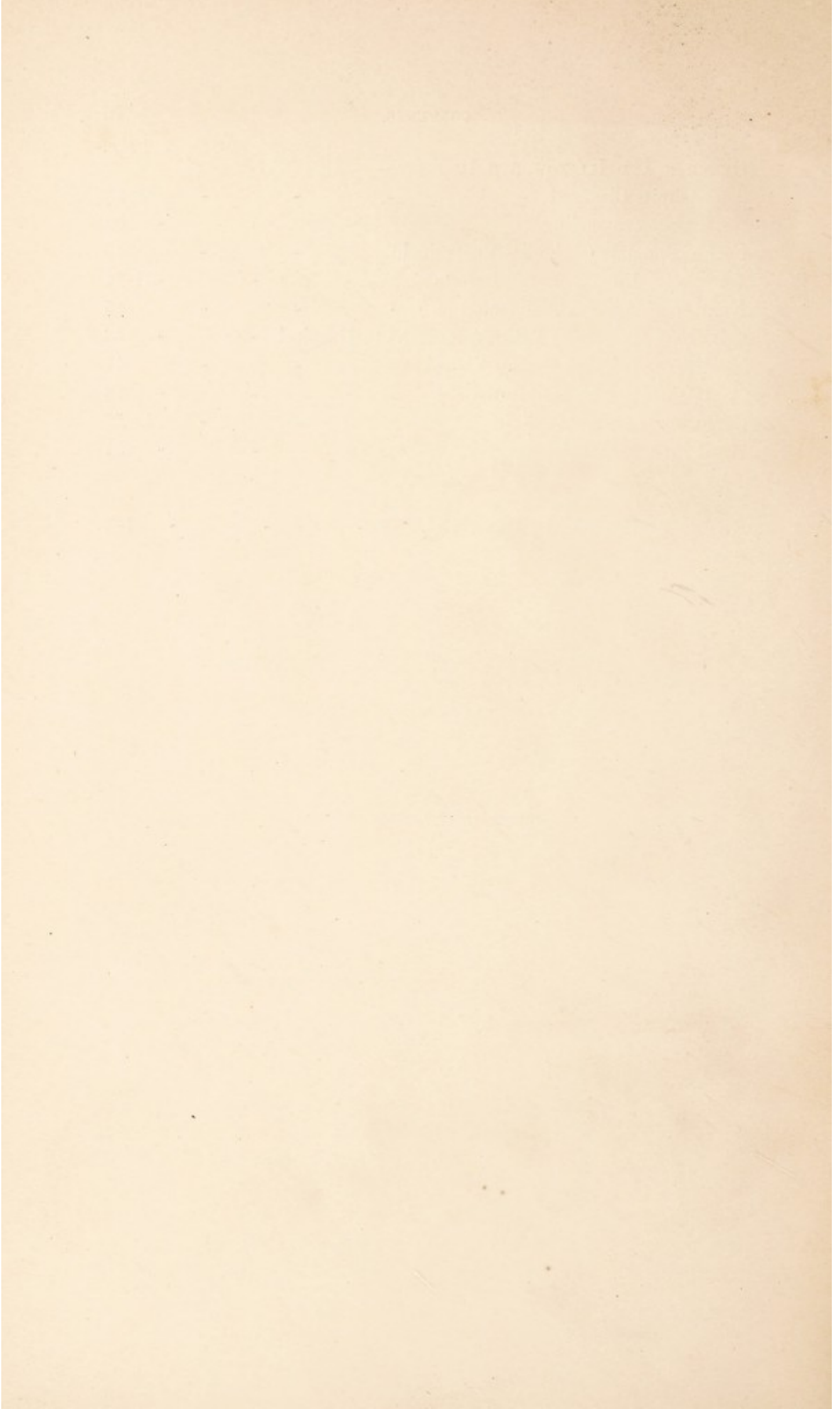
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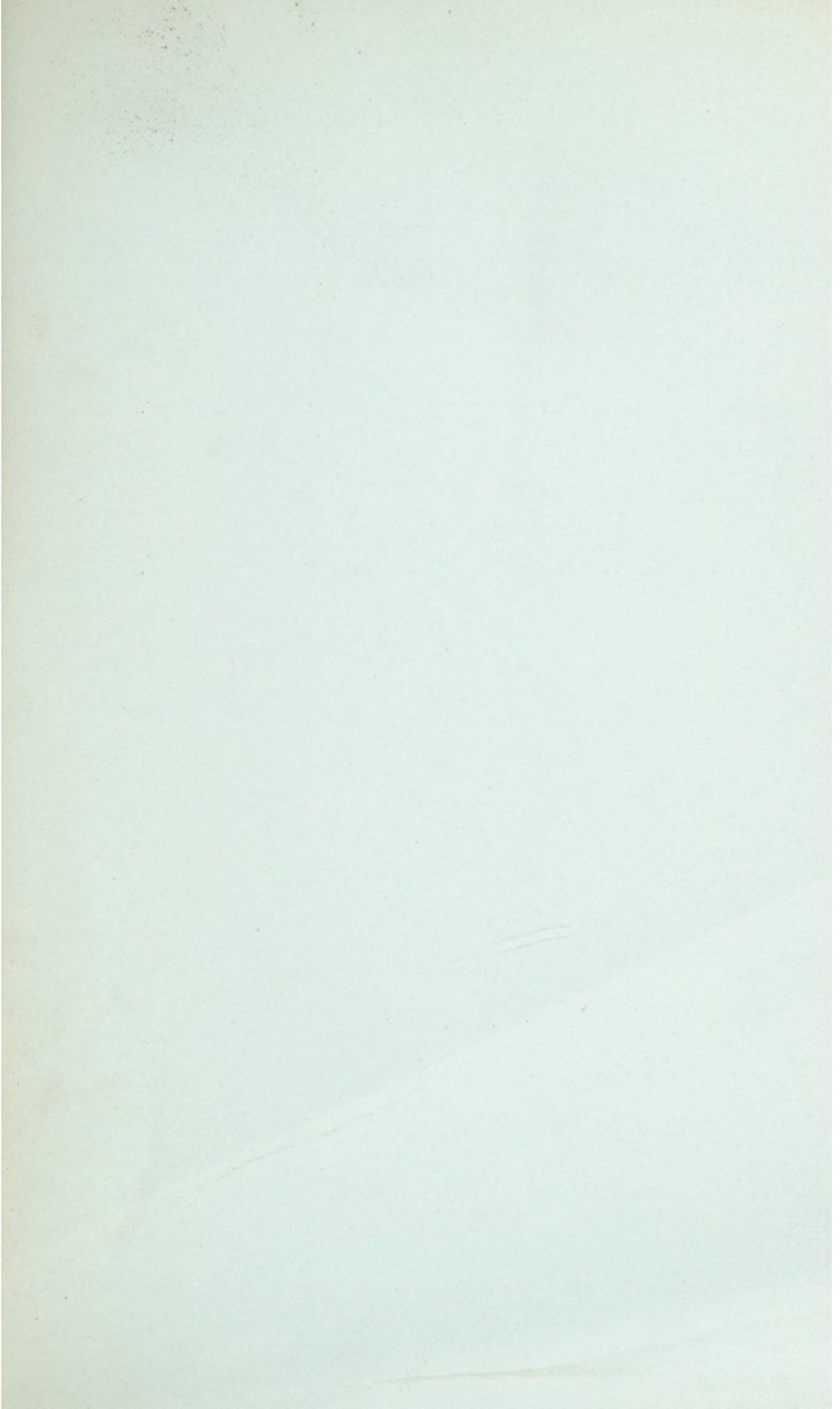
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STATISTICAL SOCIETY