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THE
ANNUAL REPORT

ON THE
HEALTH OF THE COUNTY BOROUGH
AND PORT OF GRIMSBY,

For the Year ending 31st December, 1897,

BY
THOMAS NEWBY, M.D.,

MEDICAL OFFICER OF HEALTH FOR THE BOROUGH AND
PORT OF GRIMSBY.

GRIMSBY :

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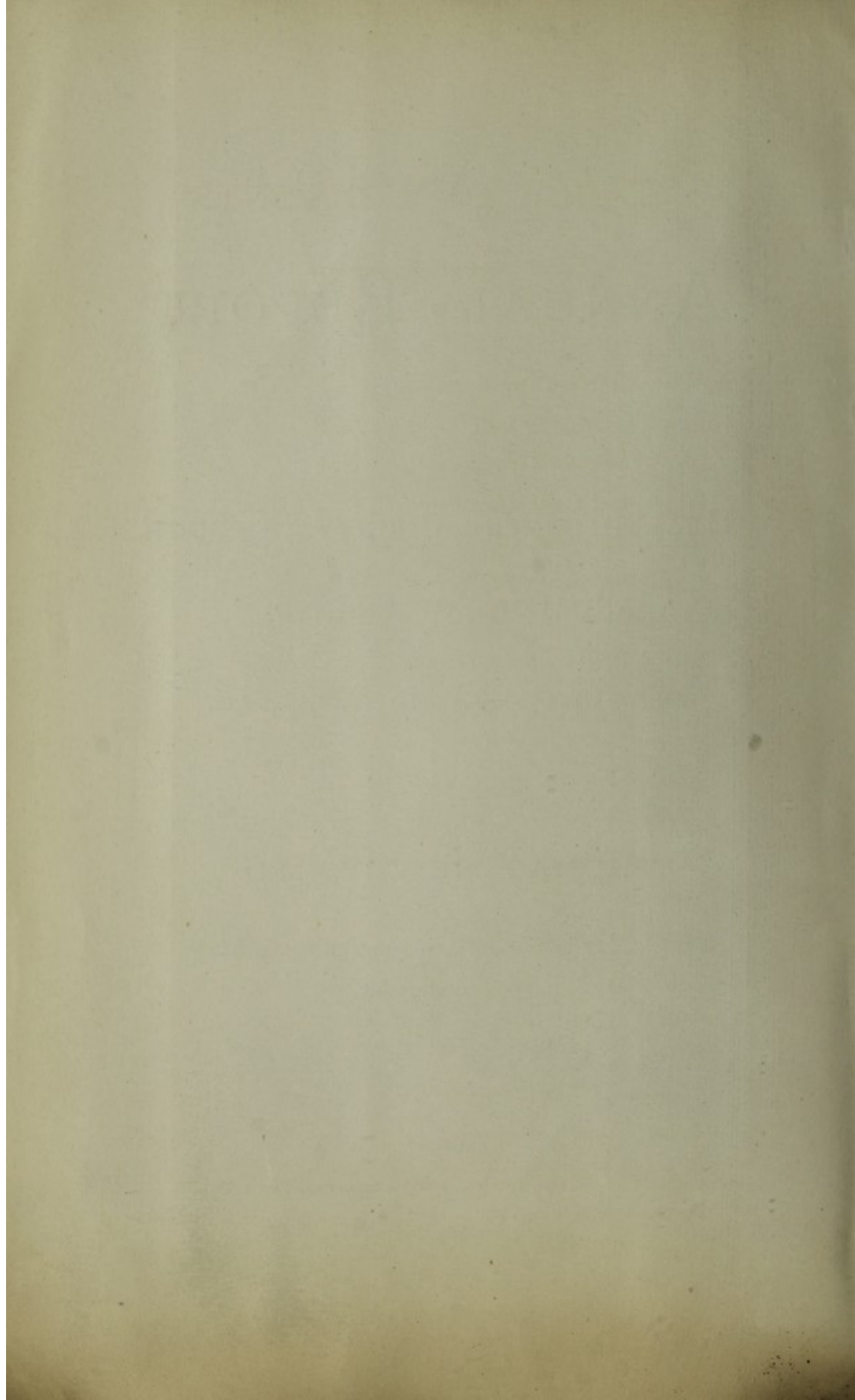


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Sanitary and Building Plans Committee,

From November 9th, 1897, to November 1st, 1898.

Chairman.

COUNCILLOR J. CHATBURN.

Vice-Chairman.

COUNCILLOR J. SPRING.

Aldermen.

BROCKLESBY.	EVISON.	MORTON.
DOBSON.	JACKSON.	MUDD.
DOUGHTY.	MARSHALL.	PALMER.

Councillors.

ABRAHAMS.	GRAINGER.	PICKWELL.
ALWARD.	HEWSON.	POPPLE.
BAIRSTOW.	HILL.	SHEPHARD.
BANNISTER.	HOLMES.	SOUTHWORTH.
BARRETT.	LETTEN.	TICKLER.*
BEELS.	MADDOCK.	TYSON.
BENTON.	MARSHALL.	WATKINSON.
CHRISHOP.	MELHUISE.	WINTRINGHAM.
CROSBY.	MOSS.	WRIGHT.
EXTON.	MUDD.	

AND THE MAYOR, COUNCILLOR JACK SUTCLIFFE, *ex-officio*.

Town Clerk.

W. GRANGE, Esq.

Deputy Town Clerk.

ERNEST LEIGH GRANGE, LL.D.

Borough Engineer.

MARSHALL PETREE, A.M.I.C.E.

Assistant Surveyor.

H. HEAP, A.M.I.C.E.

HEALTH DEPARTMENT.

Medical Officer of Health.

THOMAS NEWBY, M.D.

Chief Sanitary Inspector.

HENRY FRED MOODY, Assoc. San. Inst.

Sanitary Inspector, Eastern District.

JOHN W. SHAW, Assoc. San. Inst.

Port Sanitary Inspector.

CHAS. DOBSON.

Shop Hours Inspector.

JOHN SHEPHERD.

Clerk.

JNO. H. SMITH.

FEVER HOSPITAL.

Medical Superintendent.

W. B. SIMPSON, M.B.D.P.H.

Matron.

Mrs. COLLINS.

Porter.

W. COLLINS.

→ ANNUAL REPORT, 1897. ←

DURING the year ended 31st December, 1897, there were 1,043 deaths; 554 Males, and 489 Females; and 1895 births, 995 Males, and 900 Females, registered in the County Borough. 21 deaths occurred within, but not belonging to the District.

The general death and birth rates estimated on a population of 58,450 (up to the middle of the year), were 17·844 and 32·42 per thousand per annum respectively.

These are as compared with 16·0 and 33·0 in the preceding year, 18·2 and 33·5 in 1895, and 16·7 and 33·9 in 1894.

The average death rate for the last 8 years, (*i.e.*) since the amalgamation of the Borough, was 17·953 per thousand, and for the last 10 years (in the old District prior to amalgamation), 17·6.

The births and deaths registered in each quarter, with their respective rates, are as shown in the following table:—

	BIRTHS.	RATES.	DEATHS.	RATES.
Spring Quarter	463	32·49	259	17·684
Summer Quarter	466	32·7	215	14·877
Autumn Quarter.....	484	33·1	325	22·4
Winter Quarter	482	32·985	244	16·698

CAUSES OF DEATH.

I. ZYMOTIC DISEASES.

220 deaths were registered from these causes, and comprised 3 of Scarletina, 25 Diphtheria, 9 Membranous Croup, 11 Enteric or Typhoid Fever, 1 Puerperal Fever, 2 Rheumatic Fever, 1 Erysipelas, 18 Measles, 20 Whooping Cough, 127 infantile and 3 adult Diarrhœa.

These give a zymotic rate of 3·763 per thousand per annum as compared with 2·28 last year, and 3·946 in 1895.

The average rate for the last 8 years was 3·75 per 1,000.

There was an *increase* of 2 of Diphtheria, 4 Membranous Croup, 1 Rheumatic Fever, 116 infantile and 3 adult Diarrhœa.

A *decrease* of 3 Scarlatina, 4 Typhoid, 4 Puerperal Fever, 1 Erysipelas, 10 Measles, and 13 Whooping Cough on the previous year.

The death rate from the 7 principal zymotics was ·530 per thousand, as against ·860 the preceding year, and ·696 in 1895.

The average rate for the last 8 years being ·798 per thousand.

420 deaths occurred in children under 1 year, equal to a mortality of 221 per thousand births, as compared with 154·6 the year previous, and 212 in 1895. This excessive infantile mortality was largely due to epidemic Diarrhœa in the months of August and September, 101 deaths having been registered of this cause in these months.

114 deaths were in persons 70 years of age and upwards, viz.:—between 70 and 75, 42 deaths; 75 and 80, 47 deaths; 80 and 85, 14 deaths; 85 and 90, 6 deaths; and 1 each at 92, 93, 95, 97, and 100, giving an old age rate of 109 per thousand deaths registered, and 2·35 per thousand of the population.

		TABLE I.						ZYMOTIC DISEASES.														ALL OTHER DISEASES.																
LOCALITY.	At all Ages.	Under 1 Year.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and upwards.	Small-pox.	Scarlatina.	Diphtheria.	Typhus Fever.	Euteric or Typhoid Fever.	Continued Fever.	Relapsing Fever.	Furuncul Fever.	Cholera.	Membranous Croup.	Erysipelas.	Rheumatic Fever.	Measles.	Whooping Cough.	Diarrrhea.	Heart Disease.	Cerebral Disease.	Diseases of the Abdominal Organs.	Phthisis.	Diseases of the Respiratory Organs.	Atrophy and Premature Birth.	Convulsions.	Oncet.	Senile Decay.	Injuries.	Other Causes.	Total.	All Ages Total.			
Humber Ward	966	136	40				under 5.			2							2				11	9	25	1	7	19	2	24	35	24			2	3	166	966		
				13	19	50	5 up-wards.			4	1						1			1		1	10	13	15	15	20			8	3	2	6	100				
Wellow-Woolaby Ward	154	74	12				under 5.			1							2			1	2	25		2	9	5	6	17	13			2	1	86	154			
				4	10	22	5 up-wards.		1	1	3								1			1	9	7	6	10	10			4	10	2	3	68				
South Ward	98	45	10				under 5.		1								1					17		3	4	1	3	15	7			1	2	55	98			
				5	7	18	5 up-wards.										1						9	2	5	8	6			3	4	3	2	43				
South-West Ward	140	41	19				under 5.			5							1				5	15		2	5	1	6	14	5				1	60	140			
				8	4	42	5 up-wards.			2	3							1				1	12	3	11	8	18			6	7	2	6	80				
North-East Ward	165	78	25				under 5.			2					1					2	3	30		2	6	2	15	20	18				3	103	165			
				2	8	38	5 up-wards.								1			1					6	7	9	12	13			3	2	3	6	62				
North-West Ward	137	63	11				under 5.		1	4							1			3	1	15		1	5		7	18	6			2		64	137			
				4	6	40	5 up-wards.		1	1	1												8	4	13	10	13			2	9	10	2	73				
General District Hospital	41	2	2				under 5.																				1		1			1	1	4	41			
				3	9	23	5 up-wards.			1	2												5	3	6		3			1		13	3	37				
Corporation Isolation Hospital	1		1				under 5.			1																								1	1			
							5 up-wards.																															
Union Work-house	41		1				under 5.																						1						1	41		
				2	1	15	5 up-wards.				1												2	8	3	6	3				1	15		1	40			
Total under 5.....	540	430	130				total under 5.		2	15							7			17	30	137	1	17	48	12	61	130	74			8	11	540	1043			
Total 5 up-wards	503			41	57	248	total 5 up-wards.		2	9	11				1		2	1	2	1		3	61	47	68	69	84			28	60	35	29	503				
Total at all ages	1043						at all ages.		4	34	11				1		9	1	2	18	20	130	63	64	116	81	145	130	74	28	50	43	40	1043				
The subjoined numbers have also to be taken into account in judging of the records of mortality.																																						
Deaths occurring within but not belonging to the District	19			1	5	10	under 5. 5 up-wards.					1											2	3	3						1	8	1	19	19			

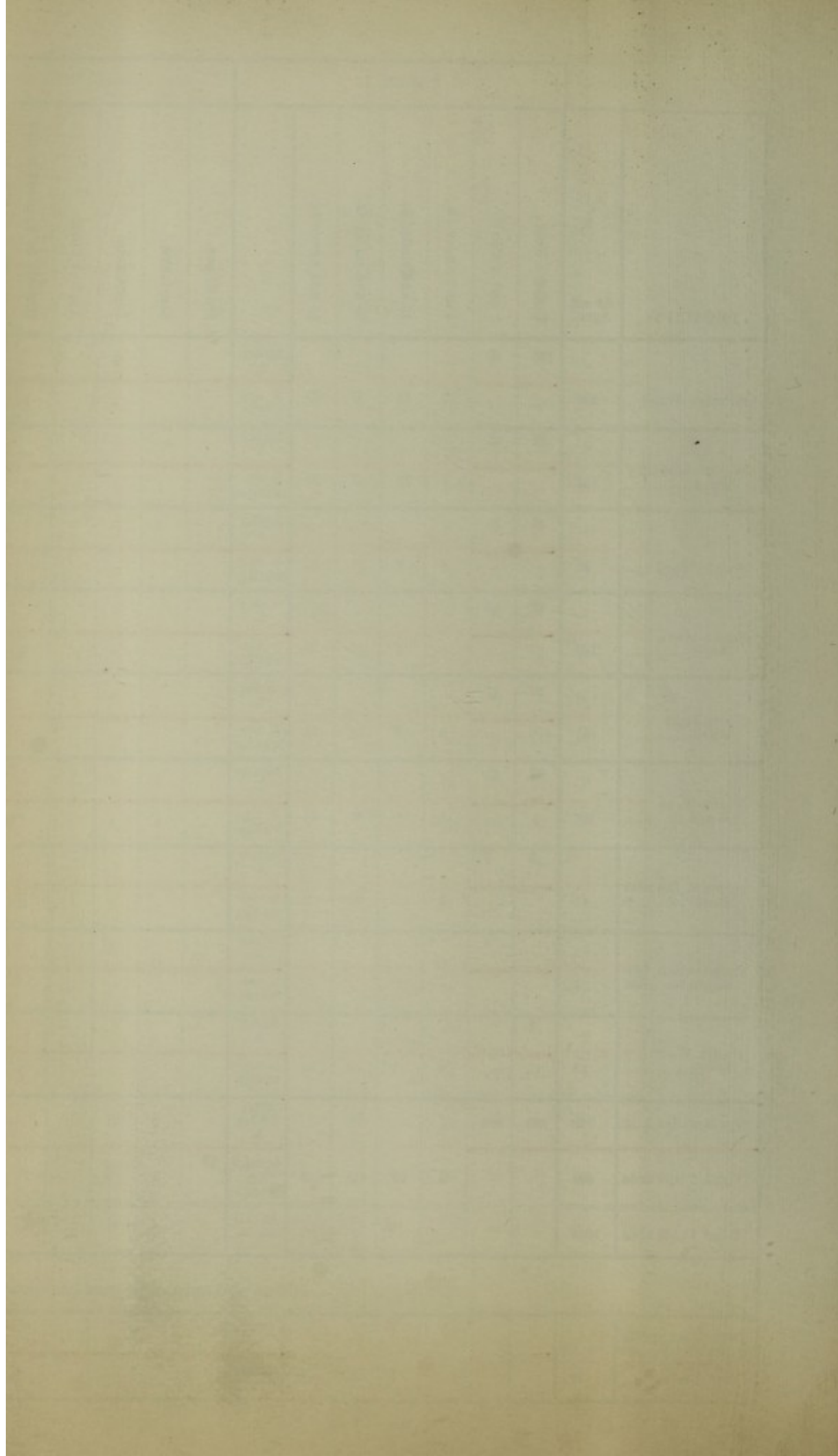
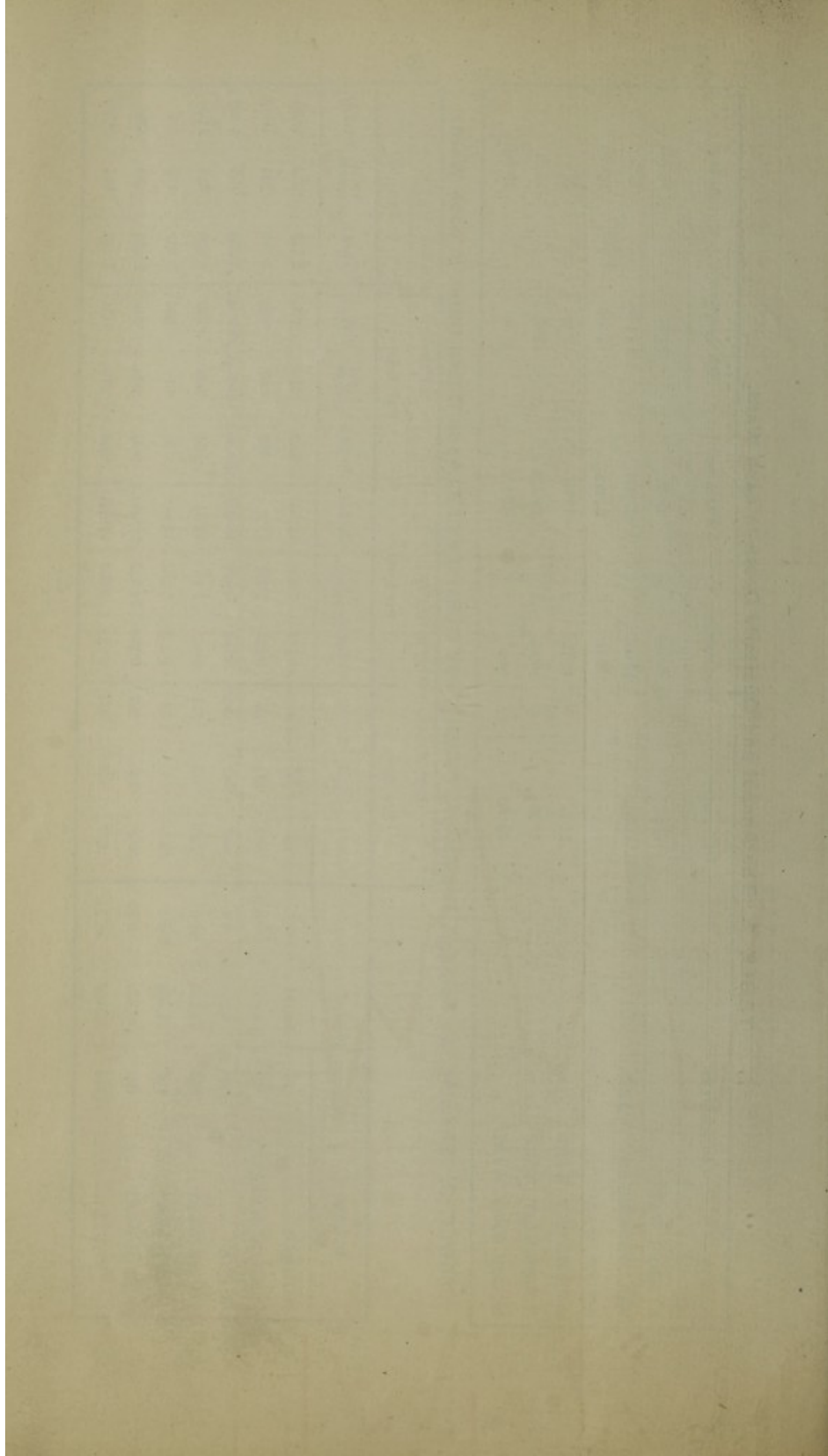


TABLE 2.—The Annual and Quarterly Death in each Ward.

LOCALITIES.	1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	Annual.
HUMBER WARD.....	17.37	15.532	20.43	22.31	18.766
WELLOW-WEELSBY WARD	15.057	15.96	27.253	14.109	17.5
SOUTH WARD.....	15.7	9.18	24.965	14.508	15.667
SOUTH-WEST WARD	11.44	13.136	17.345	9.181	12.51
NORTH-EAST WARD	17.55	10.86	20.473	11.31	14.81
NORTH-WEST WARD	22.535	16.0	24.313	18.38	19.869

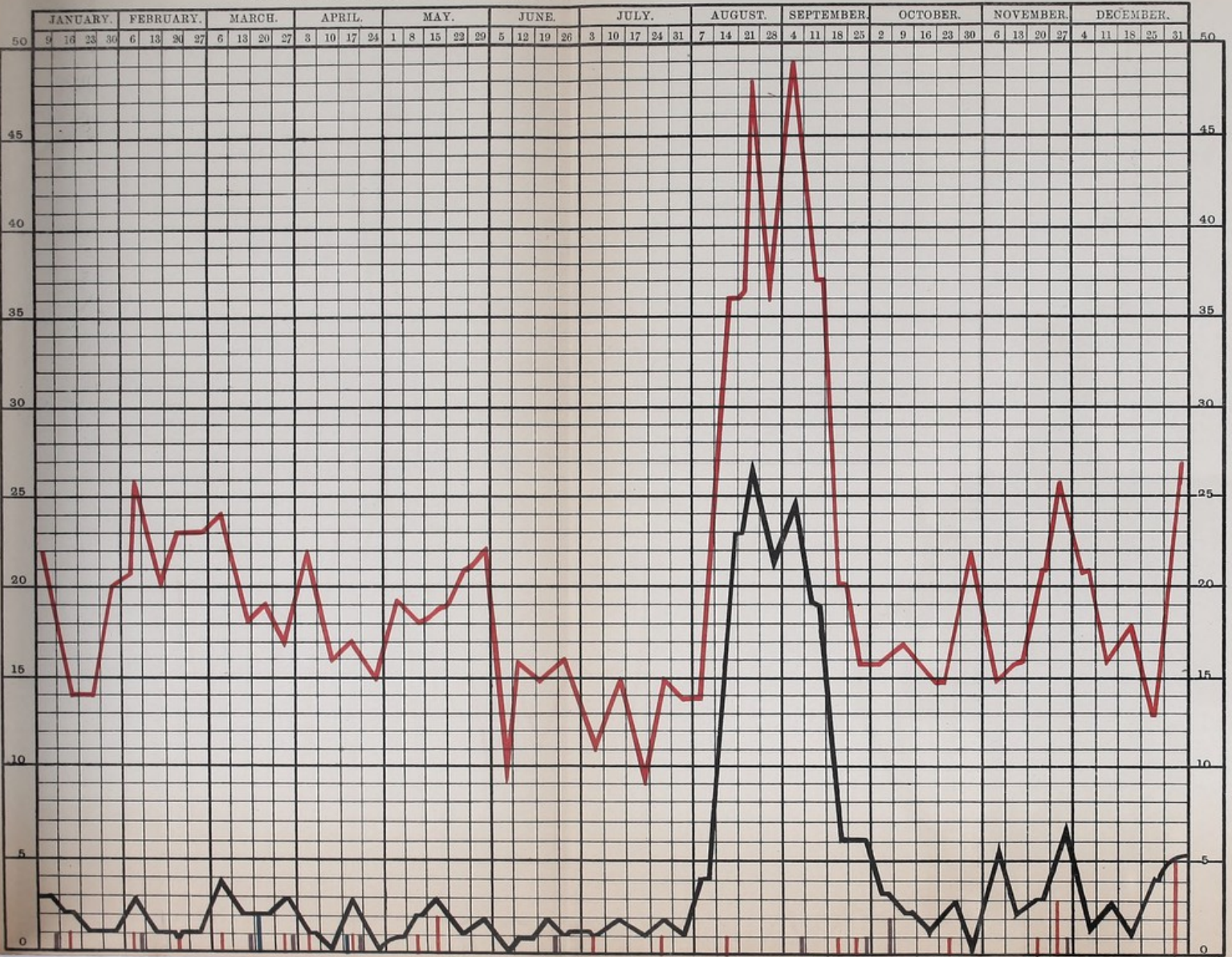
TABLE 3.—Showing the Acreage, Population, Density, and General and Zymotic Death Rates in each Ward.

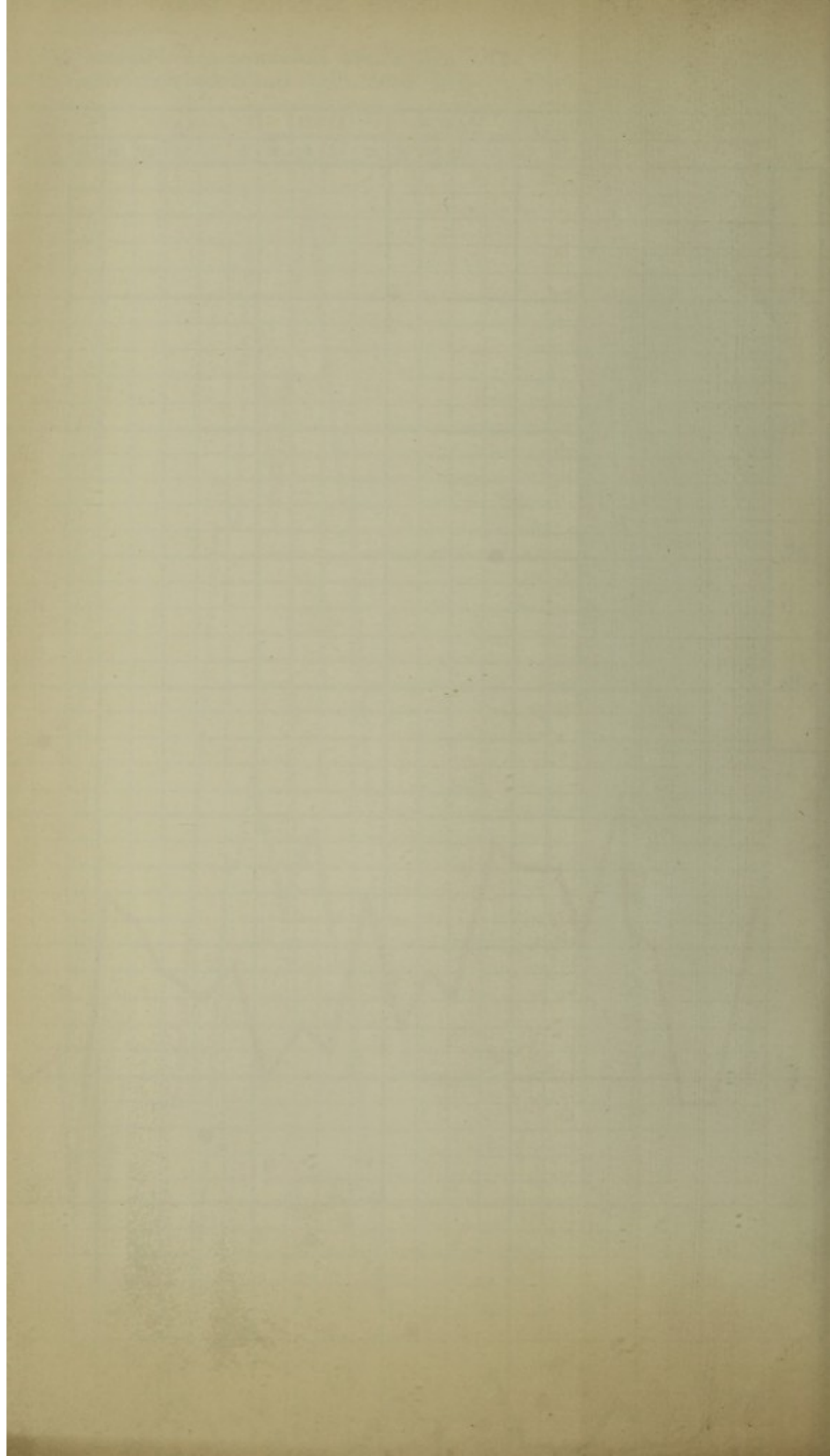
WARDS.	Acreage.	Population.	Density.	GENERAL DEATH RATE.						ZYMOTIC DEATH RATE.					
				Per Acre.			Per 1,000.			Per Acre.			Per 1,000.		
				Under 5.	5 and upwards.	TOTAL.	Under 5.	5 and upwards.	TOTAL.	Under 5.	5 and upwards.	TOTAL.	Under 5.	5 and upwards.	TOTAL.
HUMBER.....	78	14,174	181.7	2.128	1.282	3.41	11.711	7.055	18.766	.630	.100	.730	3.457	.564	4.021
WELLOW-WEELSBY	959	8,800	8.968	.089	.071	.16	9.773	7.727	17.5	.032	.007	.039	3.523	.795	4.318
SOUTH	1,028	6,255	6.0	.053	.042	.095	8.793	6.874	15.667	.018.482	.000.973	.019.455	3.038	.159	3.197
SOUTH-WEST	254	11,186	44.0	.236	.315	.551	5.36	7.15	12.51	.102	.028	.130	2.324	.626	2.95
NORTH-EAST	107	11,140	104.1	.98	.58	1.54	9.245	5.565	14.81	.345	.019	.364	3.321	.179	3.5
NORTH-WEST	692	6,895	9.96	.092	.105	.197	9.282	10.587	19.869	.036	.004	.040	3.625	.435	4.06
TOTAL.....	3,118	58,450	18.74	.173	.161	.334	9.238	8.606	17.844	.060	.010	.070	3.216	.547	3.763



DEATH RETURNS CHART No. 1, JANUARY 1st TO DECEMBER 31st, 1897, INCLUSIVE.

The Red Curve indicates the Number of Deaths per Week from all causes, the Black Curve Zymotics.
The Blue Line indicates Scarlatina, the Red Line Diphtheria, The Violet Line Typhoid Fever.





WEATHER CHART, 1897.

Mean Temperature for Week ended January 9th, 1897, to January 1st, 1898:—**RED CURVE.**

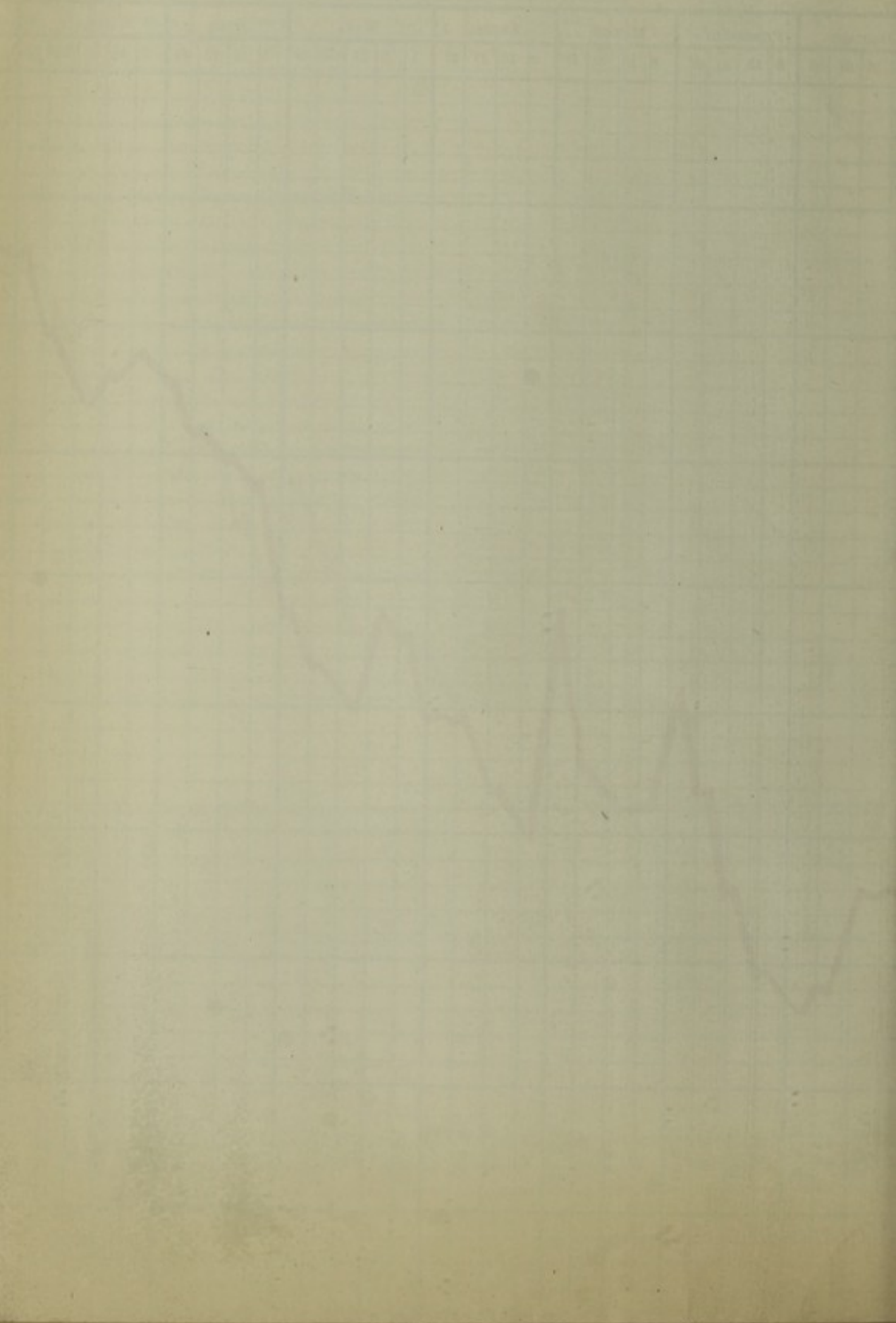
Prevailing Winds " " " " " " " " " " **BLACK LETTERS.**

Rain Fall. Hours (Hrs.) Inches (Ins.) " " " " " " " " **VIOLET FIGURES.**



WEATHER OBSERVATIONS

Station: _____
Date: _____
Time: _____



NOTIFICATION OF INFECTIOUS DISEASES.

355 notifications were received during the year, as compared with 366 in 1896. The average for the last 8 years was 489 (not including Diarrhœa which was notifiable in the Autumn months of 1893, 1894 and 1895 only).

In connection with these cases 314 infected houses were visited. The insanitary conditions observed were as follows, viz.:—45 untrapped cesspools, 13 leaky privy boxes, 7 defective w.c's, 1 pan closet, 1 bath waste connected direct to the sewer, 2 defective soil pipe joints, 1 unventilated (upper) soil pipe, 1 soil pipe ventilated too low, 1 choked fall pipe, 1 case of swine kept too near dwelling-house, 1 gas escape, 3 sink wastes untrapped from sewer, 1 defective paving round gullie, 6 choked drains, 3 accumulations of refuse removed, 1 house with damp basement walls, and 9 premises in dirty condition.

These have all since been remedied.

In 11 instances pump water was used, samples of these waters were taken and submitted for analysis, the result showing them to be pure.

In 7 cases milk was sold on the premises, and 2 were purveyors of bread, the sale of these was stopped until the premises were free from infection.

12 smell tests were applied to w.c's, and 227 houses disinfected.

Sanitary pails were provided in every case of Typhoid. The pails were collected nightly and removed in covered carts to the Hospital destructor. Instructions were given to parents or guardians as to isolation, disinfection, &c., to be observed, and disinfectants supplied free of cost.

SMALL-POX.

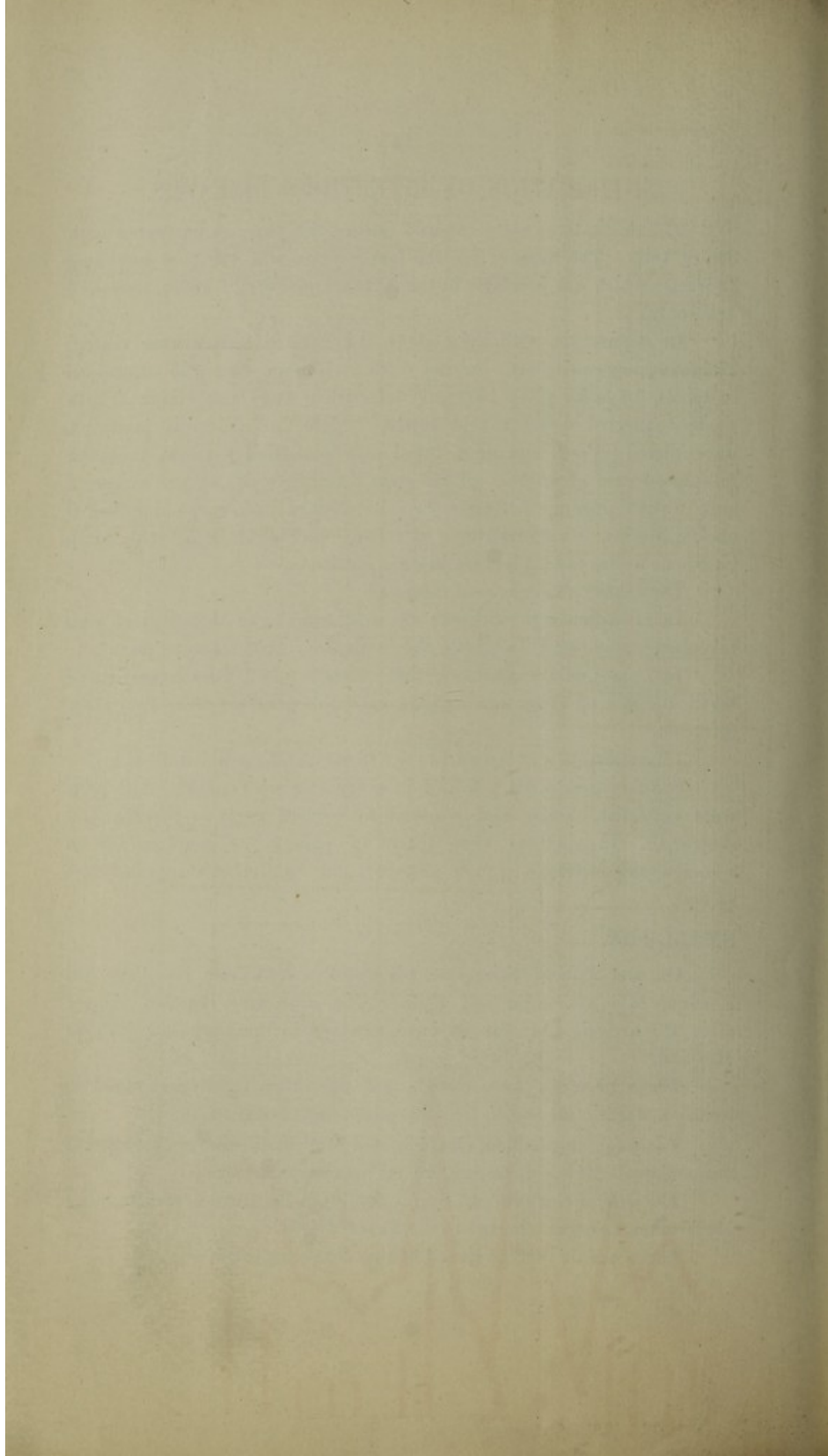
On the 29th of November, a seaman arrived from Hamburg, via London, Middlesbrough, and Hull. The case was reported shortly after his arrival, and was at once removed to the Corporation Fever Hospital.

These premises were closed, and the other inmates removed to isolation wards of Hospital, for observation and revaccination.

Thorough disinfection, cleaning, and fumigation were at once carried out, and such clothes, furniture, &c., as necessary destroyed.

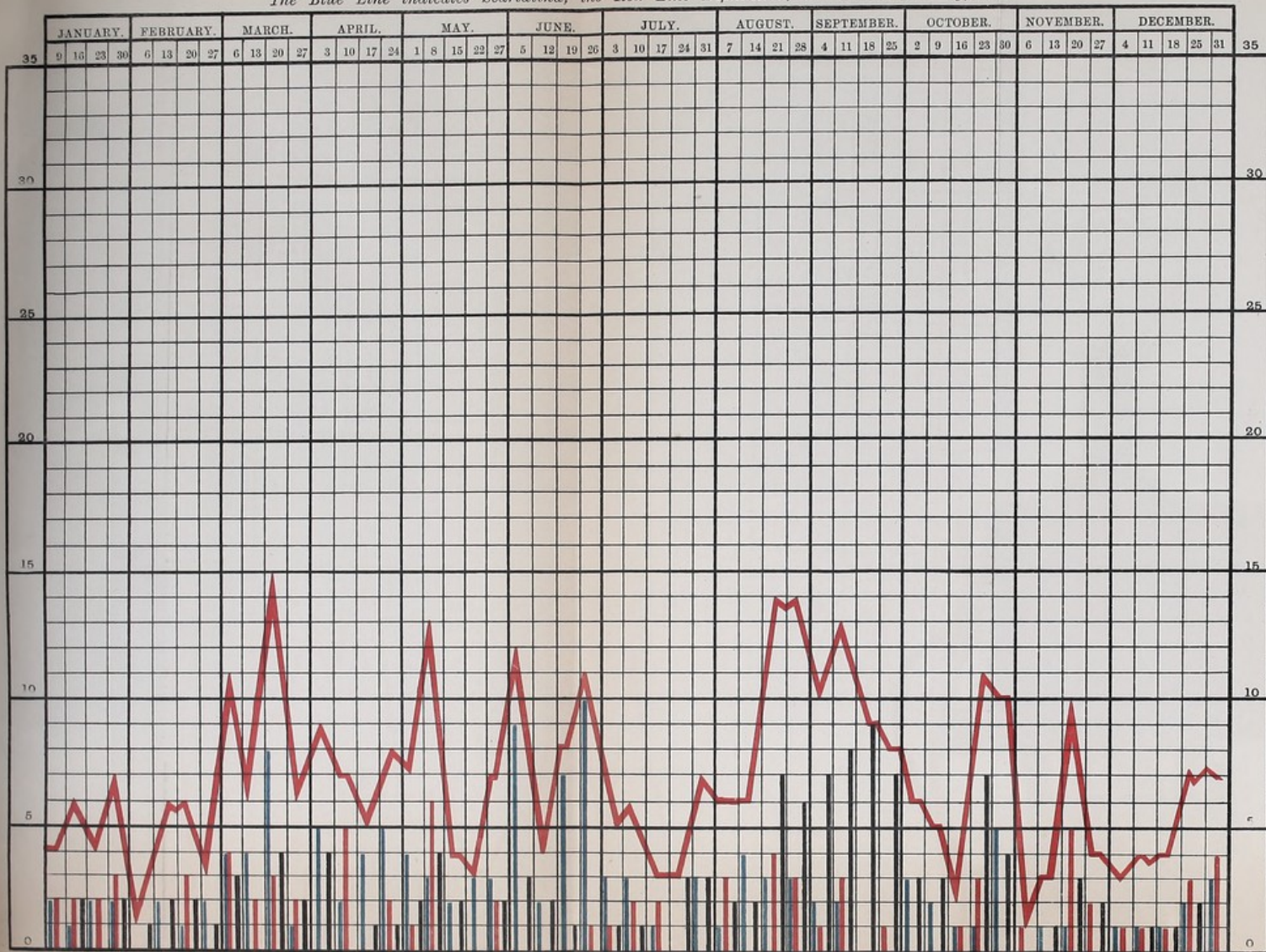
The wife of this man afterwards developed the disease whilst under observation, and was removed to the Fever Wards.

There was no further spread of this disease in the district.



NOTIFICATION OF INFECTIOUS DISEASES CHART.-1897.

The Red Curve indicates the total number of notifications received weekly from January 1st to December 31st, inclusive.
The Blue Line indicates Scarlatina, the Red Line Diphtheria, the Black Line Typhoid.



DATE: 10/10/1911
TO: THE SECRETARY OF THE ARMY
FROM: THE CHIEF OF THE BUREAU OF MILITARY ENGINEERING

No.		Description		Remarks	
1	100	100	100	100	100
2	100	100	100	100	100
3	100	100	100	100	100
4	100	100	100	100	100
5	100	100	100	100	100
6	100	100	100	100	100
7	100	100	100	100	100
8	100	100	100	100	100
9	100	100	100	100	100
10	100	100	100	100	100
11	100	100	100	100	100
12	100	100	100	100	100
13	100	100	100	100	100
14	100	100	100	100	100
15	100	100	100	100	100
16	100	100	100	100	100
17	100	100	100	100	100
18	100	100	100	100	100
19	100	100	100	100	100
20	100	100	100	100	100
21	100	100	100	100	100
22	100	100	100	100	100
23	100	100	100	100	100
24	100	100	100	100	100
25	100	100	100	100	100
26	100	100	100	100	100
27	100	100	100	100	100
28	100	100	100	100	100
29	100	100	100	100	100
30	100	100	100	100	100
31	100	100	100	100	100
32	100	100	100	100	100
33	100	100	100	100	100
34	100	100	100	100	100
35	100	100	100	100	100
36	100	100	100	100	100
37	100	100	100	100	100
38	100	100	100	100	100
39	100	100	100	100	100
40	100	100	100	100	100
41	100	100	100	100	100
42	100	100	100	100	100
43	100	100	100	100	100
44	100	100	100	100	100
45	100	100	100	100	100
46	100	100	100	100	100
47	100	100	100	100	100
48	100	100	100	100	100
49	100	100	100	100	100
50	100	100	100	100	100
51	100	100	100	100	100
52	100	100	100	100	100
53	100	100	100	100	100
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63	100	100	100	100	100
64	100	100	100	100	100
65	100	100	100	100	100
66	100	100	100	100	100
67	100	100	100	100	100
68	100	100	100	100	100
69	100	100	100	100	100
70	100	100	100	100	100
71	100	100	100	100	100
72	100	100	100	100	100
73	100	100	100	100	100
74	100	100	100	100	100
75	100	100	100	100	100
76	100	100	100	100	100
77	100	100	100	100	100
78	100	100	100	100	100
79	100	100	100	100	100
80	100	100	100	100	100
81	100	100	100	100	100
82	100	100	100	100	100
83	100	100	100	100	100
84	100	100	100	100	100
85	100	100	100	100	100
86	100	100	100	100	100
87	100	100	100	100	100
88	100	100	100	100	100
89	100	100	100	100	100
90	100	100	100	100	100
91	100	100	100	100	100
92	100	100	100	100	100
93	100	100	100	100	100
94	100	100	100	100	100
95	100	100	100	100	100
96	100	100	100	100	100
97	100	100	100	100	100
98	100	100	100	100	100
99	100	100	100	100	100
100	100	100	100	100	100

SCARLATINA.

135 notifications were received with 3 deaths, as against 146 and 6 deaths last year, 148 and 3 deaths in 1895, 203 and 8 deaths in 1894, 306 and 4 deaths in 1893, 190 and 2 deaths in 1892, 200 and 5 deaths in 1891, and 430 and 13 deaths in 1890. The average for the last 8 years was 219·705 cases, and 5·5 deaths.

The distribution of these cases and deaths are set forth in the following table:—

WARDS.	SCARLATINA NOTIFICATIONS.							SCARLATINA DEATHS.						
	H.W.	W.W.W.	S.W.	S.W.W.	N.E.W.	N.W.W.	Total.	H.W.	W.W.W.	S.W.	S.W.W.	N.E.W.	N.W.W.	Total.
1st Quarter ...	14	9	...	6	3	2	34	...	1	...	...	...	1	2
2nd Quarter ...	11	27	1	3	13	2	57	...	...	...	...	...	1	1
3rd Quarter ...	6	10	1	3	3	1	24	...	...	...	...	...	...	...
4th Quarter ...	1	1	1	7	7	3	20	...	...	...	...	...	...	...
Annual ...	32	47	3	19	26	8	135	...	1	...	...	...	2	3
Rate per 1,000	2·257	5·340	·479	1·698	2·333	1·160	2·30	...	·113	...	...	...	·270	·05

47 were removed to the Corporation Isolation Hospital.

It will be observed that the Wellow-Weelsby Ward was the most, and the South Ward the least affected. Every house was visited by the Inspectors, and careful watch kept on the various schools. In connection with the high rate in the Wellow-Weelsby Ward, it may be mentioned that there were 6 cases in one house, and 4 in another in Ainslie Street, 5 in one house in Sixhills Street, and 4 in another house in Welholme Road.

DIPHTHERIA.

83 intimations were received during the year, with 25 deaths, as compared with 82 and 23 deaths the preceding year, 69 and 13 deaths in 1895, 112 and 21 deaths in 1894, 121 and 29 deaths in 1893.

The averages for the last 8 years were 60·8 cases and 14·5 deaths.

These were located in the various Wards as follows:—

Localities.	Diphtheria Notifications.							Diphtheria Deaths.								
	H.	W.W.	S.	S.W.	N.E.	N.W.	Total.	H.	W.W.	S.	S.W.	N.E.	N.W.	Isolation Hospital.	District Hospital.	Total.
1st Quarter...	6	5	4	3	...	5	23	3	...	...	1	...	1	...	...	5
2nd Quarter	6	1	4	4	3	...	18	1	...	...	3	...	...	...	1	5
3rd Quarter...	1	1	5	9	1	3	20	1	1	...	1	2	...	...	...	5
4th Quarter	4	2	...	8	2	6	22	2	1	...	2	...	4	1	...	10
Annual	17	9	13	24	6	14	83	7	2	...	7	2	5	1	1	25
Rate per 1,000	1·199	1·0	2·0	2·145	·538	2·0	1·420	·493	·227	...	·625	·179	·725	...	...	·429

12 were removed to the Isolation Hospital.

Of the 83 Intimations received, 40 were attending the various schools, viz.:—10 South Parade School, 4 Chapman Street, 3 each Macaulay Street, Heneage Road, and St. John's, 2 each Silver Street, James Meadows, and Holme Hill, and 1 each in 11 other schools.

ENTERIC OR TYPHOID FEVER.

124 notifications were received during the year, with 11 deaths, as against 124 and 15 deaths last year, 183 and 21 deaths in 1895, 136 and 26 deaths in 1894, 326 and 54 deaths in 1893, 117 and 23 deaths in 1892, 165 and 22 deaths in 1891, and 206 and 31 deaths in 1890.

The average for the last 8 years of new cases and deaths was 172·5 and 25·3.

During the first 4 years after the amalgamation of the Borough the average was 203 cases and 32·2 deaths per annum, the latter 4 years, *i.e.*, up to the present year the average was 14·7 and 18·1 deaths, showing an appreciable decrease fairly and largely attributable to the improved drainage of the District. The locale of the notified cases and deaths is shown in the following table :—

WARDS.	Typhoid Notification.							Typhoid Deaths.								
	H.	W.W.	S.	S.W.	N.E.	N.W.	Total.	H.	W.W.	S.	S.W.	N.E.	N.W.	District Hospital.	Work-house.	Total.
1st Quarter	9	3	1	7	2	...	22	1	...	...	1	...	...	1	1	4
2nd Quarter	6	4	1	6	...	3	20	...	...	...	1	...	1	...	...	2
3rd Quarter	16	17	6	12	5	2	58	...	3	...	1	...	...	...	...	4
4th Quarter	4	5	3	6	...	6	24	...	...	...	...	...	...	1	...	1
Annual	35	29	11	31	7	11	124	1	3	...	3	...	1	2	1	11
Rate per 1,000																

6 were removed to the Isolation, and 7 to the General District Hospital. The insanitary conditions of premises, and remedial measures taken are given on page 14.

PUERPERAL FEVER.

4 notifications were received, with 1 death, as against 7 and 5 deaths the previous year. In these cases notice of suspension was served upon nurses for a period of 6 weeks.

CONTINUED FEVER.

7 intimations were received, with no deaths, as against 5 and no deaths last year, and 14 and no deaths in 1895.

Erysipelas accounted for 1, and Rheumatic Fever 2 deaths during the year.

WHOOPIING COUGH.

20 deaths were registered from this cause, as against 33 the preceding year, equal to a rate of 10·554 per thousand births. These were distributed in the various wards as follows :—Humber Ward 9, Wellow-Weelsby 2, South-West 5, North-East 3, North-West 1.

MEASLES.

18 deaths resulted from this cause, as against 28 the previous year, and 21 in 1894, equal to a rate of 9.948 per thousand births. Their locale in the various wards was as follows:—Humber 12, Wellow-Weelsby 1, North-East 2, North-West 3. It will thus be seen that this disease prevailed chiefly in the Humber Ward, as might be expected from the age groups, and density of the population in this Ward.

DIARRHŒA

Caused 130 deaths. 127 under 5 years of age, and 3 adults, nearly the whole of these were registered in the months of August and September. I visited nearly every house in which a death occurred, and was struck with the almost uniform want of care and knowledge of the feeding of infants, and convinced that a large number of the deaths might be thus accounted for.

GENERAL CAUSES OF DEATH.**I. PHTHISIS.**

Locality ...	H.	W.W.	S.	S.W.	N.E.	N.W.	District Hospital.	Union Workhouse.	TOTAL.
Deaths ...	17	15	9	9	14	10	1	6	81
Rate Per 1,000	1.199	1.70	1.438	.80	1.256	1.450	...	...	1.385

The average rate for the last 8 years was 1.156 per thousand.

II. INFLAMMATORY DISEASES OF THE RESPIRATORY ORGANS.

Locality ...	H.	W.W.	S.	S.W.	N.E.	N.W.	District Hospital.	Union Workhouse.	TOTAL.
Deaths ...	44	16	9	24	27	19	3	3	145
Rate Per 1,000	3.104	1.818	1.438	2.145	2.423	2.754	...	...	2.480

III. HEART DISEASE.

Locality ...	H.	W.W.	S.	S.W.	N.E.	N.W.	District Hospital.	Union Workhouse.	TOTAL.
Deaths ...	11	9	9	12	6	8	5	2	62
Rate Per 1,000	.776	1.0	1.438	1.072	.538	1.160	...	...	1.060

IV. DISEASES OF THE ABDOMINAL ORGANS.

Locality ...	H.	W.W.	S.	S.W.	N.E.	N.W.	District Hospital.	Union Workhouse.	TOTAL.
Deaths ...	34	15	9	16	15	18	6	3	116
Rate Per 1,000	2.398	1.7	1.438	1.430	1.346	2.610	...	...	1.984

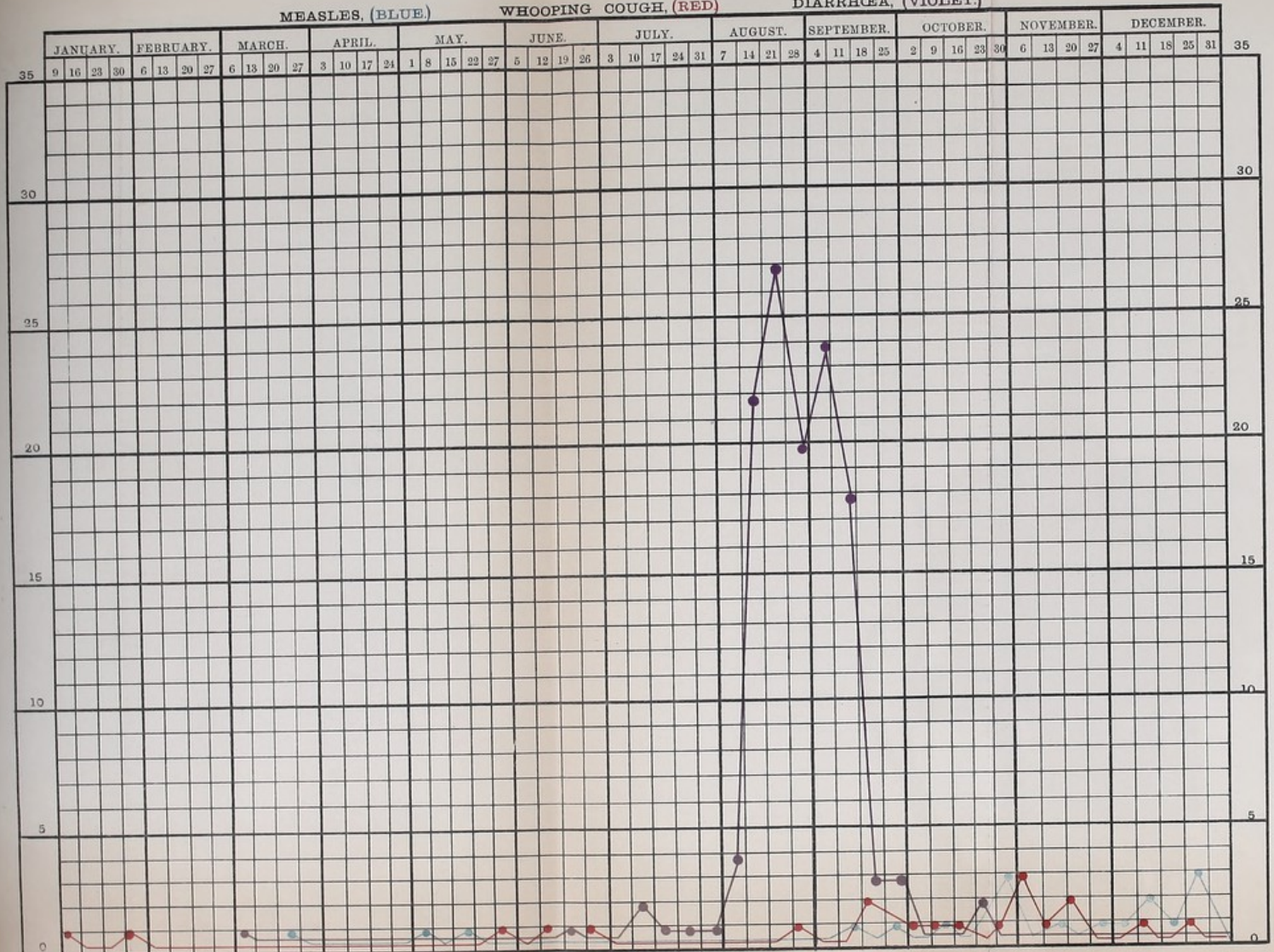
V. CEREBRAL DISEASES.

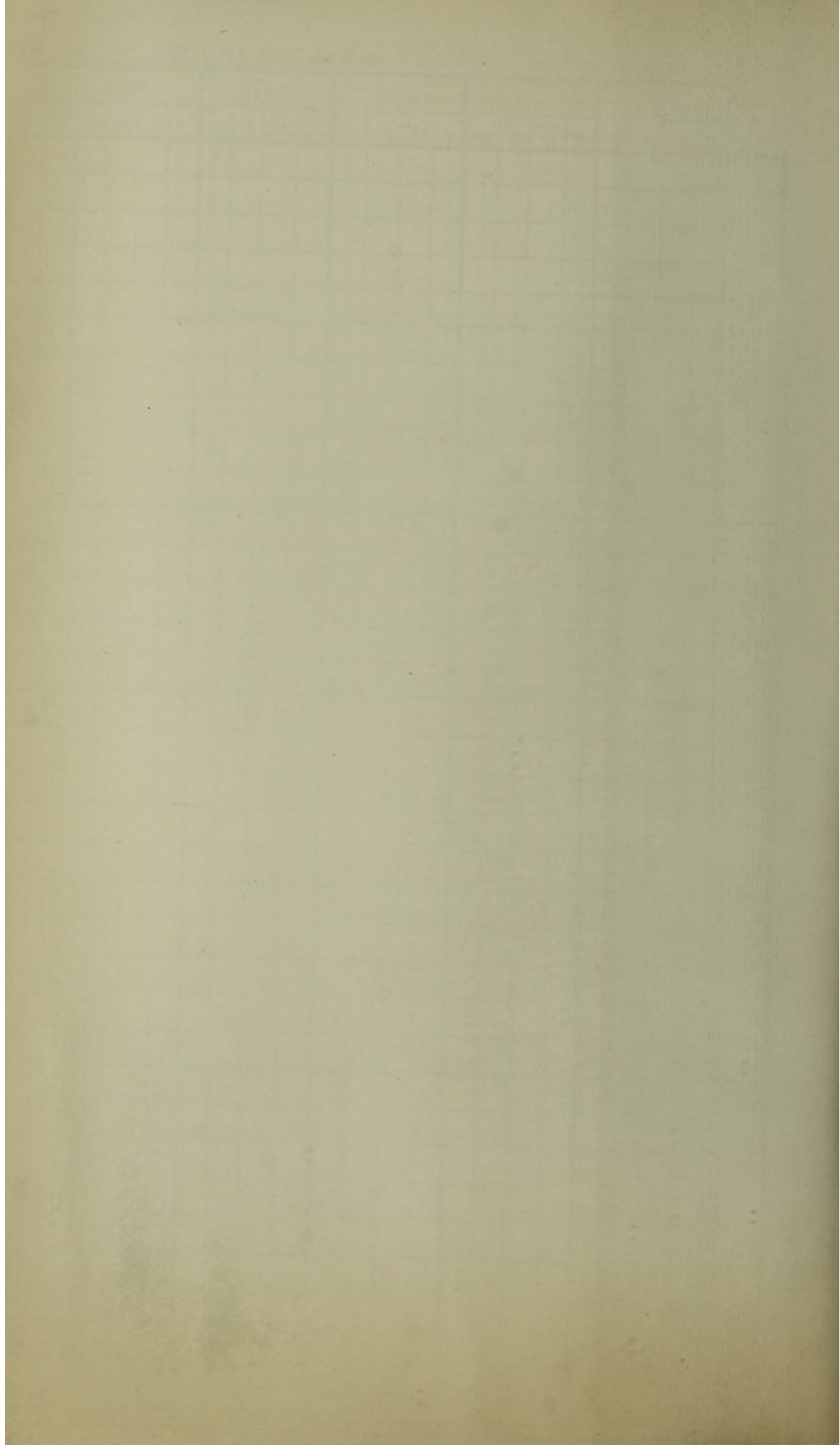
Locality ...	H.	W.W.	S.	S.W.	N.E.	N.W.	District Hospital.	Union Workhouse.	TOTAL.
Deaths ...	20	9	5	5	9	5	3	8	64
Rate Per 1,000	1.411	1.0	.8	.438	.80	.725	...	...	1.034

Atrophy and Premature Birth, 120; Infantile Convulsions, 74; Cancer, 28; Senile Decay, 50; Accidents and Injuries, 43; and Miscellaneous causes (of these 6 were attributable to Chronic Rheumatism) 40.

DEATH RETURNS CHART No. 2.-1897.

MEASLES, (BLUE) WHOOPING COUGH, (RED) DIARRHCEA, (VIOLET)





The Number of Registered, Licensed and other Premises requiring Inspection, are shown in the following Table.

Bakehouses ...	...	...	...	...	...	...	73
Slaughterhouses ...	...	...	...	...	...	...	64
Common Lodging-houses ...	...	...	...	...	...	...	18
Fish Curing-houses ...	...	...	...	...	...	...	25
Milk Shops ...	...	...	...	...	...	...	155
Cowsheds ...	...	...	...	...	...	...	44
Workshops ...	...	...	...	...	...	...	148
Gut Scraping Premises ...	...	...	...	...	...	...	4
Tripe Boiling-houses...	...	...	...	...	...	...	10
Bone Boilers and Fat Melters ...	...	...	...	...	...	...	9
Marine Stores ...	...	...	...	...	...	...	7
Manure Works (2 outside District) ...	...	...	...	...	...	...	3
Total ...	...	...	...	...	...	...	560

Table showing Food Seizures, Sanitary Prosecutions, and Results during the Year 1897.

DATE.	NATURE OF SEIZURE.	OFFENCE.	DECISION OF JUSTICES.
Feby. 25th	Carcase of Beef	Preparing for Sale Diseased Meat	Fined £10 0s. 0d. including costs
March 18th	Part of a Carcase of Beef	Preparing for Sale and Selling Diseased Meat	Fined £6 0s. 0d. including costs
May 6th	Carcase of Beef	Preparing for Sale Diseased Meat	Fined £10 0s. 0d. including costs. In this case an appeal was heard at the Quarter Sessions, resulting in the decision of the Justices being upheld.
June 21st	Beast Head, Tongue & Liver	Selling Diseased Meat	Fined £20 0s. 0d. including costs
June 21st	Carcase of Beef	Preparing for Sale Diseased Meat	Fined £20 0s. 0d. including costs
Sept. 23rd		Establishing Offensive Trade without the consent of the Sanitary Authority	Fined £2 2s. 0d., including costs.

Table showing Quantity of Meat, &c., destroyed as unfit for Human Food.

4 Beast Carcases and 1 Head, Tongue, and Liver ...	...	...	2,121 lbs.
26 Pig Carcases (Swine Fever) ...	...	...	2,912 lbs.
29 Baskets of Cherries ...	...	...	420 lbs.
1 Sheep Carcase ...	...	...	126 lbs.
1 Barrel of Cod ...	...	...	84 lbs.
1 Box of Soles ...	...	...	62 lbs.
Total ...	...	...	5,725 lbs.

Table giving Description and No. of Samples submitted to the Public Analyst. Results of Analysis and No. of Prosecutions.

Description of Sample.	No. of Samples.	Results of Analysis.		Remarks.	No. of Prosecutions.	Offence.	Date.	Decision of Justices.
		Genuine.	Adulterated.					
Pump Waters	21			Results Satisfactory.				
Tap Waters, Town Supply	2							
New Milk ...	32	30	2		2			
Old Milk ...	1		1		1	1. Selling Milk with 6 per cent. of added water.	April 12/97.	Fined £1 1s. including costs.
Whiskey ...	2	2	Nil.					
Gin ...	1	1	"			2. Selling Milk with 17.5 per cent. of fat abstracted.	April 29/97.	Fined £1 1s. including costs.
Rum ...	1	1	"					
Oatmeal ...	1	1	"			3. Selling old Milk with 16.36 per cent. of added water	July 5/97.	Fined £2 2s. including costs.
Pepper	1	1	"					
Butter	3	3	"					Total penalties including costs.
Totals ...	65	41	3					£4 4s. 0d.

Table of Common Lodging Houses in the Borough, their Situation, No. of Rooms, and Registered No. of Lodgers.

Situation.	No. of Houses.	No. of Rooms.	Sleeping.	Day.	Registered No. of Lodgers.
Rear of 19, Pasture Street	4	10	9	1	24
48, Upper Burgess Street	1	3	2	1	6
50, Upper Burgess Street	1	3	2	1	6
Rear of 50, Upper Burgess Street	2	4	4	0	6
6, Whitgift Street	1	7	5	2	16
8, Whitgift Street	1	3	2	1	7
111, King Edward Street	1	3	2	1	14
190, King Edward Street	1	4	3	1	13
130, King Edward Street	1	13	11	2	60
134, King Edward Street	1	8	6	2	28
1, Fotherby Street	1	10	7	3	28
35, Fotherby Street	1	4	3	1	10
Room back of 33, Fotherby Street	1 room used only for married couples.		1	0	4
2, Duncombe Street			3	1	9
23, Railway Street	1	4	3	1	16
37, Railway Street	1	5	3	2	7
69, Nelson Street	1	7	6	1	27
Back of 8, Upper Burgess Street	1	4	2	2	7
Beside 11 rooms used as furnished apartments accommodating 22 persons					22
Totals.....	22	97	74	23	310

With the exception of No. 8, Burgess Street (a licence to which was granted by the Authority in September last), the others remain as during 1896. The out-offices in 8 of the houses are specially constructed latrines, the remainder being provided with boxes, and to each house there is an

efficient supply of water. The inspection of the houses has shown them to be kept with a due observance of the Bye-laws. Necessary repairs have been effected as follows, viz. :—1 yard and kitchen floor repaired, 2 choked drains cleared, 1 notice board affixed outside house, 1 urinal and 2 privy boxes provided, and 1 leaky eave-spout repaired, and 1 transfer allowed.

WORKSHOPS.

In this connection 9 intimations have been received from Her Majesty's Factory Inspector, directing attention to sanitary requirements, which were as follows :—A stable in connection with a bakehouse, insufficient conveniences in a printing establishment, overcrowding in 2 dressmaking and 1 braiding rooms, insufficient ventilation at a dress-making and tailoring establishment, and at a bakehouse (which also required limewashing), and insufficient conveniences at 2 braiding shops. All have received due attention, compliance being made with the Act promptly (save in 1 of the 2 last-named), in which it is intended to effect the required provision in connection with a projected extension of the works.

Situation of the Licensed Slaughter-houses in the Borough.

1	Lower Burgess Street.	23	Back of 6 Wood Street.	43	Grafton Street (near Hilda Street).
2	27, Cleethorpe Road.	24	Back of 26, Oxford Street.	44	Back of 295, Cleethorpe Road.
3	14, Upper Burgess Street.	25	Bradley Street.	45	Hope Street (facing Saw Mills)
4	Fotherby Street.	26	Back of 39, Corporation Road.	46	Do. do. do.
5	Church Street.	27	Back of 51, Corporation Road.	47	Back of 128, Weelsby Street.
6	Church Street 8 foot.	28	Back of 60, Ravenspurn Street.	48	Strand Street.
7	Back 27, Abbey Walk.	29	Back of 77, Garibaldi Street.	49	Back of 167, Kent Street.
8	Back 369, Cleethorpe Road.	30	Back of 56, Crescent Street.	50	Back of 18, Hope Street.
9	Back 67, Holles Street.	31	Albion Street (nr. Bath Street).	51	Back of 126, Freeman Street.
10	44, East Gate.	32	Holme Street, East Marsh Lane.	52	Back of 44, Ravenspurn Street.
11	Catherine Street.	33	End of Cressey Street.	53	Wellowgate.
12	Back 1, Cleethorpe Road.	34	Back of 2, South Parade.	54	Back of 9, Humber Street.
13	Near 122, Garibaldi Street.	35	Thesiger Street (nr. Kent Street).	56	Back of 151, Hope Street.
14	Foundry Inn Yard, Church Street.	36	Back of 84, Cleethorpe Road.	57	Fish Docks (C. S. & T. Co.)
15	Do. do. do.	37	Back of 99, Cleethorpe Road.	58	Back of 92, Garibaldi Street.
16	Back of 78, Victoria Street.	38	Back of 49, Yarborough Street.	59	Back of 65, Bath Street.
17	Back of 41, Duchess Street.	39	Strand Street.	60	King Edward Street (near Havelock Street).
18	Do. do. do.	40	Do. do.	61	Back of 40, Connamore Road.
19	Do. do. do.	41	Hilda Street (near Cleethorpe Road).	62	Back of 259, Heneage Street.
20	Red Hill.	42	Grafton Street (near Hilda Street).	63	Back of Smokers Arms, Albion Street.)
21	Back 79, Lord Street.			64	Back of 129, Macaulay Street.
22	Back 86, Freeman Street.				

A special Inspection of the Fish Houses, with reference to their sanitary condition, was made by the Inspectors, in July last, and a report thereon submitted to a Sub-Committee. A Code of Bye-laws is in course of preparation for the better management of the houses, and the more expeditious removal of offal, &c., from the premises.

Situation of the Bone Boiling, Fat Melting, Gut Scraping, and Tripe Boiling Premises in the Borough.

TRIPLE BOILERS.	BONE BOILERS AND FAT MELTERS.	GUT SCRAPER.
114, King Edward Street. 157, Cleethorpe Road. Back 64, Wellington Street. 79, Victor Street. Back 29, Duke Street. 127, Duncombe Street. 18, Burgess Street. 126, Albert Street. Bath Street. 26, Oxford Street.	29, Havelock Street. 18, Burgess Street. 114, King Edward Street. 157, Cleethorpe Road. Back 64, Wellington Street. Back 29, Duke Street. 127, Duncombe Street. 126, Albert Street. 79, Victor Street.	Back 30, Strand Street. Back 41, Duchess Street. Beside 3, Fotherby Street. 26, Oxford Street.

BAKEHOUSES.

Of the 73 bakehouses in the Borough, 37 are in the Eastern District, of the whole number, 3 are not in use, and 2 are discontinued altogether, the sanitary conditions are in all respects good, they are generally found upon inspection to be kept clean. The floor of one bakehouse has been relaid, and one new bakery erected.

WATER SUPPLY.

In this connection, 4 defective pumps were repaired, 2 pumps abolished, 3 dirty wells opened and cleaned out, and 24 new taps fixed. 21 analyses of pump water were obtained, 1 being certified as suspicious, its use was discontinued. 2 samples of the town's water were taken, one for chemical analysis, the other for Bacteriological Examination, both results being of a satisfactory nature.

DRAINAGE.

9 large cesspits (5 of which were mentioned in my last Annual Report as then existing) have been filled in, piped over, and connected to the town sewers.

236 P traps or gullies have been fixed on private properties, replacing insanitary brick cesspools.

The Inspector for the Eastern District reported the insanitary condition of the East Marsh Drain. The matter was referred to a Sub-Committee, who directed the Surveyor to level up the drain as quickly as possible.

The open drain behind Donington Street has been cleaned out.

2 agricultural tile drains have been replaced, sanitary pipes being substituted.

THE HAYCROFT DRAIN.

I have repeatedly urged upon your Committee the necessity for steps to be taken with reference to putting this drain into better sanitary condition. The matter was some time ago delegated to a Sub-Committee, but nothing has been done to remedy this nuisance, a quantity of sewage still discharges into this open drain, and cannot help but be a menace to the health of the public in this district.

SHOP HOURS ACTS.

1,968 visits were paid by the Inspector to the various shops within the meaning of the Acts, and generally the provisions of these Acts were satisfactorily carried out by the employers; any slight defect on being pointed out has, in every case, been most willingly remedied, and not a single prosecution found necessary.

FEVER HOSPITAL REPORT.

Table of Admissions and Discharges for 1897.

	ADMITTED.				Total.	DISCHARGED.				Total.	DIED.				Total.
	Small-pox.	Scarlet Fever.	Diphtheria.	Enteric or Typhoid.		Small-pox.	Scarlet Fever.	Diphtheria.	Typhoid.		Small-pox.	Scarlet Fever.	Diphtheria.	Typhoid.	
JANUARY	...	1	2	...	3	...	1	1	1	3	...	...	...	...	...
FEBRUARY	..	1	1	...	2	...	...	1	...	1	...	...	...	...	...
MARCH	...	3	1	...	4	...	...	1	...	1	...	...	...	...	...
APRIL	...	6	...	6	12	...	3	1	3	7	...	...	...	...	...
MAY	...	6	1	...	7	...	3	1	3	7	...	...	...	...	...
JUNE	...	20	...	...	20	...	10	...	...	10	...	...	...	...	...
JULY	...	2	2	...	4	...	8	2	...	10	...	...	...	...	...
AUGUST	...	3	3	...	6	...	15	1	...	16	...	...	...	...	...
SEPTEMBER	...	1	1	...	2	...	1	3	...	4	...	...	...	...	...
OCTOBER	...	3	...	...	3	...	3	...	...	3	...	...	...	...	...
NOVEMBER	2	1	1	...	4	...	4	...	...	4	...	...	1	...	1
DECEMBER	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
TOTAL.....	2	47	12	6	67	...	48	11	7	66	...	...	1	...	1

67 patients were admitted during the year, in addition to two remaining under treatment at the end of 1896. 66 were discharged convalescent, 1, a child under 5 years of age, died of diphtheria, and 2 remained under treatment at the close of the year.

In addition to the above, 19 persons were admitted to the Isolation Wards for observation and re-vaccination. Subsequently one of these, the wife of the small-pox patient, developed this disease and was removed to the Fever Wards; no other case occurring the remaining 18 were, in due course, discharged.

HOSPITAL ACCOMMODATION.

We are exactly in the same position as described in my last Annual Report, in this respect.

Much inconvenience has been experienced lately, owing to the occurrence of 2 or 3 cases of Small-pox, having caused the closing of our only Isolation Hospital for other infectious diseases.

This need has been bitterly complained of in the district, and is a very serious and unenviable reflection for your Authority, as well as a constant danger.

Plans have been prepared, and a site is being looked for, but the like steps were taken 3 or 4 years ago, and the matter was allowed to drop.

Better Hospital Accommodation for general infectious diseases, and special accommodation for Small-pox are urgently needed, and it is hoped these will be pushed on with all possible expedition.

I am indebted to the principal officer at Spurn Light-house (by permission of the Meteorological Office) for the mean temperature and rain-fall, and to Captain Jewitt, Dock Master, Grimsby Docks, for the direction of wind, to whom I wish to tender my best thanks.

I am, Gentlemen,

Your obedient Servant,

T. NEWBY,

Medical Officer of Health.

PORT SANITARY REPORT, 1897.

DURING the year ended 31st December, 1897, 2,564 ships were inspected, viz.:—British coasting steamers 295, sailing ships 227, fishing vessels 523. Foreign steamers 1,213, sailing ships 283, fishing vessels 23.

81 ships had crew spaces, fore peaks, or bilges foul, 8 had leaky decks, 3 defective drainage, 3 insufficient ventilation, 5 had bulkhead between W.C. and forecastle, 1 forecastle delapidated, and 1 paints stored in bow.

In most cases the ships were cleansed, and structural defects remedied with commendable promptitude. In a few cases where there was not time to make the necessary improvements before the ship left the Port, the Sanitary Authority of the Port where the ship was bound were communicated with.

19 ships had drinking water tanks emptied, and supplied with fresh water.

The water boats, 5 in number, were frequently inspected and found clean and in good order.

CANAL BOATS.

303 of these were inspected and generally found clean and in good order, the occupants numbered 586 males, 97 females, and 135 children.

32,027 emigrants and passengers passed through the Port during the year, the boats carrying these were in a good sanitary condition.

I have on several occasions visited the Emigrants' Home, and always found it very satisfactory. The closet accommodation lately in use at the Home has been removed to a more suitable position, and will, when completed, be an improvement long desired.

CASES OF SICKNESS.

January 13th.—Swedish steamer "Eos," from Malmo, donkeyman suffering from diphtheria, was removed to Fever Hospital, the forecastle and the man's clothing thoroughly disinfected.

January 29th.—Steam trawler Merlin. Chief engineer brought in suffering from Heart Disease (died).

- February 3rd.—Smack Queen of the Waves. One of the crew taken home suffering from Influenza.
- February 6th.—Smack Oregon. One of the crew suffering from Catarrh taken home.
Smack Dovercourt. One of the crew suffering from Influenza was taken home.
- February 19th.—Smack Little Emma. An apprentice brought in suffering from Rheumatic Fever, removed to District Hospital.
Smack Eva. One of the crew died at sea and was brought home. (Inquest) verdict of Jury, Heart Disease.
- June 8th.—S.S. Mount Edgcombe, from Palamos. One of the crew suffering from Diarrhœa, remained on board ship.
- July 24th.—S.S. Leeds. One of the crew died. (Inquest) verdict, Hemorrhage on the Brain.
- August 31st.—S.S. Malta. Chief engineer, suffering from Diarrhœa and Spasms, went home.
- October 3rd.—S.S. Rupert. One of the crew died at sea of Epileptic Fit.
- November 1st.—Nerwegian barque Harfruen. One of the crew died at sea and buried. Supposed cause of death Typhoid Fever Cabin and 42 articles of clothing disinfected, and 13 articles of bedding, &c, destroyed.
- November 13th.—Norwegian steamer Phönix. 2nd mate suffering from Rheumatism, was removed to District Hospital.
- December 6th.—Smack Premier. One of the crew suffering from Rheumatism, was removed to District Hospital.
- December 24th.—Smack Amy. One of the crew taken home suffering from Rheumatism.

92 workshops were inspected. Three were limewashed, according to notice. On the whole they are clean and in a satisfactory condition.

Nuisances dealt with:—27 accumulations of refuse removed, 7 rain-fall pipes repaired, 2 privies closed, 5 dirty privies cleaned out, 2 choked drains cleared, 3 gullies fixed, 2 dirty passages cleaned out, 1 case of defective paving has been relaid, and the new siding at pontoon has been paved.

FOOD SUPPLY.

This supply has been carefully watched, and the following destroyed as unfit for human food, viz.:—701 packages of smelts, 645 stones of shrimps, 174 stones of haddocks, 900 herrings, 213 stones of gurnets, 217 skate, 19 stones of whiting, 250 mackerel, 3 halibut, 5 ling, 28 stones of codlings, 56 stones of dabs, 60 tusk, 7 codfish, and 12 roker.

WATER SUPPLY.

Two samples of pump water were taken and submitted to the Borough Analyst, for analysis, the result showing the water to be polluted and unfit for domestic purposes. Notices were served upon the Owners to discontinue the use of these waters, which were complied with.

Special Hospital accommodation for sea borne infectious diseases is still wanting. Should cases arrive when our present building is occupied, as recently, with small-pox, we should be in a very awkward position.

I am, Gentlemen,

Your obedient Servant,

T. NEWBY, M.D.,

Port Medical Officer of Health.

GRIMSBY URBAN SANITARY AUTHORITY.

SANITARY DEPARTMENT,

TOWN HALL, 1898.

ANNUAL REPORT OF THE SANITARY INSPECTOR, FOR 1897.

GENTLEMEN,

I have the honour to present to you my fourth annual report upon the operations of the Sanitary Department during the year 1897.

PARTICULARS.*Drainage.*

	Western District.	Eastern District.
Choked Drains and Cesspools cleared	337	230
New Water Closets fixed	29	42
W.C.'s and Drains tested	50	6
New Drains laid	8	7
Defective W.C.'s repaired	3	6
Inspection Chambers fixed on Drains	3	...
Old Pan Closets removed	1	1
Broken Soil Pipes repaired	4	...
Sink Wastes disconnected from Sewer	11	4
Broken and choked Fall Pipes put in order	19	41
Ventilators fixed to Soil Pipes	2	...
Tile Drains replaced by Sanitary Pipes	...	2
Defective Drains under houses	...	4
Leaky Drains repaired	...	2
Cesspools without covers	...	18
Cesspits filled up and Piped over	6	4
P Traps and Washout Gullies fixed (replacing untrapped Brick Cesspools)	56	120
Gullies fixed (replacing untrapped Brick Cesspools)	44	16
Insanitary Urinals dealt with	1	1

General Nuisances and Routine Work.

	Western District.	Eastern District.
Dirty Passages, Courts, and Yards cleaned out	7	6
Filthy Houses cleaned	10	59
Refuse accumulations removed	292	277
Smoke nuisances abated	12	15
Dirty Piggeries cleaned out (and 1 provided with drainage)	6	2
Piggeries within limit of dwelling removed	1	...
Defective Eave Spouts repaired	4	...
Nuisances from stench in Houses investigated	2	8
Defective Paving in Yards and Courts repaired	27	47
Dirty Cowsheds cleaned out	1	2
Dirty Fowl Runs cleaned out	8	23
Insanitary Ashpits dealt with	8	39
Houses thoroughly cleaned (after Small-pox)	...	2
Insanitary Stables put in order	...	4
Damp Basements of Houses	1	4
Nuisances from gas escape discovered	4	3
Privy Box Holes (provided with new doors)	7	...
New Ashpits built	1	...
Broken Privy Seats and Frames repaired	4	...
Defective Paths to Houses repaired	16	...
Visits to inspect Slaughter-houses	893	1192
Visits to inspect offensive Trades Premises	261	312
Visits to inspect Lodging Houses	382	104
Visits to inspect Bakehouses	52	74
Informal Letters and Notices served <i>re</i> Nuisances	...	420
Legal Notices served (by Order of the Authority)	3	5
Rooms disinfected after Infectious Disease	105	122
Articles of Bedding, Clothing, &c., treated at the Public Disinfectory (No. of)	1091	903
Articles of Bedding, Clothing, &c., destroyed	70	126
Visits to Premises to investigate Nuisances	1313	...
Visits to Cowsheds and Dairies	...	44
Cowsheds limewashed (after Notice)	...	3

Water Supply.

	Western District.	Eastern District.
Wells opened and cleaned out	3	...
New Water Taps fixed in place of Pumps	24	2
Defective Pumps repaired	1	3
Pumps abolished	2	2
Analyses of Pump Water	16	5
Analyses of Tap Water (Town supply)	2	...

The following extract from the report presented to the Slaughter-house Committee at its Annual Meeting, on November 23rd, 1897, shows briefly, the various matters which have been dealt with during the year. 2 defaced notice boards outside slaughter-houses repainted, 5 occupiers cautioned against depositing manure and offal from the slaughtering process in the bins, 2 pinning-fold and 1 slaughter-house floors repaved, 1 gully replacing an untrapped brick cesspool, and the outer yard of house No. 16 entirely repaved. 1 licence to re-open a slaughter-house granted and 5 transfers allowed. 3 seizures of unsound

meat (from slaughter-houses) were made, the facts being duly reported to the Authority. The sanitary conditions of the slaughter-houses are well maintained by a due observance upon the part of the occupiers of the regulations in force, and a ready compliance with any suggestion which your Inspectors have found it necessary to make from time to time, to assist them in keeping their premises clean and in good sanitary order.

OFFENSIVE TRADES PREMISES.

Of these, there are 4 gut scrapers, 7 marine stores, 10 tripe boilers, 9 bone boilers and fat melters, 1 fish skin scraper, 1 manure factory, 2 Hide and Skin Markets, and 2 Oil and Manure Works outside the Borough. These places are under the control of the Slaughter-house Committee, to whom report is made as may be required. During the year, the Committee inspected the yard of a bone-boiling place in Havelock Street, directing it to be repaired, and this was done; an inspection was made of premises proposed to be used as a knacker's yard, but the application was not entertained. The establishment of a gut-scraping business in Fotherby Street has been allowed; 4 gullies have replaced untrapped cesspools at the Hide and Skin Market, and the drainage of the Haven Side Manure Works (formerly discharging into the Haven) is now connected to and trapped from the town sewers; a horse found stabled in the Fish Skin Scraper's Workshop was promptly removed. Proceedings were instituted against the establishment (without consent of the Authority) of a Bone-boiling and Fat-melting Works, the offender being convicted.

CESSPOOLS, CESSPITS, AND DRAINAGE.

Alterations of cesspools upon house property continue to make progress. In the month of April the Sub-Cesspool Committee considered reports presented concerning each Cesspool Scavengers District, and at a subsequent meeting agreed with the contractors for a reduction upon their contracts of £60 consequent upon the abolition of 1,969 brick cesspools, these being replaced by wash-out gullies and P traps, which, being self-cleansing, do not need the attention of the contractors.

The brick cesspools in the streets, too, are being rapidly removed during 1897. 88 No. 1 Sharp's Gullies have been fixed in the following streets, viz.:—10 in Duncombe Street, 9 in Nelson Street, 4 in Albert Street, 1 in Corporation Road, 4 in Robinson Street East, 3 in Robinson Street West, 4 in Freeman Street, 5 in Victoria Street, 3 in King Street, 5 in Thesiger Street, 12 in Newmarket Street, 2 in New Cartergate, 4 in Old Cartergate, 2 in Wellington Street, 6 in Garibaldi Street, 10 in Bridge Street North, and 4 in Bridge Street South.

The 9 cesspits (in Macaulay Street, Bargate, Hainton Street, Hope Street, and Cleethorpe Road) reported in 1896 as then unaltered, have since all been removed, and the drainage piped through to the sewer. A very large cesspit found under the floor inside the Salvation Army Barracks was removed promptly and the drainage diverted.

The very insanitary state of the East Marsh drain (at the Wellington Street end) has been the subject of special report by my colleague, the matter being placed in the hands of a Sub-Committee who directed the surveyor to level it up as quickly as possible.

The open drain, running behind Donington Street, has been cleaned out. 2 tile drains have been replaced by sanitary pipes.

INFECTIOUS DISEASES.

The defects met with in connection with the visitation of the 319 houses notified, are summarized as follows:—7 dirty W.C's, 45 untrapped cesspools, 13 leaky privy boxes, 1 defective pan closet, 2 defective soil-pipe joints, and bath waste connected direct to sewer, 1 unventilated upper and lower W.C., 1 escape of gas, 1 choked fall pipe, 3 untrapped sink wastes, 1 piggery too near a dwelling, 1 base of defective paving round a gully, 6 choked drains, 3 refuse accumulations, 9 dirty premises at back of houses, 1 damp basement wall, 12 smell tests were applied to drains.

The defects named were promptly remedied upon application to the responsible persons. In 7 instances milk (and 2 others), bread were sold from the premises, the instructions of the Medical Officer of Health were observed and carried into effect in each case.

11 pump waters (supplying houses) were analysed, each being certified to be fit for domestic use.

227 rooms were disinfected, and 1,994 articles of bedding, clothing, etc., treated at the Public Disinfector, 196 articles being destroyed.

The cleaning and disinfection of the houses in connection with the small-pox cases was effected in the most thorough manner, and to the expressed satisfaction of the Medical Officer of Health.

I have to again acknowledge the ready help accorded to me by my colleague (Mr. J. W. Shaw), as also the services of Mr. J. H. Smith for clerical assistance in the health department.

I am, Gentlemen,

Your obedient Servant,

HENRY F. MOODY, Assoc. San. Inst.,
Borough Sanitary Inspector.

