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CITY AND COUNTY OF KINGSTON UPON HULL.

ANNUAL REPORT.

OF THE

MEDICAL OFFICER OF HEALTH.

J. WRIGHT MASON, M.B., C.M., D.P.H., M.R.C.S.E.,

Medical Officer of Health,

Medical Superintendent of the Sanatorium, Surgeon to the Hull City Police,

Medical Officer of Health 10 the Hull and Goole

Port Sanitary Authority.

HULL:

M. HARLAND AND SON, PRINTERS, MANOR STREET.

1899.



SANITARY COMMITTEE.

Chairman-Mr. Alderman Fraser.

Vice-Chairman-Mr. Councillor COHEN.

Mr. Councillor Peter Atkinson, Mr. Councillor Millington, J.P.

Mr. Councillor W. J. ATKINSON, Mr. Councillor NORTH,

Mr. Councillor Briggs, Mr. Councillor Richardson,

Mr. Councillor Feldman, Mr. Councillor Robinson,

Mr. Councillor Holder, J.P., Mr. Councillor Shaw,

Mr. Councillor Kessen, Mr. Alderman Sherburn, J.P.,

Mr. Councillor McLaren, Mr. Councillor Skinner,

Mr. Councillor WORK.

The Mayor (Mr. Councillor Gelder), (ex-officio).

Ex-Mayor (Mr. Alderman Crook), (ex-officio).

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TOWN HALL, CITY AND COUNTY OF KINGSTON UPON HULL.

To the Sanitary Committee.

GENTLEMEN,

I have the honour to submit to you my Annual Report for the year ending December 31st, 1898, comprising the Statistical Returns of the Deaths in the City, the measures adopted for the prevention of disease, and the work done in the Sanitary Department.

I am, Gentlemen,

Your obedient Servant,

J. WRIGHT MASON.

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City and County of Kingston upon Bull.

REPORT, 1898

VITAL AND MORTAL STATISTICS.

Births.

DURING the twelve months ending December 31st, 1898, there were registered in the City and County of Kingston upon Hull, according to the returns furnished by the Registrars, 7696 Births and 4141 Deaths. Of the Births, 4086 were males and 3610 females.

The Birth-rate was equal to 33.4 per 1000 of a population of 229,887 of all ages, the official estimated population to the middle of 1898, residing in 56,861 houses, this being an average of 4.0 persons to each inhabited house. The average Birth-rate for the thirty-three great towns was 30.3 per 1000.

The excess of Births over Deaths in 1898 representing the natural increase of the population, was 3555, against 3376 and 2880 in the years 1897 and 1896 respectively.

The average density of population per acre in 1898 was 24.9. The average density of the thirty-three largest towns in England was 35.3 per acre.

The annual rateable value of the City in 1898-9 was £913,793.

Deaths.

The annual death-rate from all causes for the year under notice was equal to 18.0 per 1000, namely:—

1st quarter. 2nd quarter. 3rd quarter. 4th quarter. 18·1 15·4 21·2 17·0

Of the deaths, 2239 were males and 1902 females.

The death-rate, according to the Registrar-General's returns for thirty-three of the largest English towns, including London, averaged 19:0 per 1000 per annum, and ranged from 24:0 in Liverpool and 22:7 in Salford to 22:6 in Sunderland, 21:9 in Manchester, 21:4 in Newcastle, and 21:3 in Wolverhampton.

The following table gives the annual birth-rate and deathrate, with the corresponding Zymotic death-rate, for the years 1870 to 1898:—

Year.	Births.	Deaths.	Population.	Birth-rate per 1,000.	Death-rate per 1,000.	Zymotic-rate per 1,000.
1870	4406	2851	119,500	36	23	5
1871	4473	2841	122,260	36	23	4
1872	4875	3266	125,210	38	26	6
1873	5153	3101	128,225	40	24	3
1874	5353	3340	131,315	40	25	5
1875	5436	3666	134,480	40	27	6
1876	5726	3131	137,630	41	22	3
1877	5822	3032	141,050	41	21	2
1878	6004	3471	144,450	41	24	4
1879	5885	3311	147,940	38	22	2
1880	5650	3532	151,500	37	23	4
1881	5634	3677	155,160	36	23	6
1882	5761	3705	158,814	36	23	4
1883	6353	3970	176,296	36	22	2
1884	6803	3834	181,225	37	21	3
1885	6269	3221	186,292	33	17	1
1886	6387	3563	191,501	33	18	2
1887	6462	3718	196,855	32	18	2
1888	6230	3297	202,359	30	16	1
1889	6820	4157	208,017	32	19	2
1890	6612	4047	213,833	31	19	1
1891	6922	4133	200,934	34	20	1
1892	8572	3965	204,750	41	19	2
1893	7109	4503	208,639	34	21	4
1894	6854	3604	212,679	32	16	1
1895	7340	4445	216,722	33	20	3
1896	7011	4131	220,844	31	18	3
1897	7465	4089	225,045	33	18	2
1898	7696	4141	229,887	33	18	2

Infantile Mortality.

The Infantile Mortality, measured by the proportion of deaths under one year of age to births registered, was 190 per 1000. For the thirty-three most populous towns in England and Wales, the proportion of deaths under one year to births registered, averaged 178 per 1000.

No. 1.—TABULATED RETURN, SHEWING THE TOTAL NUMBER OF DEATHS FOR THE YEAR 1898, AT CERTAIN AGES.

Totals.	561 262 321 726 786 943 424 100 11	4141
sans Years and Upwards.	0 1 2 1 1 2 1 1 2 1 1 2 1 1 1 1 1 1 1 1	53
75 Years and Under 85.	37 16 26 73 45 68 19 14	299
65 Years and Under 75.	41 17 35 113 68 95 21 11 	401
sans Years and Under 65.	24 24 27 80 87 74 29 7	376
ears Z4 and Under 55.	57 24 26 59 102 75 25 6	375
sand sand Under 45.	32 13 13 35 80 80 80 80 6 	256
25 Years and Under 35,	31 32 32 44 18 18 1.5 	210
I5 Years and Under 25.	34 425 425 425 77 11	181
5 Years and Under 15.	23 112 27 27 36 14 13	141
I Year and Under 5.	877 877 864 94 42 64 72 73 74 75 75 75 75 75 75 75 75 75 75 75 75 75	382
Under One Year.	213 108 125 210 206 354 209 33 7	1467
DISTRICTS.	Drypool Sutton. East Sculcoates. West Sculcoates. Humber Myton Newington Newland Stoneferry Marfleet	Totals

Table No. 2.—Shewing the Deaths Registered from all causes, with classification of ages, during the year 1898.

	1				1	AGES	3.					oi.
	0 to 1	to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	S5 and upwds.	TOTALS.
I. SPECIFIC FEBRILE, OR ZYMOTIC DISEASES II. PARASITIC DISEASES III. DIETETIC DISEASES	1 68 91 523 19	128 41 177 16 20	27 49 41 20	21 78 52 20	13 89 77 18	8 84 126 28	8 2 106 211 29	3 2 83 6 252 11	7 53 57 262 9	9 18 115 145 5	 2 34 15 1	636 1 4 671 303 1881 176 469
Totals	1467	382	141	181	210	256	375	376	401	299	53	4141
I.—Specific Febrile, or Zymotic Diseases.												
1.—MIASMATIC DISEASES. Small-pox Measles Scarlet Fever Typhus Whooping Cough Diphtheria Simple Continued and Ill-defined Fever Enteric or Typhoid Fever Other Miasmatic Diseases	29 3 34 1	32 7 4	 6 7 1 2 9	1 18						 1		79 27 67 10 57
2.—DIARRHŒAL DISEASES. Cholera Choleraic Diarrhœa Diarrhœa English Cholera 3.—MALARIAL DISEASES. Intermittent Fever	325		2	 1			 1		5	6		 365
4.—Zoogenous Diseases. Cow-pox and effects of Vaccination Other Diseases (c.g., Hydrophobia, Glanders, Splenic Fever)												
5.—Venereal Diseases. Syphilis	17					1	2					20
Erysipelas				 1	1	2		1	1	2	:::	9 2

Table 2.—Continued.

					1	AGES	3.					- 60
	to 1	to 5	5 to 15	15 to 25	25 to 85	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 and upwds.	TOTALS.
II.—Parasitic Diseases. Thrush, and other Vegetable Parasitic Diseases Worms, Hydatids, and other Animal Parasitic Diseases	1							://:				1
III.—Dietetic Diseases. Want of Breast Milk, Starvation, Improper Feeding Scurvy Chronic Alcoholism Delirium Tremens							2	2				 4
IV.—Constitutional Diseases. Rheumatic Fever, Rheumatism of the Heart Rheumatism Gout Rickets Cancer, Malignant Disease. Tabes Mesenterica Tubercular Meningitis, Hydrocephalus Phthisis Other forms of Tuberculosis, Scrofula Purpura, Hemorrhagic Diathesis Anæmia, Chlorosis, Leucocythæmia Glycosuria, Diabetes Mellitus Other Constitutional Diseases	 28 21 8 8 2	 3 21 9 7 	1 2 1 27 10 4 1 1 2	1 2 2 4 56 9 1	 1 7 2 64 8 3 3 1	11 19 53 6 1 4	 52 1 36 9 2 6	 1 1 46 2 21 3 3 1 5	31 31 12 1 2	11 1 1 2 2	 1 1 	2 14 2 170 31 79 270 56 12 9 26
Atelectasis Congenital Malformations Old Age VI.—Local Diseases.								6	 57	 115	 34	91 212
1.—DISEASES OF NERVOUS SYSTEM. Inflammation of Brain or Membranes Apoplexy, Softening of Brain, Hemiplegia Brain Paralysis Insanity, General Paralysis of the Insane Epilepsy. Convulsions Laryngismus Stridulus (Spasm of Glottis) Disease of Spinal Cord, Paraplegia, Paralysis Agitans Other Diseases of Nervous System	2	1 5 19 1	2 2 1 2	1 3 3 5	2 6 1 3 	1 11 1 6 1 	19 1 4 1 1 7	31 5 3 3 1 2	50 3 8 2 1	21 4 4 1 2	 4 1 	7 154 14 28 14 160 2 23

15

Table No. 2.—Continued.

					AG	ES.						oř.
	to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 and upwds.	TOTALS.
2DISEASES OF ORGANS OF SPECIAL SENSE.												
(e.g., of Ear, Eye, Nose)			2			1						3
3.—Diseases of Circulatory System.												
Pericarditis Acute Endocarditis Valvular Diseases of Heart Other Diseases of Heart Aneurism Embolism, Thrombosis Other Diseases of Blood Vessels	1 4	1 5 	1 1 4 3 	 5 3 1	1 7 12 	 1 9 14 6 2 	1 26 38 8 2 	3 22 45 3 	20 41 1 2	 7 31 5	5	7 3 101 242 19 12
4.—Diseases of Respiratory System.			-							70000		
Laryngitis Croup Emphysema, Asthma Bronchitis Pneumonia Pleurisy Influenza Other Diseases of Respiratory System	2 136 53 1	4 5 42 48 	2 3 2 6 1	 2 10 1 	 5 6 1 6	2 8 11 4 7	 1 32 22 6 9	 61 15 2 11	77 15 3 11	1 41 5 1 8	4	11 10 1 410 191 18 54
5.—DISEASES OF DIGESTIVE SYSTEM.												
Dentition Sore Throat, Quinsy. Diseases of Stomach Enteritis and Dysentery. Obstructive Diseases of Intestine. Peritonitis Ascites Cirrhosis of Liver. Jaundice and other Diseases of Liver. Other Diseases of Digestive System	2 126 5 1 	12 2 20 4 1	 1 3 	 1 2 3 6 	 1 2 3 1 	3 6 6 2	 4 4 2 7	 1 8 5 1 1 8 1 	 2 11 3 5 1	3 3	1	50 9 130 35 27 1 27 6 1
6.—Diseases of Lymphatic System.												
(e.g., of Lymphatics and of Spleen)												
7.—DISEASES OF GLAND-LIKE ORGANS OF UNCERTAIN USE.												
(e.q., Bronchocele, Addison's Disease)												
8.—Diseases of Urinary System.												
Nephritis Bright's Disease, Albuminuria Disease of Bladder or of Prostate Other Diseases of the Urinary System		1 	4 1 	1 1 	7 2 1	5 5 1	5 3 3 4	7 5 1 3	2 4 	3 1 		36 22 4 9

Table No. 2.—Continued.

					AC	ES.						9
	to 1	1 to 5	5 to 15	15 to 25	25 to 85	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 and upwds.	TOTALS.
9.—Diseases of Reproductive System. A. Of Organs of Generation.									1			
Male Organs				 1	 1	2		2		 1		7
B. Of Parturition. Abortion, Miscarriage				1	1	2						4
Puerperal Convulsions Placenta prævia, Flooding Other Accidents of Child Birth				 1	4	 2 4						2 9
10.—Diseases of Bones & Joints.												
Caries. Necrosis Arthritis, Ostitis, Periostitis Other Diseases of Bones and Joints				 1	1			1 1		2		2 1 15
11.—DISEASES OF INTEGUMENTARY SYSTEM.												
Other Diseases of Integumentary System												
VII.—Violence.												
1.—ACCIDENT OR NEGLIGENCE. Fractures and Contusions Gunshot Wounds Cut, Stab Burn, Scald Poison Drowning Suffocation Otherwise	 1	2 1 12 1 	6 7 6 1	5 1 1 6 1 	5 1 5 1	8 1 1 8	13 1 1 6 1 	5 1 1 1	3 2 3 	2 1 1 	1	51 1 27 4 37 19 3
2.—HOMICIDE. Manslaughter Murder				1		 1						1
3.—SUICIDE. Gunshot Wounds				 3 1 1	 2 2 2	 4 3 2	1 2 4	1 1 1 	1 	"i ": …		1 4 9 9 9
VIII.—Ill-Defined and Not Specified Causes.												
Dropsy Debility, Atrophy, Inanition Mortification Tumour Abscess Hæmorrhage Sudden Death (cause not ascertained) Causes not specified or ill-defined	331	13 1 3 1 2	 1 3	1 2 6 1 	 2 1 7 2 1	1 5 1 3	1 2 5 7 3 	 2 4 4 1 8	1 2 4 3 2 1 	1 1 1 1 1 	1 	1 353 8 17 38 12 40

Summary of Table No. 2.

	No. of Deaths.
I.—Specific Febrile, or Zymotic Diseases—	
1. Miasmatic Diseases	240
2. Diarrhœal "	365
3. Malarial ,,	
4. Zoogenous ., 5. Venereal	20
6. Septic ,,	11
II.—Parasitic Diseases	1
III.—Dietetic Diseases—	4
IV.—Constitutional Diseases	671
V.—Developmental Diseases	303
VI.—Local Diseases—	
1. Diseases of Nervous System	402
2. Diseases of Organs of Special Sense	3
3. Diseases of Circulatory System 4. Diseases of Respiratory System	384
5. Diseases of Digestive System	695 286
6. Diseases of Lymphatic System	200
7. Diseases of Gland-like Organs of Uncertain Use	
8. Diseases of Urinary System	71
9. Diseases of Reproductive System—	1
(a). Diseases of Organs of Generation	7
(b). Diseases of Parturition	15 18
11. Diseases of Integumentary System	
VII.—Violence—	
1. Accident or Negligence	142
2. Homicide	2
3. Suicide	32
VIII.—Ill-Defined and not Specified Causes	469
TOTAL	4141



No. 4.-MORTALITY IN TWENTY LARGE TOWNS, 1881-1898.

	*Croydon	Blackburn	Sunderland	Oldham	*Cardiff	Portsmouth	Leicester	Salford	Newcastle	H ull	Bradford	Nottingham	*West Ham	Bristol	Sheffield	Leeds	Birmingham	Manchester	Liverpool	London	CITIES AND BOROUGHS.	
	:	:	20.9	22.8	:	19.7	21.8	22.6	21.8	23.8	19.7	22.4	:	19.6	21.1	21.6	20.0	25.5	26.7	21.2	1881	
	:			24.6															26.5		1882	
	:	24.5	24.5	22.0	20.2	18.6	19.4	22.4	25.5	22.5	18.3	21.3	:						26.7		1883	
	:	24.1	23.0	24.4	24.4	19.3	22.0	22.3	23.1	21.1	20.1	22.9	:						25.2		1884	
	:	21.8	23.8	22.0	25.7	17.1	19.8	21.1	21.1	17.2	17.7	19.9	:						23.8		1885	
	:	25.5	19.5	22.8	22.6	23.8	20.3	21.1	22.2	18.8	19.2	20.4	:	19.3					23.8		1886	Annual
	:			23.8										20.4					23.7		1887	Annual Death-rate per 1000
	:	23.9	18:1	20.3	20.5	18.8	18.3	21.1	20.6	16.4	17.1	17.3	:	16.9					20.3		1888	ate per l
1 2 3	:	25.5	22.9	20.4	19.5	18.1	16.9	20.5	25.2	20.3	19.2	17.0	:	17.6					21.6		1889	000 living
	:			21.2										19.2							1890	(in
				25.7										20.9							1891	years of 5
	ò	7	9	Ö	œ	0	10	6	7	6	0	-1	6	19.5	00	00	4	00	-1	9.	1892	52 or 53
	8	cio	0	0	7	10	0	H	0	00	0	07	9	18.9	ಯ	ಯ	0	9	0	ಯ	1893	weeks).
	22	9	ò	6	62	61	~	0	00	4	0	12	10	17.3	00	9	6	4	ò	ó	1894	
	14.5	24.3	21.8	22.0	18.2	17.8	17.2	25.6	20.5	20.8	19.9	19.0	17.9	18.1	20.5	20.5	20.3	25.2	28.8	19.8	1895	
	H	9	oc	cio	œ	6	7	6	5	9	0	5	6	9	ಯ	ò	ó	6	-1		1896	
	1	0	-	24 1	ė	12	7	9	H	6	4	00	7	64	63	9	6	Ė	4		1897	
	13.9	18.4	9.22	17.6	14.8	16.3	16.9	22.7	21.4	18.4	17.6	17.7	15.4	17.2	20.2	19.2	20.0	21.9	24.0	18.7	1898	

* Note-These towns were not included in previous years.

No. 3.—TABLE SHEWING BIRTHS, DEATHS, AND METEOROLOGICAL CONDITIONS, 1898

000T 1	BATE PEI	DEATH			Sasvasi	DEVIHS DEVIHS LEON ZANOLIC DISEVSE				nesp	usold		.3181	отьянии	ar		9091					
UV UV	nestraid	oilonryZ	Deaths from Distribute	Forers	Whoop-	Diph-	-sireoR soit		zo4 Ham8	Sents 32 Over	Over one has ned suber five surely	Luder one	All	oter-drid	Births	thumidity.	HatmiaH sədəni ni	Lowest	\$sofigiH	nest	NDING	.8681 a Theintac
2.21		0.1			I	•••	8	g		94	61	21	155	1-18	608	1-98	68.0	0-82	0.86	9.24	8	Viennal
1.2.1	I-0	0.6	I	8	8	I	6 .	8	***	62	23	61	121	9.98	218	6-28		0.62	0.00	9-17	77	
12.4	1.0	0.6	I	7	ç		8	1		69	91	28	181	24-2	908	†·18	69.0	0.82	0.99	45.8	g	Azenzqa
12-2		I-I		I	T	I	I	9		78	55	92	122	6.18	628	č:08	81.0	0.08	0.00	C-T*	61	
.81	1.0	7·I	I	I	8	I		ç		28	6 I	9†	191	85.8	SIS	9.88	89.0	0.73	0.81	8-28	g	iloral
58-		8-1		1	Ť		I	9		811	68	19	907	T-#8	202	9-62	93.0	52.0	0.89	8.07	61	
19.2		8-1			1	I	I	g		68	97	49	821	8.78	987	0.28	T6-0	0.72	24.0	6.88	7	liad.
8-61		7·I			6		I	8		96	88	6 F	921	0.18	923	8-72	10.7	0.43	0.89	9.47	91	**
9-91	1.0	1-1	ī		+		7.	8		78	91	18	211	8.98	218	9.92	₹8-0	0.08	0.19	8.11	08	**
9-FT	1.0	8-1	I		Ŧ		6	ę		09	81	88	120	9.88	867	9-72	66-0	0.98	0.89	9.81	+1	Auj
6-81	1.0	8-1	1	7.	7	I	I	e		09	81	98	153	F-98	228	0.02	0.23	0.78	0.79	F-27	87	46
1-71		8-1			ç	I	I	ç		79	II	67	011	8.88	663	0.62	86-0	0-FS	0.02	P-79	11	aur
18-1	2.0	1.3	7.		g		7.	8		89	11	98	771	1.18	208	0-#2	92.0	0.28	0.17	0.99	93	
11-5	8.0	I-I	g	3	7.		T	7		12	71	98	871	2.18	208	0.82	99-0	F-29	0.92	9.05	6	Apr
11.5	g-0	2·1	8 11		T		Y	7.		27	71	98	701	1-18	872	0.82	11.0	0.07	0.22 0.#2	9.69	82	
18:3	9.†	P-0	I.F	8	- 6 - T			1		09 159	01	98 9F	791 671	8.08	808 828	₱-92	2F-0 00-Z	0.77	0.18	6-09	00	1snSn
1.23	6-8	0.6	92		8	1				₹2 00	8	981	243	9.88	718 700	1.98	1.27	0.77	0.92	7.69		ptember
8-63	8-8	F-6	84	8		I		6		78	2.7	011	197	99.99	467	1.08	10.0	0.87	82.0	8.89	1	
0.08	8.6	6.01	78	Q.	ģ	***				18	61	9+1	997	9.78	888	0.87	72.0	0.78	0.03	8-89	,,	refote
8.82	6.4	6.∓	01	3	I	I				06	98	88	112	F-28	8173	T-28	08.0	0.98	0.99	6.13	GI	
6-21	†-I	1.8	1.5	01	Ť			I		F-2	6.1	90	691	1.88	867	1.78	2.83	0.68	0.99	6.29	62	
8-91	2.0	8-I	6	2		***	8	T		67	21	88	611	1.58	782	0.78	96.0	0.98	0.19	2.29		тебіпето
15.2	Z-0	9.0	- ē	8	***	***	***	I		86	.9	22	III	2.67	197	1.68	19.1	0.97	0.00	1.77	92	"
9.01	1.0	6.0	I	9	I	***				92	11	98	881	9.08	618	8.88	98-0	0.08	0.80	0.77	01	redmess
2.81	1.0	2.0	I	6	6					02	11	88	211	85.5	682	8-18	13.0	0.68	0.99	1.24	1.2	



CHART showing the COMPARATIVE NUMBER of the TWENTY-EIGHT principal causes of DEATH during the year 1898.

Deaths from Zymotic Diseases

Deaths from Other Diseases

No. 5.—TABLE SHEWING THE BIRTH-RATE, DEATH-RATE, ZYMOTIC AND INFANTILE MORTALITY, AND THE DISTRICTS IN WHICH THEY HAVE OCCURRED, 1898.

	-											
Rate per 1000 of Deaths from all causes and under 1 year. 5 years.	Ξ	5.6	2.4	1.3	1.6	5.0	1.8	2.0	:	:		1.6
Rate per 1000 of Deaths from all canees under I year.	0.9	2.2	8.3	4.5	5.5	2.2	0.6	4.1	0.2	:		6.9
Zymotie Death-rate per 1000.	2.2	3.5	3.7	1.9	1.8	3.0	3.4	1.7	5.7	:		9.7.
Death-rate from all causes per 1000.	16.0	18.7	21.4	15.7	20.1	20.0	18.4	12.5	9.01	:	0.0	0.81
Birth-rate per 1000.	39.6	8.68	35.1	25.6	23.7	37.4	44.5	81.3	17.3	:	7.00	55.4
Persons to an sere.	20.5	47.6	53.5	93.3	95.2	64.9	15.3	4.4	1.1	0.5	04.0	G. 4 2
Area in acres.	1752	305	284	493	409	722	1498	1872	585	1285	0000	2026
Estimated Population.	35548	14531	15127	46041	39061		CN		1035	293	00000	100622
DISTRICT.	Drypool	Sutton	East Sculcoates.	West Sculcoates.	Humber	Myton	Newington	Newland	Stoneferry	Marfleet	C:t-: Doto1	Olly Lotal

Marriages.

During the year 1898, the number of marriages registered in the City was 2160, as against 2202 in 1897, 1977 in 1896, and 1841 in 1895. The marriages were distributed over the four quarters of the year as follows:—First quarter, 388; second quarter, 571; third quarter, 530; fourth quarter, 671.

The marriage rate, *i.e.*, persons married to 1000 inhabitants, was 18.6 in 1898 as against 19.5 in 1897, 17.8 in 1896, and 17.0 in 1895.

The marriage rate in England and Wales was 18.7 per 1000, compared with 16.0 in 1897, 15.7 in 1896, and 16.6 in 1895.

The following table shews the number of marriages that have taken place in Hull during the undermentioned years:—

-	Year.	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898
	No. of Marriages	1697	1824	1764	1798	1872	1636	1845	1841	1977	2202	2160

Specific Febrile, or Zymotic Diseases.

This class of diseases accounted for 636 deaths, as against 690 in the year 1897 and 746 in the year 1896, the death-rate for 1898 being equal to an annual rate of mortality of 2.7 per 1000 persons living.

Seven Principal Zymotics.

Six hundred and five deaths have been recorded from the seven principal Zymotic diseases; a mortality at the rate of 2.63 per 1000 of the population, and distributed over the four quarters of the year as follows:—First quarter, 84; second quarter, 74; third quarter, 333; and fourth quarter, 114 respectively.

The average number of deaths from the seven principal Zymotics for the past 20 years was 550.

The death rate from these diseases during the year 1898 in the thirty-three great towns, including London, averaged 2.85 of their estimated population. The highest aggregate rates from the seven Zymotic diseases above enumerated were 3.35 in Leicester, 3.69 in Sunderland, 3.82 in Sheffield, and 4.03 in Salford.

The following table shews the deaths per 1000 from the seven principal Zymotic diseases in Kingston-upon-Hull for the years 1872 to 1898, both inclusive:—

Year.	Seven Zymotic Diseases.	Small Pox.	Measles.	Scarla- tina.	Diphth- eria.	Whooping Cough.	Fevers.	Diarrhoa
1872	6.50	1.72	0.10	0.53	0.06	0.80	1.37	2.22
1873	3.90	0.50	0.31	0.28	0.05	0.33	0.95	1.77
1874	5.25	0.03	0.38	1.40	0.09	0.37	1.29	1.69
1875	6.16	0.01	0.23	2.07	0.05	1.00	0.80	1.99
1876	3.52	0.00	0.33	0.45	0.07	0.44	0.55	1.71
1877	2.94	1.01	0.28	0.22	0.09	0.44	0.40	1.50
1878	4.13	0.01	0.03	0.14	0.04	0.40	0.65	2.87
1879	2.33	0.00	0.26	0.23	0.10	0.61	0.36	0.47
1880	4.80	0.00	1.34	0.40	0.03	0.95	0.31	1.75
1881	6.12	0.03	0.05	4.48	0.03	0.24	0.39	0.90
1882	4.59	0.10	0.52	1.66	0.05	0.18	0.37	1.68
1883	2.91	0.03	0.04	0.44	0.15	1.28	0.36	0.68
1884	3.53	0.09	0.47	0.59	0.14	0.34	0.40	1.82
1885	1.06	0.05	0.08	0.50	0.03	0.16	0.50	0.31
1886	2.33	0.00	0.14	0.24	0.05	0.40	0.14	1.37
1887	2.70	0.01	0.62	0.34	0.05	0.41	0.14	1.10
1888	1.16	0.09	0.01	0.18	0.04	0.21	0.16	0.42
1889	2.80	0.00	0.91	0.06	0.04	0.55	0.21	1.02
1890	1.61	0.01	0.07	0.11	0.07	0.35	0.17	0.85
1891	1.45	0.00	0.35	0.09	0.05	0.15	0.18	0.60
1892	2.43	0.00	0.70	0.11	0.04	0.54	0.15	0.85
1893	4.01	0.04	0.59	0.15	0.09	0.36	0.45	2.27
1894	1.57	0.01	0.42	0.17	0.08	0.37	0.15	0.33
1895	3.21	0.00	0.07	0.17	0.11	0.50	0.55	2.41
1896	3.50	0.00	1.15	0.24	0.17	0.47	0.27	0.86
1897	2.96	0.00	0.09	0.27	0.08	0 25	0.53	2.00
1898	2.63	0.00	0.34	0.11	0.04	0.59	0.24	1.58

No. 6.—TABLE SHEWING THE DEATHS FROM THE PRINCIPAL ZYMOTIC DISEASES IN THE TWENTY YEARS, 1879 to 1898.

	i	:	19.0	6.5	2.4	16.1	18.7	88.1	146.1
:	:	:	42	27	10	29	22	365	909
	:	:	5.9	15.1	4.6	13.9	12.9	110.2	162.8
:	1	1	22	65	19	29	53	451	999
:	:	:	256	54	39	106	61	191	202
:	:	:	17	88	25	44	49	524	269
:	:	00	91	22	19	7.9	34	72	335
12	:	6	126	99	20	77	96	474	847
62	:	:	145	24	10	111	31	176	499
:	:	:	71	1.9	12	555	57	122	293
:	:	00	15	25	16	70	35	183	347
:	:	:	191	15	10	115	44	213	586
:	:	19	4	88	10	44	34	98	235
:	:	21	123	67	11	85	29	217	531
:	:	:	28	47	4	78	27	262	446
:	:	10	15	80	1-	31	80	59	198
:	:	18	98	43	27	62	73	381	513 640 198
:	:	1-	00	1-	21	226	58		513
:	:	16	83	263	00	30	09		726
:	<u>.</u> :	4	00		60	43	62	187	902 984 726
:	:	:	299	09	60	125	48	367	
:	:	:	17	92	13	88	54	99	299
Cholera	" (English)	Small Pox	Measles	Scarlatina	Diphtheria	Whooping Cough	Fevers	Diarrhœa	Totals 299
		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	(English)	(English)	(English)	(English)	(English) .

THE DEATH RATE IN EACH DISTRICT DURING EACH QUARTER OF THE YEAR, also the Total Number of Deaths and the Death Rate in the No. 7.—TABLE SHEWING THE TOTAL NUMBER OF DEATHS AND City during the year 1898.

	1sr QU	1sr QUARTER.	2ND QU	2ND QUARTER.	SRD QU.	SRD QUARTER.	4TH QU.	4TH QUARTER.		
DISTRICTS.	No. of Deaths.	Death Rate per 1000 per annum	Death Rate Total No. per 1000 of Deaths,	Death Rate per 1000.						
-		10.4	100	2	201		146	16.6	122	18.0
Drypool	78	22.5	49	14.0	88	25.1	47	13.4	262	18.7
East Sculcoates	69	18.4	77	20.2	100	9.97	75	20.0	321	21.4
West Sculcoates	204	17.7	159	13.8	211	18.3	152	13.5	726	15.7
Humber	203	8.07	165	16.9	219	22.4	199	20.4	286	20.1
Myton	228	19.4	188	16.0	284	24.1	243	50.6	943	20.0
Newington	115	0.02	89	15.4	128	22.2	92	16.0	424	18.4
Newland	28	14.0	53	23.0	21	10.5	22	11.0	100	12.5
Stoneferry	:	:	1	:	_	::	00	:	11	10.6
Marfleet	က	:	1	:	1	:	C7	:	1	
									//	
City total	1046	18:1	890	15.4	1224	21.2	186	17.0	4141	18.0

No. 8.—BIRTH RATE, DEATH RATE, AND ANALYSIS OF THE ZYMOTIC DEATH RATE IN TWENTY OF THE LARGEST TOWNS FOR THE YEAR ENDING DEC. 31sr, 1898.

	to IS.	Uncer- tified causes of death	9.0	3.4	8.0	5.0	7.0	0.7	2.4	8.0	1.2	1.4	10.1	2.4	1.0	2.0	0.1	0.7	00	1
	Percentage to total deaths.	Deaths in Public Institu- tions.	29.0	23.2	20.0	17.6	- 0	18.0	12.3	15.3	12.3	14.5	16.4	12.9	16.5	11.9	-	00	2.6	17.1
	Perc	Inquest cases.	0-6	6.9	2.3	0.0			্য			7.7		6.4	6.9	2.9	5.5	2.0	2.9	8.1
	Rate of ty per lving.	Aged 60 years and up- wards.	8-69	0.88	33	6.02	73.1	4.09	59.3	67.4	74.3	6.04	79.7	64.6	60.4	57.3	77.8	71.8	78.8	63.5
	Annual Rate of Mortality per 1000 living.	Aged 1 to 60 years.	10.5	14.1	12.3	10.4	10.4	0.01	37.00	8.9	2.6	8.8	12.5	8.5	9.8	6.2	6.6	12.5	9-6	6.1
	Deaths	under 1 year to 1000 Births.	167	184	197	191	182	791 164	170	178	185	182	212	191	156	158	175	202	206	150
		Vio- lence.	82.0	1.05	22.0	0.72	0.63	0.55	0.71	0.65	0.22	0.40	29.0	99.0	0.52	0.47	0.41	94-0	89.0	0.44
		Diarr- hea.	26-0	1.54	1.84	1.36		1.10	86.0	1.20	1.05	1.85	2.16	1.58	98.0	0.84	92.0	1.86		1.14
		Fevers	0-13	0.56	0.23	0.22	0.55	0.40	0.25	0.24	0.21	0.50	0.87	0.14	0.23	0.10	0.15	0.48	0.24	60-0
LIVING.	mo	Whoop- ing Cough.	0.48	0.55	0.35	0.49	6.0	98.0	0.45	0.25	0.29	0.30	09-0	60-0	0.23	0.24	0.44	0.47	0.04	0.28
	Deaths from	Diph- theria.	0.39	0.53	0.10	0.56	10.0	0.20	0.63	0.10	20.0	20.0	0.15	0.30	0.30	0.73	20.0	90.0	0.28	0.14
1000	De	Scarlet Fever.	0.13	0.23	0.12	60.0	0.56	0.04	80.0	0.14	0.05	0.12	0.29	0.21	0.17	0.02	0.16	0.25	0.13	20.0
PER		Measles.	89-0	0.44	0.50	0.36	0.46	0.97	0.35	0.44	0.45	0.40	0.46	1.03	0.37	0.28	0.57	0.59	0.38	0.27
RATE		Small Pox.	0.00	0.00	1	18	0.00		1	1	1	0.01	1	1	1	1	1	0.01	1	1
ANNUAL		Zymo- tic Discases. Total.	2.78	3.55	3.11	2.78	21.5	2.69	2.68	2.87	2.12	2.99	4.03	3.35	2.16	2.24	2.15	8.69	2.57	1.99
AND	ling	31st Dec., 1896.	18.7	24.0	21.9	20.0	19.2	20.2	15.4	17.7	17.6	18.4	22.7	16.9	16.3	14.8	9.21	22.6	18.4	13.9
	Total Deaths 52 or 53 Weeks ending	18t Jan., 1898	18.2	24.4	23.1	21.6	19-9	17.2	15.7	18.8	17.4	18.6	23.9	17.7	16.2	14.9	19.5	19.7	19.5	13.1
	Total Deaths 53 Weeks en	2nd Jan., 1897.	18.6	25.4	22.6	20.8	20.00	6.91	16.1	17.5	16.5	18.9	22.6	16.7	9.91	16.8	20.3	19.8	17.9	14.2
	52 or	2sth Dec., 1896.	19-9	28.8	25.2	20.9	20.2	18.1	17.9	19.0	19.9	20.8	25.6	17.2	17.8	18.2	22.0	21.8	24.3	14.5
	Births	un 52 weeks ending 81st Dec. 1898.	29.5	35.2	82.7	34.0	27.5	28.6	9.08	58-9	24.0	33.4	24.7	9.68	26.7	31.1	25.3	35.4	27.1	25.4
		r opmæreen.	4,504.766	633,645	589,079	510,343	416,618	816,900	286,654	286,187	233,737	229.887	215,702	208,662	186,618	177,770	148,288	143,849	183,228	124,421
	CITIES	BOROUGHS.	London	Liverpool	Manchester	Birmingham	Leeds	Bristol	West Ham	Nottingham	Bradford	Hull	Salford	Leicester	Portsmouth	Cardiff	Oldham	Sunderland	Blackburn	Croydon

Note.—In this Table when no deaths occurred, - is inserted.

No. 9.—DEATH-RATE from ALL CAUSES from the PRINCIPAL ZYMOTIC DISEASES, and from INFANTILE MORTALITY, in the TWENTY GREAT TOWNS, in the Ten Years, 1888-97 and in 1898.

1 m				_	-	-	_		_		-		_	-	_				-	-	_
Deaths er one year 000 Births	1898	167	184	197	191	182	195	164	170	178	185	182	190	212	191	156	158	175	202	206	150
Deaths under one year to 1000 Births	10 years, 1888-97	155	189	185	00	178	180	144	154	174	171	173	167	198	199	150	160	178	169	201	128
	1898	26-0	1.54	1.84	1.36	1.22	1.89	1.10	86.0	1.20	1.05	1.85	1.10	2.16	1.58	98.0	0.84	94.0	1.86	99.1	1.14
Diarrhosa	10 years, 1888-97	29.0	1.17	1.10	1.11	1.10	1.21	0.20	92.0	86.0	0.87			1.40	1.49	0.85	0.82	89.0	1.12	1.23	0.47
	1898	0.13	0.56	0.23	0.55	0.22	0.40	80.0	10	0.24	0.21	0.25]		0.37	0.14	0.23	0.10	0.15	84.0	0.24	60-0
Fever.	10 years, 1888-97	0.15	10	0.26	91.0	0.22	.28	0.12)-22	0.29		0.240			0-50	0.23	0.17	91-0	0.49	0.27	0.11
ng- h.	1898	0.48		.35	67.	986-(.63	0.36	0.42	0.25					60-0	0.23	0.24	0.44	0.47	0.04	0.58
Whooping- Cough.	10 years 888-97	99.).62	9.61	.55	0.43	0.51	0.45	0.55	0.43)-43 (0.370		9.42	9-39	0.33)-47 (0.51	0.46	0.50	0.39
ria.	1898	0.39	0.23	01.0	95.)·54 (0.26	0.14	0.63	01.0	0.07	0.00		0.15	08.	.30	.73	20.0	90.0	0.23)-14 (
Diphtheria	10 years, 1888-97	0.48	0.17	0.26	0.21	0.11	0.16	0.18	0.48	80.0	0.07	0.120	0.50	0.41	0.15	0.17	0-31	0.16	80.0	0.02	0.59
	1898 y	0.13	0.23).12	60.	0.29	0.16	0.04	80.	0.14	90	0.120		-29	0.21	.17	0.05	0.16	0.22 (0.12	0.02
Scarlet Fever.	10 years, 1888-97	.23	0 64-	.85	-23 0	0.20	98.	10	0.54	0.19	0.24 0	1	*	0.47 0	0.19 0	0.00	0.21 0	0.26	0.51	84	0.02
	1898 yr	0.68	0.44 0	000.	0.36	0.46 0	0.49 0	0.97	0.32 0	0.44 0	0.45 0			-46 0	-03 0	.87	00	22	0 69	-98	27 0
Measles.	10 years, 1 1888 97	.62	0 02.	08.	.51	99	.55	0 97-	0.61 0	0.41 0		0.470	0.20	0-66-0	0.41 1	0.46 0	0.44 0	-71 0-	0.58 0	0 26-0	98.
ЭХ.	1898 ye	0.00	0.00-0	0	0	000.0	0	0	0	0	0	0	0.01	0	0	0	0	0	0 10-	0	0
Small-Pox	10 years, 1888-97	0.01	0.01	-05	-020-	0.01)-14	0.03	0.00	0.01	0.07	0.03	0.00	0.01	0.01	0.00	0.01	0.10	0.01	0.05	- 00.0
	1898 ye	18.7	24.0	0 6-1	0	19.2 0	20.2		15.4 0	<u>-</u>	0 9.21	18.40.	21.4 0	1	16.9	16.3	14.8	0 9.21	22.6 0.	18.4 0.	3.9 0.
All Causes.		1.7		.8 21	-7 20-	8.16	.4 2(-		8.8	19.5 17	.818		.5 22.	-	7		_	1.		_
IA	10 years, 1888-97	19	25.5	24.8	20	: 3	21	18.5	17.4	18.8	19	19.8	20.6	24.5	18.4	17	18.4	21.8	21	22.6	14.4
CITIES AND	Вовоисня.	London	Liverpool		d	Leeds	Sheffield	Bristol	West Ham .	-	Bradford	Hull	Newcastle	Salford	Leicester	ıth	Cardiff	Oldham	Sunderland	Blackburn	Croydon
		-	-	-	-	-	-	-		-	-	-	_	-	-	-	-			-	-

NOTE.—In this table 0.00 indicates that the deaths were too few to give a rate of 0.005; when no death occurred — is inserted.

No. 10.—Returns made by the Vaccination Officers of the Hull and Sculcoates Unions respecting the VACCINATION of CHILDREN whose births were Registered during the year 1897.

Small Pox.

No death has been recorded from Small Pox during the year 1898. The average death-rate from Small Pox for the thirty-three great towns was 0.00 per 1000 per annum. The average number of deaths from Small Pox in the City during the past twenty years was 4 per annum.

During the year, four cases of Small Pox have been notified, and were admitted to Hospital (two upon the certificates of the Medical Officer of Health); of this number 3 were vaccinated and 1 doubtful.

The following table shews the incidence of the disease at different age periods amongst the three classes of patients treated in Hospital:—

	Vacc	cinated.	Unvac	cinated.	Dot	btful.
Ages.	Cases-	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Under 1 year	1					
Between 1 and 5 years						
,, 5 and 15 ,,						
" 15 and 25 "	1					
" 25 and 45 "	1				1	
,, 45 and 65 ,,						
At 65 years and upwards						
Totals	3	0	0	0	1	0

Scarlatina.

Twenty-seven deaths have been reported from Scarlatina during the year, being a mortality at the rate of 0.11 per 1000 per annum of the estimated population.

The average death-rate from Scarlatina for the thirtythree great towns was 0.14 per 1000 per annum. The deaths from Scarlatina were distributed over the four quarters of the year as follows, namely:—First quarter, 8; second quarter, 12; third quarter, 2; fourth quarter, 5, respectively. The average number of deaths from Scarlatina in he City during the past twenty years was 86 per annum.

Measles.

Measles accounted for 79 deaths in 1898, as against 22 deaths in 1897 and 256 in 1896. The death-rate from Measles was equal to 0.34 per 1000 per annum of the estimated population. The average death-rate from Measles for the thirty-three great towns was 0.56 per annum. The deaths from Measles were distributed over the four quarters of the year as follows, namely:—First quarter, 38; second quarter, 30; third quarter, 5; fourth quarter, 6, respectively. The average number of deaths from Measles in the City during the past twenty years was 84 per annum.

Diphtheria.

There have been 10 deaths from Diphtheria, as against 19 in 1897 and 39 in 1896. The death-rate was equal to 0.04 per 1000 per annum. The average mortality from Diphtheria for the thirty-three great towns was 0.31 per annum. The deaths from Diphtheria were distributed over the four quarters of the year as follows, namely:—First quarter, 4; second quarter, 2; third quarter, 2; fourth quarter, 2. The average number of deaths from Diphtheria in the City during the past twenty years was 14 per annum.

Whooping Cough.

Whooping Cough occasioned 67 deaths, as against 57 in 1897 and 106 in 1896. The death-rate was equal to 0.29 per 1000 per annum. The average mortality from Whooping Cough for the thirty-three great towns was 0.42 per annum. The deaths from Whooping Cough were distributed over the four quarters of the year as follows, namely:—First quarter, 23; second quarter, 22; third quarter, 14; fourth quarter, 8, respectively. The average number of deaths from Whooping Cough in the City during the past twenty years was 78 per annum.

Fever.

This term embraces the three forms—Typhus, Typhoid, and Simple Continued Fever, and caused 57 deaths, being at the rate of 0.24 per 1000 of the estimated population. The average mortality from Fever for the thirty-three great towns was 0.20 per annum. The deaths were distributed over the four quarters of the year as follows, namely:—First quarter, 8; second quarter, 3; third quarter, 14; fourth quarter, 32, respectively. The average number of deaths from Fever in the City during the past twenty years was 49 per annum.

The advantages of notification of cases enabled us to take the usual sanitary precautions for the isolation of cases without proper accommodation, the daily supply of pails for the collection, disinfection, and disposal by cremation of the dejecta of Typhoid Fever patients treated at home, and the remedying of sanitary defects.

No. 12.—TABLE shewing the number of DEATHS from TYPHOID FEVER, with the Age, Sex and District in which they occurred, from the 1st January to the 31st December, 1898, inclusive.

	0 tc	0.1.	0 to 1. 1 to 5.	5.	5 to	15.	15 to	25.	25 to	.09	60 to	80.	\$ 08	dn.			
DISTRICTS.	M.	臣	M. F. M.	표	M.	E	M.	124	M.	E	M.	Fi	M.	压	Ħ.	Ξi.	TOTAL.
Drypool	:	:	F	1	61	-	50	П	50	2	67	:	:	:	15	4	19
Sutton	:	:	:	Н	:	:	:	:	П	C7	:	:	:	:	-	00	4
E. Sculcoates	:	:	: "	:	:	:	П		:	7	:	:	:	:	Н 6	C1 C	אל פני
W. Sculcoates	-	:	7	:	27 -	:	: 00	7 -	: 67	:-	: :	: :	: :	: :	9	4 C1	∘ ∞
Myton	: :	: :	: -	: :		. –	-	-	101	П	:	1	:	:	5	4	6
Newington	:	:	:	1	:	C1	ī	7	:	C7	:	:	П	:	C7 1	9	ж •
Newland	:	:	:	:	:	:	1	:	:	:	:	:	:	:	-	:	_
Stoneferry	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	
Marfleet	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
					1	Ì	1	1	1	1		Ì	1			-	
TOTALS	:	:	69	Ç1	9	4	12		10	6	62	П	П	:	34	23	57

Diarrhœa.

Diarrhœa occasioned 365 deaths, a mortality of 1.58 per 1000 per annum of the estimated population. The average mortality from Diarrhœa for the thirty-three great towns was 1.22 per annum. The deaths from Diarrhœa were distributed over the four quarters of the year as follows, namely:—First quarter, 3; second quarter, 5; third quarter, 301; fourth quarter, 56, respectively. The average number of deaths from Diarrhœa in the City during the past twenty years was 2.33 per annum. The highest mortality from Diarrhœa in the thirty-three great towns was 1.84 in Manchester, 1.85 in Hull, 1.86 in Sunderland, 1.89 in Sheffield, 1.95 in Wolverhampton and 2.05 in Preston.

Infantile Diarrhea.

Of 365 deaths from Diarrhæa, 325 were children, aged one year and under, and of this latter number, 259 died in the autumnal quarter, 235 of which were bottle-fed or had received a mixed diet, and 24 only had been breast-fed.

Investigations as set forth in the following table (No. 13) shew, as I have before stated, that the feeding of infants upon improper food is one of the chief causes of the increased autumnal Diarrhœal mortality.

Bills containing precautions against Diarrhœa, especially calling attention to the feeding of infants, have, as usual, been freely distributed.

SPECIAL REPORT

BY THE MEDICAL OFFICER OF HEALTH, ON THE INCREASED
DEATH RATE AND ITS CAUSE.

The following Report from the Medical Officer of Health, namely:—

The increased death rate in this City during the third quarter has been due to Autumnal Diarrhœa.

The highest mortality in any given period was during the weeks ending September 24th and October 1st, the death rate

of the various Districts varying from 0.8 to 1.9; the greatest mortality for the three months being in the Districts of East Sculcoates, Sutton and Myton, the death rates being 1.9, 1.7 and 1.6 respectively.

Diarrhœa has been more fatal amongst children between the ages of three and eight months, and the fatality has been greater amongst males than females. (See Table A.)

The duration of illness has been from 5 to 8 days.

During the 1st and 2nd quarter of the year the general and zymotic death rates of children under one year to 1000 births was below the average of the 33 large towns, as shown in Table D. During the third quarter, however, the general and zymotic death rate of children under one year was above the average.

Diarrhœa has been generally distributed throughout the City, and most fatal in our artizan population.

As will be seen in Table A, out of the 301 deaths 274 have been bottle fed, or have received a mixed diet, and it is beyond doubt that the artificial feeding of infants, together with pollution of soil, either by vegetable or animal matter, is an important factor in increasing the prevalence and death rate from Diarrheea.

In support of this, it is to be noted that amongst the Irish population the mortality has been less than in other portions of the community, and investigation has proved that it is attributable to children being almost invariably suckled.

I would further direct your attention to the question of house sanitary conveniences. In Table A you will notice that, of the 301 houses in which death has occurred, 288 were provided with privies, whilst only 13 were provided with water closets.

It has been generally observed that Infantile Diarrhoea is more prevalent in our crowded cities and densely-populated areas, the density of buildings upon an area, i.e., crowded courts, obstructive buildings, overcrowding, and inefficient ventilation of rooms, together with foul air from cesspools, privy middens, filthy accumulations of refuse, and want of cleanliness, is usually associated with the prevalence of Diarrhœa and mortality therefrom.

Meteorological conditions have also an important bearing upon the prevalence of Diarrhœa, and have for some considerable time been discovered to be associated with Diarrhœal epidemics. The temperature of the soil is an important factor in its causation.

During the period of the highest mortality in this City, the earth thermometer registered 59.8.

Infantile Diarrhœa occurs more or less every year, and the intensity of the epidemic varies from year to year, according to the changes in the temperature and rainfall.

The meteorological conditions of the recent Autumnal quarter has been unusual, and Diarrhoea has been universally prevalent. The temperature of July, generally speaking, was below the average, whilst in August and September the temperature exceeded the average considerably. In September the weather was remarkable for its small rainfall, unusual amount of sunshine, and an exceedingly hot period from the 2nd to the 17th.

On the whole, the temperature of the air during the quarter was 3.0° above the average. The amount of rainfall for the three months was below the average for 83 years, and the drought was greatest in the South-Eastern District of England.

Precautions Adopted.

The precautions that have been adopted in this City are as follows, namely:—Printed precautions have been distributed throughout the City; early notification of all fatal cases of Diarrhœa have been received from the Registrars of Births and Deaths; immediate investigation has been made of each case; an inspection of the sanitary arrangements of each house; the cleaning and limewashing of courts, and the flushing of the subsidiary drains where necessary; the bi-weekly collection of dry dust in our crowded neighbourhoods, the distribution

of printed precautions against undue accumulations of refuse and for the free distribution of disinfectants.

Recommendations.

The care of parents in the proper feeding of infants; the substitution of the water carriage system for the privy; the regular periodical removal and cremation of all accumulations of refuse from waste lands or crowded courts; the prevention of overcrowding; remedying of sanitary defects; the continuance of the closing of all insanitary property; and the opening out of areas under the provision of the Working Classes Act, would, in my opinion, tend to lessen the recurring prevalence and mortality due to Diarrhœa.

I append tables, shewing the prevalence of Diarrhœa in this City during the third Quarter, and the meteorological conditions; and also deaths from Diarrhœa during the years 1883 to 1898 inclusive.

J. Wright Mason, M.B., D.P.H., &c.

Medical Officer of Health.

Town Hall, Hull, November, 1898.

TABLE A .- SHEWING THE NUMBER OF DEATHS FROM DIARRHERA DURING THE THIRD QUARTER OF THE YEAR 1898, TOGETHER WITH THE AGE PERIODS, NATURE OF FOOD, &C.

-				_	_	_	_	_	_	_	_		
Sanitary Conveniences.	·s	Privie	46	25	28	37	32	72	35	8	5	:	288
San	3.).W		:	П	က	3	5	П	::	:	:	13
n ath		9	-	Г	1	:	:	C2	:	:	:	:	5
e De	red.	5	-	2	1	C2	3	9	:	c7	-	:	18
No. of Rooms in Houses where Death	occurred	4	28	11	20	24	12	35	24	9	C2	:	173
To. or	pas	೧೦	-	9	C7	50	50	13	5	-	C1	:	40
H		22	13	4	67	6	15	16	9	:	:	:	65
od.		Bottle I Mixed	42	25	27	37	33	69	30	-	4	:	274
Food.	Fed.	Breast	4	:	67	က	C 7	00	9	П	-	:	27
	al nur		46	25	53	40	35	77	36	00	5	:	301
Sex.	les.	Eems	21	12	13	15	15	38	50	4	က	:	141
S	.se	Mal	25	13	16	25	20	39	16	4	C7	:	160
	80	and	:	:	:	:	C3	:	:	:	:	:	62
	09	to 80	Н	Н	:	П	:	က	Н	:	:	:	7
	25	to 60	:	:	:	:	:	:	П	:	:	:	П
Ages.	15	to 25	:	:	:	:	:	:	:	:	:	:	:
A	70	to 15		:	:	:	:	:	:	:	:	:	:
	H	5 5	4	4	4	:	4	13	Н	Н	Н	:	32
	0	10	14	20	25	39	53	19	33	7	4	:	259
.noi	asluc	$_{ m L^{ol}}$	35548	14531	15127	46041	19068	46859	23047	8345	1035	293	229887
	District.		Drypool	Sutton	East Sculcoates	West Sculcoates.	Humber	Myton	Newington	Newland	Stoneferry	Marfieet	Totals

TABLE B.—Shewing Deaths from all Causes, Birth Rate, Death Rate, Zymotic and Diarrhca DEATH RATES, AND METEOROLOGICAL REPORT, FROM JULY 9TH TO OCTOBER 1ST, 1898.

-								
	Hainfall.	0.56	0.11	2.00	0.47	1.27	0.04	0.55
neters	қаібіти Т	73.8	78	76.4	85.1	2.22	80.1	78
Hygrometers.	Wet Bulb.	55.8	58.2	57.2	59.4	56.9	8.19	55
H	Dry Bulb.	8.09	65.5	61.5	65.5	2.09	65.3	55.5
mo-	muminiM	48.5	20	50.4	52.3	50.6	53.8	41.9
Thermo meter.	mumixsM	65.9	69.2	68.5	69.5	68.5	73.8	62
ter.	Ватоте	30.08	30.105	30.047	30.068	30.096	30.156	30.075
ymotic	Death Rate the Seven S Disease	1.1	2.0	1.3	5.4	0.6	9.4	10.9
	Death Rat usO Ils	14.4	11.5	14.5	18.3	27.4	29.8	30.0
.ete.	H drift	34.7	31.4	30.8	34.1	38.6	33.5	32.5
otal aths.	Death Rate.	0.3	0.3	1.5	4.6	8.5	8.8	8.6
Tc	Number.	69	60	11	41	92	78	87
23	08 08	:	:	:	:	:	:	C1
$rb\alpha$	60 to 80	:	:	:	П	П	3	C1
Diar	25 to 60	:	:	:	:	:	:	П
m]	15 to 25	:	:	:	:	:	:	:
s fro	5 to 15	:	:	:	:	:	:	C1
Deaths from Diarrhœa.	to 5	П	:	C2	Н	11	œ	9
Ď	100	C2	ಣ	0	39		67	74
	Fortnight.	July 9th	23rd	Aug. 6th	20th 39	Sept. 3rd 64	17th 67	Oct. 1st 74
	Fort	July	:	Aug.	,,,	Sept.		Oct.

No. 13.— TABLE C.— Shewing TOTAL NUMBER of DEATHS from DIARRHŒA, also the number of deaths of Children in the Autumnal quarters, during the years 1883 to 1898 inclusive.

Year.	Total Number of Deaths.	Number of Deaths aged one year and under.	No. of Deaths during Autumnal quarter, aged one year and under.	Bottle Fed and Mixed Diet.	Breast Fed.
1883	119	90	73	58	15
1884	331	271	222	171	51
1885	59	43	23	18	5
1886	262	193	155	141	14
1887	214	170	154	124	30
1888	86	59	39	33	6
1889	213	157	131	109	22
1890	183	140	89	72	17
1891	122	100	81	65	16
1892	176	131	106	98	8
1893	474	373	343	300	43
1894	72	59	32	26	6
1895	524	399	343	299	44
1896	191	154	133	108	25
1897	451	368	338	290	48
1898	365	325	259	235	24
Totals.	3842	3032	2521	2147	374

TABLE D.—Shewing the Average General and Zymotic Death Rate per 1000 Persons Living and Deaths of Children under One Year, to 1000 Births, during the 1st, 2nd and 3rd Quarters of the Year, for the 33 Large Towns as Compared with this City.

ER.	Deaths of Children Under One Year of Age to 1000 Births.	275	310
3RD QUARTER.	Death Rate, Death Rate,	4.94	6.48
3B		20.3	21.7
ER.	Deaths of Children under One Year of Age to 1000 Births.	133	115
2ND QUARTER.	Death Rate. Death Rate.	1.88	1.52
2N	Death Rate.	17.1	15.6
	Deaths of Children under One Year of Age to 1000 Births.	145	140
	Death Rate, Death Rate.	2:38	1.72
1st Quarter.	Death Rate.	500.6	18.9
1sr Qu	TOWN.	33 Large Towns	Hall

TABULATED STATEMENT SHEWING THE ESTIMATED POPULATION, VITAL STATISTICS, SANITARY ARRANGEMENTS OF HOUSES, AND THE PRECAUTIONS TAKEN FOR THE PREVENTION OF DISEASES IN THE REGISTRATION SUB. DISTRICTS OF THE CITY AND COUNTY OF KINGSTON UPON HULL, FOR THE YEAR 1898.

	a			Notifications	921	309	345	718	503	739	443	310	91	60
	Montananad	DISEASE.	by rity.	Houses Disinfected Local Autho	249	909	142	292	155	223	103	162	12	-
	Pag			Removals to Hospitals.	79	10	15	64	55	59	18	21	:	:
-				Other Causes	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	:	:
-			Ver.	Puerperal Fe	0.02	:	:	:	:	:	:	:	:	-
-				Total.	1.5	2.5	2.5	6.0	Ξ	1.8	1.9	1.5	0.9	-
-	SES.		DIARRHGEA.	Bottle Fed and Mixed Diet.	1.4	2.5	2.1	8.0	1:1	1.7	9.1	1:1	4.0	:
-	DISEASES.	ric.	п	Breast Fed.	0.1	:	0-1	90-0	0.02	0.1	0.3	0-1	0.1	:
-		ZYMOTIC.		Small Pox.	1	:	:	:	:	-	:	:	- !	:
-	SPECIAL		-38	Enteric Fevo	2.0	0.5	0.1	90-0	0-1	-0	0.5	1	:	
-	OF S			Whooping Cough.	80-0	1.0	0.0	0.3	0.1	0.3	7.0	:	:	-
-	RATE (Croup and Diphtheria.	0.1	:	90-0	90-0	0.02	0.1	0.1	0.1	:	1
1				Scarlatina.	0.4	0.07	90.0	0.03	:	0.1	0.1	:	1.0	:
-	DEATH			Measles.	0.5	0.3	0.5	1.0	0.3	0.5	0.3	0.1	:	-
1	I	.,	'8	Other Cause	10.3	12.1	11.3	9.8	13.7	9.01	10.7	00.50	3.0	28.0
-		Non-Zymotic.		Pnuemonia.	9.0	1.6	9.0	0.0	6.0	1.0	1.0	9.0	:	1
-		(Z-vo)		Phthisis.	8.0	9.0	9.0	1.4	1.4	1:1	1:1	1.0	!	
-		4		Bronchitls.	Ξ	2.0	3.0	1.4	1.7	1.9	1.3	1:1	1.0	-
-			VTE.	Total.	16.2	19-9	19-4	15.2	20.0	17.8	17.8	12.3	10.0	21.0
-			Ввати Вате.	Symotic.	3.5	3.5	5.5	1.8	1.9	3.0	3.4	9.1	0.9	-
-			DEA	Non- Zymotic.	13.0	16.4	9.91	13.3	18.0	14.7	14.3	10-7	4.0	21.0
	e e	ri S		Birth Rate.	38.8	39-7	33.8	24.9	22.2	35.8	38.5	31.5	16.0	24.0
1		STATISTICS.	J	Percentage o	96.2	99-1	96-2	88-2	71.4	91.8	80.3	71.6	94.1	97.1
-	-	SIA	lo	Percentage W.C.'s.	4:1	5.1	8.8	13.5	30-9	9-01	22.6	49.5	80	7.0
-		VIEST	o. of House.	A verage No	4	4	60	4	4	00	00	60	4	4
-		*	189	No. of Hous	8642	3248	3910	10156	19461	12196	6590	2349	239	71
-			suc	No. of Perso per acre.	20	48	54	96	96	7.7	16	4	0	0
-				Estimated Population.	35548	14531	15127	46041	39061	46859	2:1057	8345	1035	293
THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NA			DISTRICTS.		Drypool	Sutton	E. Sculcoates.	W. Sculcoates	Humber	Myton	Newington	Newland	Stoneferry	Marfleet

No. 14.—Table shewing the Population and Deaths from Diarrhoea during the Third Quarters of the years 1872 to 1898, both inclusive; also the total Rainfall in inches and Temperature for the same period.

SEPTEMBER.

AUGUST.

1	
Total IlaluiaH	2.18 2.18 3.80 3.80 3.12 3.12 3.12 4.46 1.09 1.09 1.09 1.09 1.34 1.38 1.38 1.38 1.38 1.38 1.38 1.38 1.38
Date.	2,22 11 6 6 7 7 11 15 17 17 17 17 18 8,10 10 8,10 10 2,9 11 11 2,9 11 12 11 12 11 12 11 12 13 14 15 17 17 17 17 17 17 17 17 17 17 17 17 17
Highest. Reading.	0.00
Mean of mumixeM	62.8 64.4 65.0 61.2 65.0 65.0 65.0 65.0 66.2 66.2 66.2 66.2 66.3 66.3 66.3 66.3
Total Total .	2.24 3.10 2.25 4.06 1.50 4.90 6.54 1.87 6.54 1.87 6.54 1.83 1.83 1.83 1.83 1.83 1.83 1.87 6.54 1.87 6.54 1.87 6.54 1.87 6.54 1.87 6.54 1.87 6.54 1.87 6.54 1.87 6.54 1.87 6.54 1.87 6.54 1.87 6.54 1.87 6.54 1.87 6.54 1.87 6.54 1.87 6.54 1.87 6.54 1.87 6.54 1.87 6.54 1.87 6.54 1.87
Date.	26 8 19 16 14 14 5 2,7,8,12,18 20 10 10 11 13 24 16 30 6 6 9 4,5 2,19 2,19 2,19 2,19 2,19 2,19 2,19 18 18 2,19 18 18 18 18 18 18 18 19 10 10 10 10 10 10 10 10 10 10
Highest Reading.	777 888 88 4 47 47 47 47 47 47 47 47 47 47 47 47 4
Mean of Maximum.	65.0 69.7 69.7 69.7 69.7 69.1 66.1 66.1 66.2 69.1 66.2 69.2 69.3 69.3 69.3 69.3 69.4 69.7 69.7 69.7 69.7 69.7 69.7 69.7 69.7
IstoT IlslaisH	4.84 8.52 1.73 8.52 1.73 8.96 8.96 8.51 8.51 8.51 8.51 8.52 1.98 8.15 8.15 8.15 8.15 1.98 8.15 1.18 1.18 1.57 1.57 1.57 1.57 1.57 1.57 1.57 1.57
Date.	21,23 9 2 16 10,30,111 28,30 25,25 3,4 8 22,28 31 17 17 22,8 29 20 20 22,28 31 31 31 31 31 31 31 31 32 32 33 31 31 31 32 33 34 38 32 32 32 33 34 36 36 36 37 38 38 38 38 38 38 38 38 38 38 38 38 38
Highest Reading.	88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Mean of Maximum.	78.1 78.2 78.2 78.2 66.1 67.2 67.2 67.2 67.3 67.3 68.5 68.5 68.5 68.5 68.5 68.5 68.5 68.5
Deaths from Diarrhoas.	218 161 161 160 193 145 386 109 208 109 227 73 26 201 188 188 188 188 188 188 188 188 188 1
Population.	125,210 128,225 131,315 134,480 141,050 141,050 144,450 147,940 155,160 155,160 155,160 158,814 176,296 181,225 186,292 196,855 202,359 202,359 202,359 204,750 204,750 204,750 220,934 220,934 220,934 220,934 220,934
Years.	1872 1873 1874 1875 1875 1876 1877 1883 1883 1883 1883 1884 1885 1885 1885 1885 1889 1890 1891 1892 1893 1894 1895 1896 1896 1896

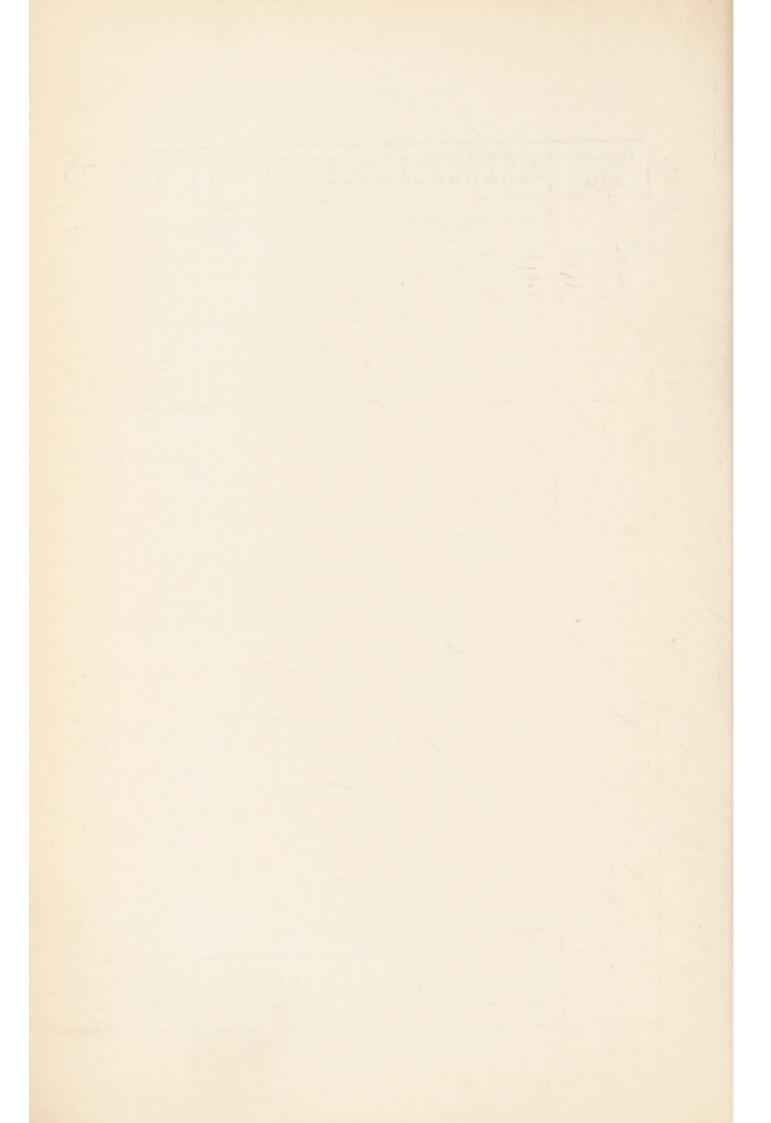


CHART shewing the number of DEATHS from DISEASES of the RESPIRATORY ORGANS, and CONSUMPTION, together with the DEATH RATE from all causes, and the TEMPERATURE and RAINFALL in fortnights, 1898.

Death Rate—
Respiratory Organs—
Consumption—

JAN FEB. MAR APRIL MAY JUNEJULY AUG. SEP. OCT. NOV. DEC. 53-0 55-0 56-0 55-0 48-8 58-0 54-0 68-0 61-0 63-0 64-0 70-0 71-0 75-0 74-0 77-0 81-0 75-0 85-0 85-0 66-0 65-0 61-0 55-0 58-0 56-0 42-6 41-6 42-8 41-5 37-3 40-8 38-9 47-5 44-8 48-6 47-4 52-4 56-0 45-0 59-6 59-3 60-9 59-4 63-8 53-3 51-9 52-9 47-7 44-1 44-0 42-1 EMPERATURE -MINIMUM 28-0 29-0 28-0 30-0 24-0 25-0 27-0 27-0 30-0 36-0 34-0 37-0 57-4 40-0 44-0 44-0 44-0 48-0 37-0 35-0 39-0 36-0 26-0 30-0 29-0 Rainfall in Inches 0-85 .. 0-69 0-43 0-53 0-25 0-95 2-04 0-84 0-99 0-53 0-98 0-75 0-56 0-11 2-00 0-47 1-27 0-04 0-22 0-30 2-83 0-56 1-61 0-86 0-21



Disease Map.

I append to my Report a Map of the City, shewing the distribution of deaths from Diarrhœa, Whooping Cough, Scarlatina, Typhoid Fever, Measles and Diphtheria.

Bacteriology.

During the year an arrangement has been entered into with the Council of the Yorkshire College, Leeds, for the conducting, by Professor Trevelyan, of all bacteriological investigations required, of such cases of Diphtheria and Typhoid Fever, which the City Medical Officer of Health and the Medical Practitioners of Hull may, through him, think necessary, and also for such examinations of samples of milk suspected of tubercle or other infection, water and other foods, submitted by your Medical Officer of Health for Bacteriological and Chemical research.

The cost of the Bacteriological researches is defrayed by the City Corporation, and they have proved to be of great benefit in the diagnosis of doubtful cases of Diphtheria and Typhoid Fever.

Hospitals.

Three hundred and ninety-five patients have been treated in the Hospitals. Of this number 321 have been admitted during the year 1898, as against 562 in 1897 and 507 in 1896. Twenty-nine per cent. of the notified cases of Small Pox, Scarlet Fever, and Typhoid Fever were treated in Hospital, as against 31 per cent. in 1897 and 28 per cent. in 1896.

The admissions were distributed over the four quarters of the year as follows, namely:—

First quarter, 100; second quarter, 74; third quarter, 42; fourth quarter, 105.

Of these 221 were suffering from Scarlatina, 86 from Typhoid Fever, 5 from Measles, 4 from Small Pox, 1 from Choleraic Diarrhœa, and 4 were admitted for Isolation.

Twenty deaths have occurred from Typhoid Fever, aged 73, 46, 36, 34, 30, 30, 29, 27, 24, 22, 22, 22, 19, 17, 16, 16, 15, 12, 12, and 12 years; duration of illness, 20, 2, 52, 6, 28, 20, 8, 2, 9, 14, 13, 7, 32, 10, 21, 3, 6, 30, 9, and 2 days respectively.

Ten deaths have occurred from Scarlatina, aged 11, 6, 6, 6, 5, 4, 4, 4, and 3 years; duration of illness, 14, 98, 18, 15, 11, 61, 34, 19, 2, and 8 days respectively.

The average daily number of patients in the Hospitals was 46 and the average stay of each patient was 43 days. The average cost of treatment of each patient was £10 11s. 10d.

The average cost per day per patient was 4s. 11d.

The percentage of deaths from all causes to the total admissions was equal to 9 per cent., as against 6 per cent. during the year 1897 and 4 per cent. during the year 1896.

During the year daily papers have been received from the Public Libraries, and many other kind friends have generously subscribed presents for the use of the patients, which have received your Committee's grateful acknowledgments. The following table shews the number of Cases Admitted into the Hospitals in age periods, and the diseases from which they were suffering:—

				A	GES.					
Diseases.	0 to 1	to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 up- wards.	TOTALS.
Small Pox Measles Scarlatina Typhoid Fever Isolation Chol. Diarr		1 1 62 1 	2 134 33 1	1 2 17 29 	1 6 16 	1 1 3 2 	 3 1 1	 1 	 1 	4 5 221 86 4 1
Totals		65	170	49	23	7	5	1	1	321

Extension of the Sanatorium.

The accommodation at the Sanatorium being insufficient, plans have been submitted by the City Engineer for alterations and additions to the Administrative Block. The work is now in progress, and when completed will enable your Authority to provide accommodation for the isolation of Diphtheria patients.

during the year 1898, with the Nature of the Diseases, the number of Deaths, and the Districts from which they were removed. No. 15.—TABLE shewing the Number of ADMISSIONS into the Hospitals of the Urban Sanitary Authority

	Tetal	221 86 1	321	10 20	30
	MAR-	11111	:	1111	:
	STONE-	11111	:_	1111	:
1	Newland	12:::	16	HILL	
The coordinate of	NEWINGTON NEWLAND	12	17	:::18	4
-	Мутом	48 11 :::	59	: : 21 00	5
1	Номвев	1048	52	: :0101	4
	West ES Sculcoates	62: 2	71	: : 60 61	5
	East	: : <u>4</u> 1	16	: 62	53
0.01	Surton		10	:::	1
וור דו מנומד	DRYPOOL SUTTON		80	: ::6	6
duling the year 1000, with the result of the Library,	DISEASES	Small Pox Measles Scarlatina Typhoid Fever Choleraic Diarrhœa Isolation	Totals	Deaths in Hospital— Small Pox Measles Scarlatina Typhoid Fever	TOTAL DEATHS
3					

No. 16.—The following TABLE gives the NUMBER OF ADMISSIONS INTO THE HOSPITALS of the Urban Sanitary Authority from 1879 to 1898.

700	_		_	_	_	_	-	_	_	_	_	_	_		
TOTALS	14	144	4178	88	C2	1	864	00	15	67	C2	12	27	59	6177
1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898	: 4	20	221	:	:	:	98	-	:	:	:	:	:	4	321
1897	: -		481	:	:	:	67	:	:	:	:	:	:	:	562
1896	4	62	400	c7	:	:	97	:	:	:	:	:	:	C7	507
1895	:4	:	494	12	:	:	98	:	П	:	:::	:	:	Н	019
1894	.: 5	212	291	10	:	:	98	:	:	:	:	-	:	1	444
1893	178	24	286	6	:	:	210	7	50	:	:	-	:	9	738
1892	201	12	192	13	:	:	36	:	_	:	C1	_	:	6	284
1891	: c.	13	77	11	:		55	:	:		:	_	:		168
1890	::6	4	114	П	:	:	33	:	:	:	:	00	:	12	204
1889	::9	31	198	4	62	:	55	:	:	_	:	:	:	17	314
1888	150	:	323	5	:	:	00	:	:	:	:	:	-	:	487
1887	:0	4	351	4	:	:	6	:	:	:	:	:	:	:	377
	:	: co	251	5	:	:	4	:	C3	:	:	:	:	:	265
1885	: 20	3 :	192	:	:	:	4	:	:	:	:	:	:	:	261
1884	::1	:::	14	Н		:	:	:	:	:	:	:	1	:	160
1883	::4	35	89	Н	:	:	1	:	:	:	:	:	:	:	124
1882	: 00	100	88	:	:	:	C2	:	:	:	:	:	:	:	185
1881	::	9 00	122	:	:	:	20	:	:	:	:	:	:	:	3 17 146 185 124 160 261
1880	:-	4 02	12	:	:	:	C7	:	:	:	:	:	:	:	17
1879 1880 1881 1882 1883 1884 1885	:	: :	3	:	:	:	:	:	:	:	:	:	:	:	1
DISEASES.	Cholera	Measles	Scarlatina	Diphtheria	Whooping Cough	Typhus Fever	Typhoid Fever	Chol. Diarrhoea	Diarrhoea	Croup	Continued Fever	Erysipelas	Dysentery	Isolation	Totals

Constitutional Diseases.

Phthisis caused 270 deaths, as against 285 in 1897 and 264 in 1896; the death-rate in 1898 being equal to 1.1 per 1000 per annum, as against 1.2 in 1897 and 1.1 in 1896.

Cancer contributed 170 deaths, being most fatal between the ages of 45 and 65.

Other constitutional diseases caused 231 deaths.

Developmental Diseases.

Under this heading 303 deaths have been recorded as against 313 in 1897, the principal causes of death being from Old Age, 212; Premature Birth, 91.

Diseases of the Nervous System.

Four hundred and two deaths have been recorded under this heading, as against 4.59 in 1897, and include 160 from Convulsions, and 154 from Apoplexy, Brain Paralysis, &c. The greater number of the former occurred in young children, aged 1 year and under.

Diseases of the Circulatory System.

These diseases caused 384 deaths, as against 304 in 1897. Three hundred and forty-three of the deaths were due to diseases of the heart.

Diseases of the Respiratory System.

These diseases (other than Consumption) caused 695 deaths, as against 597 in 1897, of which 410 were due to Bronchitis and 191 to Pneumonia.

Influenza.

During the year 54 deaths were certified to be due to Influenza.

The following Tabulated Statement shews Number of Deaths from Influenza, in fortnights, and the Districts in which they occurred, during the year, 1898.

Fortnight ending	Drypool	Sutton	East Sculcoates	West	Humber	Myton	Newington	Newland	Stoneferry	Marfleet	Totals
Jan. 8											
99		•••			***	***					
Feb. 5					***						
3.0				2				1			3
March 5			1	1		1	1				4
,, 19				2							
April 2					1						2
,, 16			1	1							2
,, 30					1						2
May 14			1								1
,, 28											
June 11											
25											
July 9					1						1
,, 23						1					1
Aug. 6											
,, 20											
Sept. 3					***						
,, 17							***				
Oct. 1							1				1
,, 15	1		710								1
,, 29											
Nov. 12					***						
,, 26											
Dec. 10											
,, 24							1				1
Total	1		3	6	3	2	3	1			19

TABULATED STATEMENT.

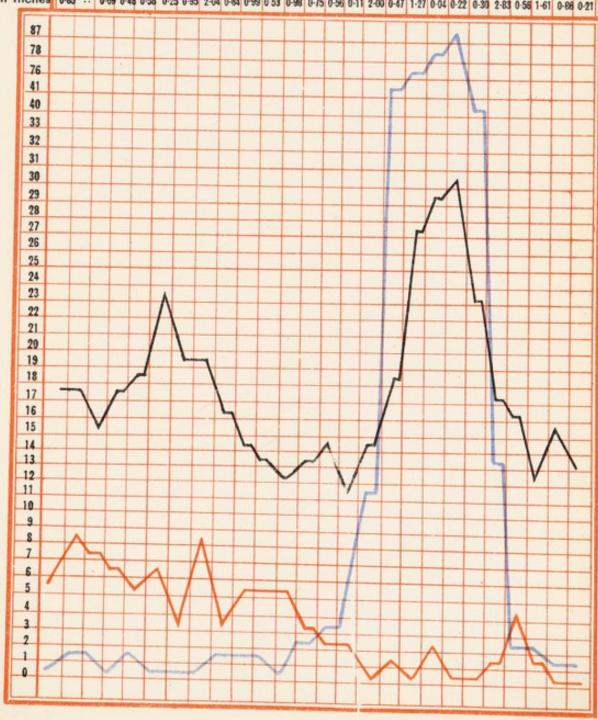
aths.	Total.	105	09	74	168	187	216	92	22	1	:	925
Total Deaths.	Females	65	34	30	81	86	84	44	=	:	:	423
Tota	Males.	52	26	44	87	101	132	48	Ξ	-	:	502
	.IntoT	95	57	89	156	181	208	22	20	-	:	871
su ·	Females	8	933	28	74	81	80	98	10	:	:	392
Organ	Males.	47	24	40	85	100	128	47	10	1	:	479
Diseases of the Respiratory Organs (Bronchitis, Pheumonia, Phthisis).	75 and upwards.	*	7	60	10	12	13	63	60	:	:	10
Respi	55 75	20	12	24	40	52	44	14	60	:	:	194
the]	55 55	34	15	122	45	09	21	18	63	:	:	237
es of	15 to 25	111	24	64	13	13	14	6	4	1	:	89
iseas	15 15	:	-	1	00	9	10	-	1	:	:	18
D	- 210	7	11	11	16	13	24	14	24	:	:	86
	-20	19	12	15	53	40	22	27	10	1	:	205
· l	Total.	6	00	00	9	00	9	4	-	:	:	100
the	Lemales	4	-	1	0.1	0.1	4	00	Н	:	:	18
ses of neun	Males.	10	33	64	4	1	63	-	:	:	:	17
Influenza accompanied by diseases of the Respiratory Organs (Bronchitis, Pneumonia)	75 and upwards.	:	1	:	64	:	:	:	:	:	:	60
ied b 3rone	150 150 150	44	-	:	:	C1	0.1	03	:	:	:	П
npan ns (I	55 55	10	1	00	03	1	00	C3	1	:	:	18
accor	15 25 25	:	:	:	:	;	-	:	:	:	:	-
enza	5 15 15	:	:	:	-	:	:	:	:	:	:	1
Influs	120	:	:	:	:	:	:	:	:	:	:	;
Be	-2-	:	:	:	1	:	:	:	:	:	:	1
	Total.	1	:	00	9	m	03	00	-	:	:	19
	Females	-	;	-	10	60	:	60	:	:	:	13
	Males.	:	:	64	1	:	03	:	-	:	:	9
ZA.	75 and upwards.	:	:	:	:	60	:	1	:	:	:	*
ENZ	55 75	:	:	6.3	*	:	1	1	1	:	:	6
INFLUENZA,	25 55 55	-	:	-	1	:	-	-	:	:	:	10
N	15 to 25	:	:	:	:	:	:	:	:	:	:	:
	5 to 15	:	:	:	:	:	:	:	:	:	:	:
	- 20	:	:	:	:	:	:	:	:	:	:	:
	- 20	:	:	:	-	:	:	:	:	:	:	-
	DISTRICT.	Drypool	Sutton	East Sculcoates	West Sculcoates	Humber	Myton	Newington	Newland	Stoneferry	Marfleet	Total

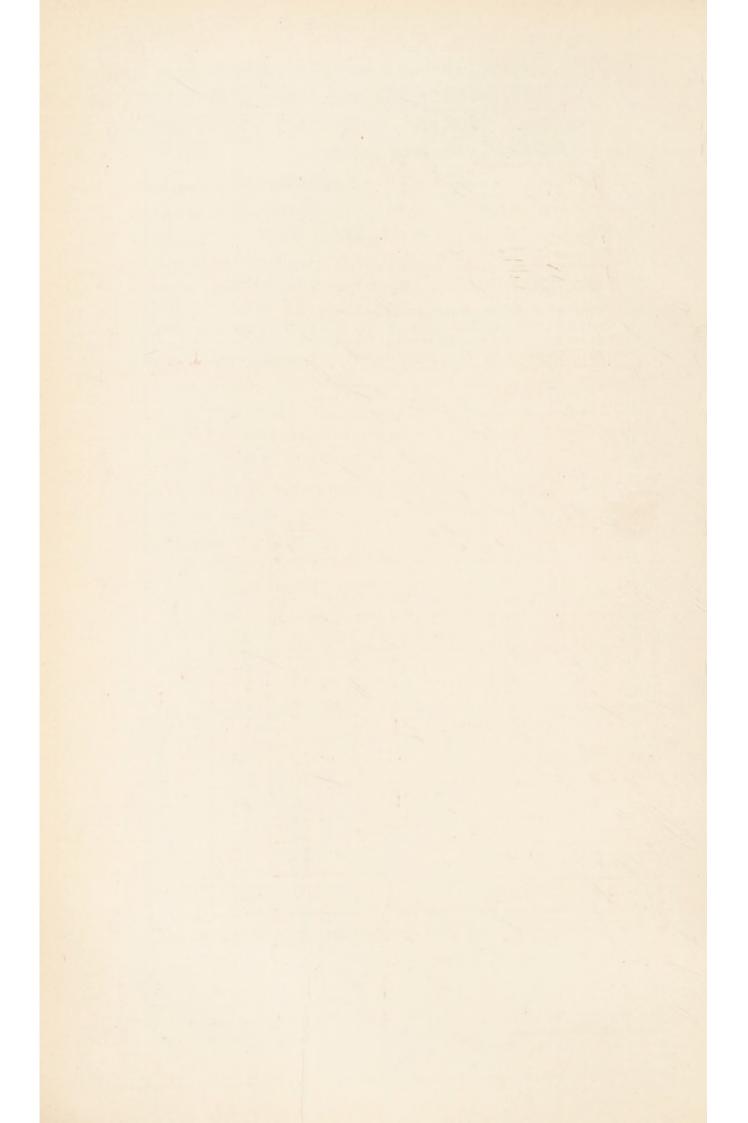
CHART shewing the number of DEATHS from prevailing ZYMOTIC DISEASES, and the DEATH RATE from all causes, together with the TEMPERATURE and RAINFALL in fortnights. 1898.

Death Rate—
Diarrhœa—
Measles—

TEMPERATURE (MAXIMUM MEAN MINIMUM Rainfall in Inches

	JA	NA	F	EB.	M	AR	A	PR	L	M	AY	JU	NE	JU	LY	AL	JG.	SE	P.	(OCT	г.	N	ov.	DE	C.
	53-0	55-0	56-0	55-0	48-8	58-0	54-0	68-0	61-0	63-0	64-0	70-0	71-0	75-0	74-0	77-0	81-0	75-0	85-0	85-0	66-0	65-0	61-0	55-0	58-0	56-0
١	28-0	29-0	28-0	30-0	24-0	25-0	38-9 27-0	27-0	30-0	36-0	34-0	34-0	56-0 37-0	45-0 57-4	59-6 40-0	59-3	60-9	59-4	63-8	53-3 37-0	51-9	52-9	47-7	44-1	44-0	42·1 29·0
1	0-85		0-69	0-48	0-58	0-25	0-95	2-04	0-84	0-99	0.53	0-98	0-75	0-56	0-11	2-00	0-47	1-27	0-04	0-22	0-30	2-83	0.58	1-61	0-86	0-21





Violence.

One hundred and forty-two lives were lost by accident or negligence, as against 139 in 1897. Deaths from accidents or negligence of all kinds, including Homicide or Suicide, caused 176 deaths, being equal to 4.2 per cent. of the total deaths. The number of deaths from Drowning was as follows, viz.:—37 as against 34 in 1897 and 46 in 1896.

Inquests.

The number of deaths which have formed the subject of a Coroner's inquiry was 323, as against 378 in 1897 and 237 in 1896. The Coroner also investigated the circumstances attending the deaths of 57 persons (33 males and 24 females), in which he did not consider it necessary to hold inquests.

The following table shews the number of Inquests held in Kingston upon Hull, from the 1st January to 31st December, 1898, and the months in which they have occurred:—

	Males.	Females.	Total.
January	21	10	28*
February	9	12	21
March	17	12	29
April	 26	8	34
May	 17	3	20
June	 17	4	21
July	 10	10	20
August	 23	10	33
September	26	3	29
October	17	11	28
November	18	14	32
December	15	10	25
	216	107	320

^{*} This total of 28 included an inquest on 4 bodies, viz.:—Sculcoates disaster.

Ill-defined and not Specified Causes.

Four hundred and sixty-nine deaths are classified under this heading, the majority being from Debility and Uncertified causes of death, as against 400 in 1897, and 436 in 1896.

Uncertified Deaths.

During the year 40 deaths were not certified, either by a registered medical practitioner or by the Coroner, as against 64 in 1897 and 75 in 1896, being at the rate of 0.9 per cent. of the total deaths. In London the proportion was only 0.6 per cent. of the total deaths, whilst it averaged 1.3 in the thirty-two other great towns. The causes of all the deaths in Croydon and in Derby during the year 1898 were certified; among the other great towns the lowest proportions of uncertified deaths were 0.3 in Bolton and Gateshead, 0.4 in Leeds, and 0.5 in Brighton; the highest proportions were 3.4 in Liverpool, 3.3 in Blackburn, 2.9 in Birmingham and in Preston, and 2.7 in Halifax.

Sanitation.

During the year six thousand nine hundred and four houses have been examined in the house-to-house inspection. Three thousand eight hundred and fifty visits and inspections have been made to ascertain if works ordered by notices were in progress, and to examine houses respecting which complaints had been received.

One thousand six hundred and seventy-two visits have been made to Common Lodging Houses, including day and night visits. One thousand and eighty-five inspections were made of shops where milk was sold; four thousand seven hundred and ninety-seven cases of infectious disease were investigated, three hundred and twenty-one patients removed to the Hospitals, and two thousand three hundred and forty-one houses disinfected.

Housing of the Working Classes Act, 1890.

Your Committee, have at the various fortnightly meetings, been furnished with special reports upon insanitary properties

The following TABLE shews the NUMBER OF HOUSES CLOSED AND RE-OCCUPIED, in districts, during the undermentioned years :--

1898	Re-occu-	11	67	5	:	18
18	Houses Closed.	1	53	က	:	57
1897	Re-occu- pied.	1	1	13	1	13
18	Houses closed.	1	03	5	61	10
96	Re-occu-	1	7	1	1	00
1896	Houses closed.	00	1	C3	7	17
95	Re-occu-	1	1	14	1	14
1895	Houses closed.	1	1	œ	51	59
94	Re-occn- pied.	1	œ	41	10	59
1894	Houses closed.	1	1	113	80	121
1893	Re-occu-	7	1	1	1	7
18	Houses closed.	7	5	134	15	161
92	Re-occu-	3	1	5	1	8
1892	Houses closed.	66	30	100	14	243
	Re-occu-	1	1	1	1	1
1891	Houses closed.	20	16	11	14	61
	Dist.	П	C1	33	4	

Destructor.

The following table shews the number of loads destroyed during the undermentioned years:—

Year.	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898
No. of Loads	4119	4184	4759	4409	4493	4922	6129	9382	9251	7997	10011	10734	13587	15706

In consequence of the present Destructor being insufficient to deal with the large accumulations of refuse, representations have been made to your Committee, and a special report in respect to the providing of an additional Destructor, and also dealing with the various types of Destructors in general, was presented and duly considered.

A site was subsequently acquired in the Western District; a Beaman & Deas Destructor, together with a Washington-Lyons Disinfector, have been recommended for adoption; and plans are being arranged for a proper and efficient Disinfecting Station, with receiving rooms, bath rooms and discharge rooms.

The latter will enable families exposed to infection to be removed for isolation and bathed, whilst their houses, clothing, &c., are being disinfected.

Epizootic Disease.

There have been 29 outbreaks of Swine Fever. One hundred and thirty-six animals have been affected, some of which died from the disease, and the remainder slaughtered, also 252 animals were in contact.

The carcases of the affected animals were condemned, and removed to the Destructor for cremation.

Public Mortuary.

Table shewing the number of bodies admitted, inquests, and post-mortems held, and funerals that have taken place from the Mortuary during the year 1898:—

	Bodies Admitted.			No. of Post-Mortems.			f ts.	f. ls.	No. of Drowning cases.		
Month.	Males.	Females.	Total.	Males.	Females.	Total.	No. of Inquests.	No. of Funerals.	Males.	Females.	Total.
January February March April May June July August September October November December	10 7 6 11 12 6 6 11 13 9 11	4 5 3 4 1 1 3 3 4 6 5	14 12 9 15 13 7 9 14 16 13 17 14	3 5 10 8 1 4 5	2 5 3 4 1 1 2 3 4 6 5	10 8 8 14 9 2 6 8 13 10 13 13	10 9 14 10 7 7 14 15 11 16	6 5 2 5 1 5 3 8 9 4 5 9	5 1 1 4 2 3 1 5 4 2 3 	1 1 	6 1 1 5 2 3 1 5 4 2 3
Totals	111	42	1 5 3	75	39	114	139	62	31	2	33

TABLE SHEWING THE TOTAL NUMBER OF DEATHS FROM
DROWNING DURING THE LAST TEN YEARS.
Year...1889 1890 1891 1892 1893 1894 1895 1896 1897 1898 Total
Deaths 35 ... 26 ... 46 ... 44 ... 28 ... 37 ... 42 ... 46 ... 34 ... 37 ... 371

New Dwelling-Houses.

The number of plans for dwelling-houses approved by the City Corporation during the year 1898 was 1685, as compared with 1481 in 1897 and 1076 in 1896.

Public Baths.

During the year one hundred and eighteen thousand three hundred and eighty-five persons have availed themselves of the use of the public baths, particulars of which are given below.

TRIPPETT.	MADELEY STREET.				
1886 41193	1886 40461				
1887 42486	1887 42724				
1888 38494	1888 41213				
1889 55320	1889 51147				
1890 59465	1890 54195				
1891 61667	1891 48385				
1892 57986	1892 53275				
1893 57482	1893 58039				
1894 54831	1894 61224				
1895 58767	1895 67307				
1896 54284	1896 59230				
1897 55861	1897 59627				
1898 56653	1898 61732				

Flushing and Distribution of Disinfectants.

One hundred and fifty gallons of Disinfectant Fluid have been given to persons applying at the offices of the Sanitary Department; and two hundred and thirty gallons have been distributed by the Sanitary Inspectors at the houses in which infectious diseases have occurred.

Fifty-seven tons of disinfecting powder have been distributed during the process of the collection of excreta and house refuse by the various contractors during the months of June to October inclusive.

Common Lodging Houses.

A systematic inspection of these houses has been carried out by your Inspector both day and night, and special reports have from time to time been furnished to your Committee.

Food Inspection.

During the year six hundred and eighty-nine tons of Meat, Fruit, Fish, and Vegetables, &c., have been condemned and destroyed as unfit for human food.

In consequence of a discussion in reference to the method adopted for preserving herrings, I presented to your Committee the following report, namely:—

In pursuance of your Committee's resolution that the Medical Officer of Health be requested to report whether, in in his opinion, the practice of preserving herrings, by treating them with boracic acid, is satisfactory from a health point of view, the Medical Officer of Health begs to report as follows:—

Boracic acid and other various antiseptics, which were introduced about twelve years ago for the preservation of herrings, have not proved the success anticipated, in consequence of which the importation of fish preserved in this manner has greatly decreased.

Herrings preserved with boracic acid present, for a short time, a fresh appearance, but owing to the antiseptic being used with only sufficient strength to preserve the superficial structures, it is found, on splitting the herring, that the internal portions of the fish show signs of organic change, and should the antiseptic be applied sufficiently to preserve the herring in its entirety, the fish would probably be injurious to health.

The importation of herrings is greatly increasing, but they are now more generally preserved in ice, which is to be recommended as far preferable to antiseptics.

Cowsheds, Dairies and Milkshops.

Under the Cowsheds, Dairies and Milkship Order of 1885 and 1886 there were registered up to the end of 1898 265 Cowsheds and Dairies and 970 Milkshops.

Three applications were made for the registration of Cowsheds and Dairies, two of which were granted.

The number of inspections made of Cowsheds and Dairies was 821, and Milkshops 1085.

A Sub-Committee was specially appointed to visit the Cow Sheds and Dairies situate within the area recently added to the City, and after inspecting the same, reported that they had found them to be in a dilapidated and otherwise insanitary condition, and it was thereupon resolved that the regulations contained in the Cow Sheds, Dairies and Milk Shops Order, relating to lighting, cleansing, drainage and water supply, be carried out in accordance with the recommendations of the Medical Officer of Health, to the respective owners.

The number of Cow Sheds, &c., within the area added are as follows, namely:—

Number	Number	Number		
of Cow Sheds.	of Cows kept.		of Owners.	
33	 251		9	

Your Medical Officer of Health communicated with each of the owners of the respective premises, pointing out the various alterations required in order to place them in a sanitary condition, and the work is being carried out with as little delay as possible.

Slaughter Houses, &c.

The number of inspections made of Slaughter Houses was 759, Curing Houses 720, and Fish Shops 1422.

Infectious Diseases (Notification) Act.

During the year 4385 cases of infectious disease have been notified by medical practitioners to your Medical Officer of Health. The Sanitary arrangements of the premises have been carefully inspected, and notices forwarded to the School Board and Free Libraries daily, notifying to them the addresses of the various cases of infectious disease.

INFECTIOUS DISEASES (NOTIFICATION) ACT, 1889.

Adopted 1st February, 1890 (Measles included 10th February, 1893).

Totals.	547 572 910 490 449 279 130 115 246 246 246 249	4385
Erysipelas.	23 32 33 24 24 31 18 18 20 37 37 33	908
Croup.	:	17
Relapsing Fever,	::::::::	:
Continued Fever.	G: :444G :GOHH	29
Puerperal Fever.		15
Typhoid Fever.	12 6 6 11 9 30 40 98 56 31	312
Typhus Fever,	::::::::	:
Diphtheria.	111 144 16 10 123 8 8 9 9 17	119
Scarlatina,	112 79 133 86 77 54 27 27 28 49 48	160
Measles.	386 448 714 362 312 176 114 32 31 70 97	2823
Small Pox.	: : 62 : : : : : :	4
Cholera (English).		:
Months. 1898.	January February March April May. June July August September October November December	TOTALS

SANITARY LEGISLATION.

Of the 62 public general Acts which passed during the last session, about one-tenth have some direct bearing upon Public Health or Local Government.

One of the most important Bills, i.e., one to amend and strengthen the law for preventing the adulteration of food and drugs, was introduced towards the close of the session, and consequently received practically no consideration.

VACCINATION ACT.

(61 AND 62 VIC., CH. 49.)

The Bill for amending the vaccination law has now passed into law, after occupying a very large amount of time.

The report of the Royal Commission on Vaccination, and the deadlock at which the administration of the existing Acts had arrived, rendered legislation on the subject imperative; but the measure which finally received the Royal Assent differs very materially from the Bill which was in the first instance submitted to Parliament. The object of the original Bill was merely to abolish arm-to-arm vaccination, and substitute vaccination with calf lymph; to extend the age for vaccination from three months to twelve months; to provide for the performance of the operation at the residence of the child, instead of at a public station as heretofore; and to abolish the repetition of prosecutions and penalties for refusal or neglect of vaccination.

That Bill was exhaustively discussed, and during the stage of its consideration a proposal to insert a "conscience clause" was ultimately rejected, however on being again raised the Government suddenly gave way on the point and the clause was accepted.

The Act, which came into operation on the 1st January, 1899, has to remain in force for five years only, unless in the meantime that period be extended.

METEOROLOGY.

The two latter charts embodied in the report show the fortnightly record of the Meteorological conditions throughout the year. The lower portions of the charts give a diagram of the fortnightly Death Rate from all causes, the number of deaths from Diarrhœa and Scarlet Fever, Diseases of the Respiratory Organs, and Consumption, as compared with the various Meteorological conditions.

For the Meteorological portion of the Report, I am greatly indebted to Mr. A. E. Peak, Parks Superintendent.

Meteorological Remarks.

JANUARY. 1898.

The weather during the month, taken on the whole, was fine, mild, dark, dull and overcast, with frequent fogs and mists. A few showers of rain fell at the beginning, but the total fall was only 0.73 inch, the 5th was the only really wet day during the month, 17¹/₄ hours of sunshine being recorded. Winds for the most part S.W., occasionally S.E., moderate or light at all times. The highest reading of the maximum thermometer in the shade was 56° on the 30th and 31st, and the lowest minimum temperature being 29° on the 10th; this and the 23rd were the only days on which it was below freezing point; the highest minimum was 47° on the 20th, the lowest maximum being 39° on the 17th, and the mean temperature of the month was 42° 9'. No hail or snow fell, but fog prevailed on the 1st, 2nd, 3rd, 9th, 10th, 12th, 13th, 14th, 15th, 16th, 17th and 23rd, and Lunar Halos were seen on the 2nd, 6th and 7th. highest reading of the barometer was 30.608 (the highest during the year) on the 15th, and it was 30.000, or higher on 24 other days, the lowest reading being 29.428 on the 1st, and the mean reading was 30.251 (the highest mean during the year). The mean temperature of the earth at 1 foot deep was 41° 9', and at 4 feet deep 44° 9'.

FEBRUARY.

The weather during February was characterised by a light rainfall, a few very slight falls of hail and sleet, sometimes rather frosty, frequently with only a small amount of cloud, and may on the whole be described as fine and mild. Winds often S.W. or N.W., rather stormy on the 2nd, 4th, 15th and 16th, moderate or light at other times. The heaviest fall of rain in one day was was 0.45 inch on the 3rd, the total fall being 1.52 inch. Snow fell on the 4th, 18th, 20th and 23rd, but only in small quantities, and a little hail fell on the 6th and 20th. There was no fog, and $74\frac{1}{2}$ hours of sunshine were recorded. The highest reading of the maximum thermometer in the shade was 56° on the 1st, the lowest 39° on the 5th. The highest minimum temperature was 42° on the 1st, 11th and 15th, the lowest 24° on the 21st (the lowest during the year), and it was lower than freezing point on 12 other days, the mean temperature of the month being 42° 1'. The highest reading of the barometer was 30.242 on the 11th, the lowest 29.176 on the 20th, the mean reading for the month being 29.869. The mean temperature of the earth at 1 foot deep was 39° 4', and at 4 feet 44° 1'.

MARCH.

This was the coldest month of the year, and the weather was more than usually variable, beginning with a squally day, and ending with a stormy week, the remaining period being generally fine, calm, and nearly free from fogs, 90 hours of sunshine being recorded. A little hail, sleet and snow fell on the 1st, 6th, 7th, 24th and 25th. Winds generally N.E. or S.W. Stormy on the 1st, 24th, 25th and 26th, fresh on the 23rd and 27th, moderate or light at other times. Rain fell on 16 days, the greatest fall in one day was 0.31 inch on the 26th, the total rainfall being 1.34 inch. The mean temperature of the month was 39°4′ (the lowest during the year). The highest maximum temperature was 58° on the 18th, the lowest reaching 38° on the 3rd. The lowest minimum temperature was 25° on the 7th, and the highest reached 44° on the 17th and 18th.

There was frost on 19 days. The highest reading of the barometer was 30.288 on the 10th, the lowest 29.472 on the 1st, the mean reading being 29 908. The mean temperature of the earth at 1 foot deep was 39° 2′, and at 4 feet 42° 6′.

APRIL.

Two periods of fine, but rather cloudy weather occurred during April, namely, from the 1st to the 8th, and from the 17th to the 25th (dates inclusive); the remaining portion was wet. Winds rather cold, especially after the 12th, generally E. or S.E., light or moderate at all times. Rain fell on 13 days, the greatest fall in one day being 0.97 inch on the 11th, and the total fall was 2.88 inches. Hail fell on the 4th, and there was fog on the 1st and 28th. Thunder was heard, but lightning not seen on the 29th, and 931 hours of sunshine were recorded. The mean temperature of the month was 45° 8', the highest maximum being 68° on the 8th, the lowest 48° on the 6th and 19th. The highest minimum was 47° on the 10th, the lowest 27° on the 5th, and it was at or below 32° on six other days. The lowest reading of the barometer 29.522, the highest 30.274 on the 24th, and the mean reading for the month was 29.929. The mean temperature of the earth at 1 foot deep was 45° 2', and at 4 feet 45°.

MAY.

Rather showery weather prevailed up to the 13th, frequently with westerly winds. Afterwards it was much finer, with some bright sunny days, but very often with cold easterly winds, which were moderate or light at all times. Hail fell on the 3rd and 12th, and snow fell on the 12th. There was no fog, and 138½ hours of sunshine were recorded. Thunderstorms occurred on the 12th and 31st, and thunder was heard but lightning not seen on the 2nd, 3rd, 4th and 5th. The total rainfall was 1.82 inches, the greatest fall in one day was 0.47 inch on the 20th, and 0.01 inch or more fell on 15 days. The mean temperature was 48° 4′, the highest maximum being 64° on the 22nd, the lowest 51° on the 2nd, 12th, 20th and 21st. The highest minimum temperature was 46° on the

4th and 8th, the lowest being 34° on the 18th and 27th. The highest reading of the barometer was 30.362 on the 7th, the lowest 29.132 on the 11th, and it was below 30.000 on 20 other days, the mean reading being low, reaching 29,879. The mean temperature of the earth at 1 foot deep was 49° 9' and at 4 feet 44° 7'.

JUNE.

Although there were a good many more or less showery days during the month, yet there was not a heavy rainfall. The same may be said about the temperature; several warm days occurred, and it was especially dry and fine between the 7th and 19th (dates inclusive) yet the temperature on the whole was low. The winds were at all times moderate or light, but frequently cold, often N.W., S.W. or N.E. Rain fell on 14 days; the heaviest fall in one day was 0.41 inch on the 21st, the total rainfall being 1.66 inch. A thunderstorm occurred on the 6th, and thunder was heard, but lightning not seen, on the 24th and 25th. Hail fell on the 20th. There was no fog, and 131 hours of sunshine were recorded. The mean temperature was 55° 4', the highest being 75° on the 29th, and it was 70° or higher on seven other days; the lowest maximum was 54° on the 13th and 14th. The lowest minimum was 34° on the 1st, and it was below 40° on the 3rd and 15th, the highest being 55° on the 21st. The highest reading of the barometer was 30.564 on the 13th, the lowest 29.510 on the 1st, the mean reading being 30 013. The mean temperature of the earth at 1 foot deep was 56° 9', and at 4 feet 52° 5'.

JULY.

A light rainfall, a good amount of cloud, often with a low temperature, were the main characteristics of the weather during the month. Winds often northerly, strong on the 17th and 18th, fresh on the 10th, 12th, 13th, 14th and 16th, moderate or light, sometimes quite calm at other times. This was a dry month, the total rainfall being only 0.5 inch. There was no fog, and 155\(\frac{1}{4}\) hours of sunshine were recorded. There was a thunderstorm on the 22nd, and thunder was heard, but

lightning not seen, on the 28th. The mean temperature of the month was 58° 6′; the lowest maximum was 57° on the 9th, the highest being 74° on the 22nd and 31st, and it was 70° or higher on 11 other days. The lowest minimum was 40° on the 20th, and it was at or below 45° on five other days, the highest reading being 59° on the 14th. The highest reading of the barometer was 30.430 on the 10th, and it was 30.000 or higher on 16 other days; the mean reading for the month was 30.013. The mean temperature of the earth at 1 foot deep was 60.9′, and at 4 feet 56° 3′.

AUGUST.

Although there were a good many showers which were more remarkable for the quantity of rain that fell, yet there were many periods of fine harvest weather during the month. Rain fell on 14 days; the heaviest fall in one day was 1.10 inch (the heaviest fall during the year), the total fall being 3.71 inches—the greatest monthly fall during the year. Winds generally moderate or light, sometimes quite calm, often westerly. There was no fog, and 1431 hours of sunshine were recorded. Thunderstorms occurred on the 21st and 28th. The mean temperature of the month was 60° 2' (the hottest month in the year), the highest maximum being 81° on the 12th, and the lowest 57° on the 29th. The lowest minimum was 44° on the 9th and 29th, the highest being 620 on the 13th, and it was only 2° lower on the 11th. The mean reading of the barometer was 30.034, the highest reading being 30.310 on the 18th, and it was 30.000 or higher on 22 other days, and the lowest reading was 29.624 on the 30th. The mean temperature of the earth at 1 foot deep was 60° 3', and at 4 feet deep 58° 4'.

SEPTEMBER.

Fine and exceptionally dry Autumn weather prevailed throughout the month, only 0.26 inch of rain falling, which was the least monthly fall during the year. Winds very variable in direction, moderate or light in force, sometimes quite calm. There was fog on the 30th, and 115 hours of sunshine was recorded. The mean temperature was 58° 3′, the

highest maximum being 85° on the 17th, which was the hottest day during the year, and the maximum temperature was 70° or higher on 14 other days, the lowest being 54° on the 24th. The lowest minimum reading was 37° on the 28th and 30th, the highest being 59° on the 9th. The mean reading of the barometer was high, 30·126, the highest reaching 30·450 on the 4th, the lowest 29·738 on the 27th. The mean temperature of the earth at 1 foot deep was 58° 1′, and at 4 feet 58°.

OCTOBER.

The drought which had prevailed for some time continued up to the 10th; after this date dull and wet weather occurred, which lasted to the end of the month. Rain fell on 18 days during the month. The greatest amount that fell in one day was 0.85 inch on the 18th, and the total fall was 3.19 inches. The prevailing winds were at first easterly, and westerly afterwards, rather stormy on the 18th and 19th, fresh on the 15th and 25th, moderate or light, sometimes quite calm at other times. Fog on the 3rd, 4th, 8th and 9th, and 511 hours of sunshine were recorded. The mean temperature was 51° 8', the highest maximum was 66° on the 2nd and 3rd, the lowest being 51° on the 31st. The lowest minimum temperature was 33° on the 11th, the highest being 53° on the 5th and 6th, and it was 50° or higher on four other days. The mean readings of the barometer were low, 29 878, the lowest reading reaching 29.050 on the 17th, and the highest 30.462 on the 4th. The mean temperature of the earth at 1 foot deep was 550 2', and at 4 feet 55°.

NOVEMBER.

The weather during the month was generally dark, dull and overcast, often with fog, mist or rain, only $18\frac{3}{4}$ hours of sunshine being recorded. Rain fell on 18 days, the heaviest fall in one day being 0.59 inch on the 23rd, and the total rainfall was 2.24 inches. Winds generally S.E. or S.W., stormy on the 23rd, fresh on the 2nd, 3rd and 24th, moderate, light or calm at other times. Snow fell on the 22nd, 23rd and 28th, and hail fell on the 22nd. There was fog on the 9th,

10th, 11th, 12th, 13th, 14th, 15th, 16th and 17th. The mean temperature was 44° 4′, the highest maximum being 61° on the 3rd, and the lowest 39° on the 22nd. The lowest minimum was 26° on the 23rd, and the highest was 48° on the 12th. There was frost on six days. The readings of the barometer were low, the lowest reaching 28.916 on the 25th, the highest 30.438 on the 18th, the mean reading for the month being 29.844. The mean temperature of the earth at 1 foot deep was 47° 1′, and at 4 feet 52° 1′.

DECEMBER.

The weather during the month was generally dark, dull, overcast and rather showery, but mild, only 114 hours of sunshine being recorded. Rain fell on 14 days. The heaviest fall in one day was 0.40 inch on the 26th, the total rainfall being 2.20 inches. Winds often S.W., stormy on the 27th, fresh on the 1st, 2nd, 6th, 10th and 28th, moderate or light at other times. Snow fell on the 20th and 31st, and there was fog on the 17th, 20th and 21st. The mean temperature of the month was 41° 5', the highest maximum being 58° on the 5th and 6th, the lowest 38° on the 23rd and 31st. The highest minimum temperature was 50° on the 5th, the lowest being 26° on the 31st, and it was at or below freezing point on five other days. The mean reading of the barometer was 29.959, the highest reading being 30.428 on the 22nd, and the lowest 29.126 on the 29th. The mean temperature of the earth at 1 foot deep was 43° 1', and at 4 feet 47° 6'.

I have to thank you, Mr. Chairman, Deputy-Chairman, and the members of the Sanitary Committee, for your very kind assistance at all times, and the Officials of the Sanitary Staff, who have been most unremitting in their attention.

APPENDIX

TO THE

Report of the Medical Officer of Health.



1898.

ZYMOTIC DISEASES.—STREET LIST.

DRYPOOL.

	Small Pox.	Measles.	Searlatina.	Diphtheria.	Whooping Courh.	Fevers.	Diarrhoea.
Alexandra Dock	0						
Arundel Street	0						
Balfour Street	0						
Barnsley Street	0						
Beaumont Street							
Bellamy Street	0						
Brazil Street							
Bright Street							
Buckingham Street							
Burleigh Street							
Clarence Street							
Courtney Street							
Craven Street							
Crowle Street							
Dansom Lane							
Durham Street							
Emily Street	0						
Ferries Street	0						
Field Street	0						
Franklin Street	0						
Graham's Row	0	 0	 0	 0	 0	 0	 1
Hedon Road	0	 0	 0	 0	 0	 0	 1
Her Majesty's Prison	0	 0	 0	 0	 0	 0	 1
Holderness Road	0	 0	 1	 0	 0	 0	 0
Hotham Grove	0	 0	 0	 0	 0	 0	 1
Hotham Street	0	 0	 0	 0	 0	 0	 1
Jalland Street	0	 0	 0	 0	 0	 1	 0
James Street	0	 0	 0	 0	 0	 0	 2

	Small Pox.	Measles.	Scarlatina.	Diphtheria	w nooping Cough.	Fovers. Diarrhoa.
Kent Street	0	0	0	0	0	0 1
Lee Smith Street	0	0	0	0	0	3 1
Merrick Street	0	1	0	0	0	0 0
Mersey Street	0	0	0	0	0	0 1
Naylor's Row	0	0	0	0	1	0 0
New Bridge Road	0	0	0	0	0	0 1
Nornabell Street	0	0	0	0	0	0 4
Portobello Street	0	0	0	0	0	0 1
Prospect Place	0	0	0	0	0	0 1
Raven Street	0	0	0	0	0	2 0
Ripon Street	0	0	0	0	0	0 1
Sanatorium	0	0	0	0	0	1 0
Seward Street	0	0	0	0	0	0 1
Shaw Street	0	0	0	0	0	0 1
Thomas Street	0	1	0	0	0	0 0
Victor Street	0	0	0	0	0	0 2
Waller Street	0	1	0	0	0	0 2
Warwick Street	0	1	0	0	0	0 1
Wentworth Street	0	0	0	0	0	0 1
Williamson Street	0	0	0	0	0	0 3
Woodhouse Street	0	0	0	0	0	1 0
Wyke Street	0	0	0	0	0	1 1
	SUT	ron.				
Albert Street	0	0	0	0	0	0 1
Bedford Street	0	0	0	0	0	0 4
Chapman Street	0	0	0	0	0	0 4
Cleveland Street	0	0	0	0	0	0 1
Cornwall Street	0	. 0	1	0	0	0 2
Cuthbert Street	0	0	0	0	0	1 0
Dalton Street	0	0	0	0	0	0 1
Duncan Street	0	1	0	0	0	0 0
Hodgson Street	0	. 0	0	0	1	0 3
Jenning Street	0	. 0	0	0	1	0 0

	Small Pox.	Measles.	Scarlatina.	Diphtheria.	Whooping Cough.	Ferers. Diarrhea.
Lime Street	0	1	0	0	0	0 1
Nelson Street	0	0	0	0	1	0 0
St. Mark Street	0	2	0	0	3	0 5
Sidney Street	0	0	0	0	0	1 1
Sitwell Street	0	0	0	0	0	0 1
Spittle Street	0	0	0	0	0	0 1
Sutton Bank	0	0	0	0	0	2 1
Spyvee Street	0	0	0	0	0	0 2
Witham	0	0	0	0	0	0 2
Withernsea Street	0	1	0	0	0	0 1
EAST	SOTT	LCOA	TES			
					,	0 0
Bishop Street						0 2
Bourne Street						0 1
Bromley Street						0 0
Cumberland Street						0 1
Dock Street						0 1
Green Lane						0 1
Kirkby Street						0 0
Lincoln Street						0 1
						0 2
New George Street Northumberland Avenue						2 5
Oxford Street						0 1
Princess Street						0 1
Scott Street						1 2
Sculcoates Lane						
						0 5
Sykes Street						0 2
Westmoreland Street						0 4
Wincolmlee						0 0
Worship Street						0 2
York Street	0	. 0	0	0	0	0 2

WEST SCULCOATES.

	Small Pox.	Measles.	Scarlatina.	Diphtheria.	Whooping Cough.	,	Fevers.	Diarrhes.
Albany Street	0	 3	 0	 0	 0		0	 0
Alicia Street	-							
Beverley Road	0	 0						
Blundell Street	0	 0						
Bridlington Street	0							
Brunswick Avenue	0							
Cannon Street	0							
Cave Street	0	 1	 0	 0	 0		0	 0
Charles Street	0	 0	 0	 0	 3		0	 2
Clifton Street	0	 0	 0	 0	 0		0	 1
Cottingham Drain Side	0	 0	 0	 0	 0		0	 0
Derby Street	0	 0	 0	 0	 0		0	 2
Edward Street	0	 0	 0	 0	 1		0	 0
Epworth Street	0	 0	 0	 0	 0		0	 2
Fern Street	0	 0	 0	 0	 0		0	 1
Finsbury Street	0	 0	 0	 0	 0		0	 1
Fountain Road	0	 1	 0	 0	 0		0	 0
Francis Street, E	0	 0	 0	 0	 1		0	 0
Gibson Street	0	 0	 0	 0	 0		0	 1
Grange Street	0	 1	 0	 0	 0		0	 3
Grosvenor Street	0	 2	 0	 0	 0		0	 1
Harley Street	0	 0	 0	 0	 0		0	 1
King Street	0	 1	 0	 0	 0		0	 0
Liddell Street	0	 0	 0	 0	 0		0	 1
Lorne Street	0	 2	 0	 0	 0		0	 1
Margaret Street	0	 0	 0	 0	 0		0	 1
Marlborough Terrace	0	 0	 0	 0	 0		0	 2
Mayfield Street	0	 1	 0	 0	 0		0	 1
Middleton Street	0	 0	 0	 0	 0		0	 1
Norfolk Street	0	 0	 0	 0	 0		0	 1
Park Grove	0	 0	 0	 0	 0		1	 0
Providence Row	0	 0	 1	 0	 0		0	 0

	Small Pox.	Measles.	Scarlatina.	Diphtheria.	Whooping Cough.	Fevers. Diarrhea.
Reform Street	0					0 1
Rodney Street					. 0	
Rose Street						0 1
St. Paul Street						0 5
Sculcoates Lane						1 2
Sculcoates Workhouse						0 1
Somerscales Street						0 1
Symons Street						0 0
Temple Street						0 0
Terry Street						0 1
Vincent Street						0 0
Waterloo Street	0	2	0	0	. 2	1 1
Waterworks Street	0	0	0	0	. 0	1 2
Worsley Street	0	0	0	0	. 1	0 0
F	UMI	BER.				
Adelaide Street	0	1	0	0	. 0	0 1
Canning Street						0 0
Cambridge Street						0 1
Castle Street	0	0	0	0	. 1	0 1
Chapel Street	0	0	0	0	. 0	0 1
Charlotte Street	0	0	0	0	. 0	0 1
Carr Lane	0	0	0	0	. 0	0 1
Cogan Street	0	1	0	0	. 0	0 1
Collier Street	0	1	0	0	. 0	0 0
Colonial Street	0	1	0	0 .	. 0	0 1
Edward's Place	0	0	0	0	. 0	0 4
Fawcett Street	0	0	0	0	. 0	0 1
Fetter Lane	0	0	0	0	. 0	. 1 0
Great Passage Street	0	0	0	0	. 0	1 0
Great Thornton Street	0	0	0	0	. 0	0 2
High Street	0	.1	0	0	. 0	. 0 1
Humber Dock Side	0	0	. 0	0	. 1	. 0 0

	Por.		.89		tins.		Diphtheria		Whooping Cough.		_		noes.
	Small Por.	3	Measles.		Scarlatina.		ipht		Vhoor vough		Fevers.		Diarrhoea.
Land of Green Ginger		(
Lower Union Street													
Market Place	-												
Michael Street		(
Moxon Street												•••	
North Street													
Osborne Street													
												•••	
Pease Street												•••	
												•••	
Roper Street												•••	
Royal Infirmary													
St. Stephen's Square Salthouse Lane												•••	
												•••	
Short Street												•••	
Spencer Street													
Spring Street													
Temperance Street		(•••	
Wakefield Street	-											•••	
Walker Street		(•••	
Waterhouse Lane		(
Waverley Street						•••						•••	
West Street													
William Street	0 .	(U	•••	0	•••	0	•••	0	•••	0	•••	3
	MY	TO	N	Γ.									
Adelaide Street	0.		0		0		0		1		0		1
Alexandra Street	0 .												
Anlaby Road	0 .												
Bean Street													
Boynton Street	0 .												
Boulevard, South	0 .												
Campbell Street													
Clarendon Street													
	1000			2000	100		100		357				1977

	Small Pox.	Meagles.	atina.	Diphtheria.	Whooping Cough.	.8.	Diarrhosa,
	Smal	Meas	Scarl	Diph	Who	Fevers.	Diar
Constable Street	0	 0			1	 1	 0
Convent Lane	0						
Conway Street	0	 0	 0	 0	 0	 0	 1
Daltry Street	0	 0	 0	 0	 0	 0	 2
Day Street	0	 1	 1	 0	 1	 1	 1
Derringham Street	0	 0	 0	 0	 0	 0	 1
Division Road	0	 0	 0	 0	 0	 0	 3
Edgar Street	0	 0	 0	 0	 0	 0	 1
Fountain Street	0	 0	 0	 0	 0	 0	 1
Gilbert Street	0	 0	 0	 0	 0	 0	 1
Goodwin Street	0	 1	 0	 0	 0	 0	 0
Harrow Street	0	 1	 1	 0	 0	 1	 3
Hessle Road	0	 1	 0	 0	 0	 0	 0
Hull Workhouse	0	 0	 0	 0	 0	 0	 1
Jackson Street	0	 0	 0	 0	 0	 0	 2
Jane Street	0	 1	 0	 0	 0	 0	 1
Kimberley Street	0	 0	 0	 0	 0	 0	 2
Lansdowne Street	0	 0	 0	 0	 0	 0	 1
Londesborough Street	0	 1	 0	 0	 0	 0	 3
Marmaduke Street	0	 0	 0	 0	 0	 ()	 1
Mechanics' Lane	0	 0	 0	 0	 0	 0	 2
Parrott Street	0	 0	 0	 0	 0	 0	 2
Redbourne Street	0	 0	 0	 0	 0	 1	 0
Regent Street	0	 0	 0	 0	 0	 0	 1
Rosamond Street	0	 1	 0	 0	 1	 0	 2
Spring Bank, W	0	 0	 0	 0	 0	 0	 1
South Parade	0	 0	 1	 0	 2	 0	 2
Staniforth Place	0	 1	 1	 0	 0	 0	 2
Stanley Street	0	 0	 0	 0	 0	 0	 1
Strickland Street	0	 0	 0	 0	 1	 2	 5
Tadman Street	0	 0	 0	 0	 0	 0	 2
Tomlinson Street	0	 0	 0	 0	 1	 0	 1
Trinity Street	0	 0	 0	 0	 0	 0	 1

	Small Pox.		les.		atina.	theria		Bujde	- Conon	ŕ	Diarrhoea.
	Smal		Meas		Scarl	Diph		Who	on on	Pover	Diarr
Vauxhall Grove	0										
Victoria Hospital	0										
Villa Place	0										
Walcott Street	0										
Walker Street	0		1		0	 0		0		1	 4
Walliker Street	0		0		0	 0		1		1	 1
Wassand Street	0		2		0	 0		0		0	 1
Wellsted Street	0		0		1	 0		1		0	 2
West Parade	0		0		0	 0		1		0	 3
Wyndham Street	0		1		0	 0		0		0	 0
NE	W.	IN	GI	10	٧.						
Albert Street	0		0		0	 1		0		0	 0
Arthur Street											
Beecroft Street											
Brighton Street	0		1		0	 0		1		0	 2
Carlton Street					1000						
Chiltern Street	0		0		0	 0		1		1	 5
Eastbourne Street	0		0		0	 0		0		1	 5
Edinburgh Street	0		0		0	 0		0		0	 1
Evan's Square	0		1		0	 0		0		0	 0
Gillett Street	0		1		0	 0		2		0	 5
Glasgow Street	0		1		0	 0		2		1	 3
Granville Street	0		0		0	 0		0		0	 1
Havelock Street	0		1		0	 0		0		0	 0
Hawthorn Avenue	0		0		0	 0		1		0	 2
Liverpool Street	0		0		0	 0		0		0	 3
Manchester Street	0		0		0	 0		1		0	 2
Massey Street	0		0		0	 0		0		1	 1
Plane Street	0		0		1	 0		0		0	 0
St. Andrew's Street	0		0		0	 0		1		0	 0
St. George's Road	0		2		2	 0		0		2	 2
Spring Grove, Anlaby Rd.	0		0		0	 0		0		0	 1
Subway Street	0		0	•••	0	 0	•••	0		0	 3

	Small Pox.		Measles.		Scarlatina,	Diphtheria.	Whooping Cough.	Fevers.	Diarrhea.
Walton Street	0		0		0	 0	 0	 0	 1
Westbourne Street	0		0		0	 0	 1	 0	 1
West Dock Street	0		0		0	 0	 0	 0	 1
Wheeler Street	0		0		1	 0	 1	 0	 1
Witty Street	0		0		0	 0	 0	 0	 1
Woodcock Street	0		2		0	 0	 0	 2	 3
N	EV	VL.	A	ND					
Alexandra Road	0		0		0	 0	 0	 0	 1
Beverley Road									
Elm Street									
Grafton Street									
May Street									
Prince's Road									
Roseberry Avenue									
Reynoldson Street									
St. Augustine's Avenue									
Salisbury Gardens									
Saltings Lane									
Sharp Street									
STON									
Buxton Grove	0		0		0	 0	 0	 0	 1
Ferry Avenue	0		0		1	 0	 0	 0	 1
Garbutt's Row			-						
Stoneferry Road									
Sutton Grove									

MARFLEET.

Nil.

Town Hall, Hull, 1899.

To the Medical Officer of Health.

SIR,

I beg to present you my Report upon the work done in the Nuisance Inspector's Department during the year 1898, in the usual tabular form.

In one or two cases I have appended the totals of similar tables for 1897, for your more ready comparison.

I am, Sir,

Your obedient Servant,

C. W. EVINGTON,

Cert. Assoc. San. Inst.



No. 17.—Table showing the number of Nuisances dealt with by legal notice in 1893:—

Orders given to Abate.	No. of Nuisances.
To Cleanse choked gullies , Provide and repair defective pavement. , Provide sanitary gullies , Repair privies , Remove or disconnect privies from houses , Provide privy accommodation , Provide new sanitary pipe drainage , Cleanse choked drains , Cleanse and limewash dirty premises , Erect, cleanse and repair spouting , Remove offensive refuse , Remove manure , Remove stagnant water , Disconnect sink waste-pipes from drains , Disconnect spouts from drains , Relay or repair drains , Repair roofage , Abate stench nuisances , Remove pigs and erect new sties , Abate smoke nuisances , Erect and repair water-closets , Abate nuisances from damp walls , Erect and repair manure-steads , Erect and repair urinals , Provide dust-bins , Remove poultry, pigeons and animals , Cease overcrowding of premises , Repair or close dilapidated premises , Provide ventilation under ground-floor , Provide new drainage and pavement to pigsties	694 460 388 327 15 18 321 501 22 28 23 6 17 30 18 58 25 14 6 3 87 4 1 9 23 9 7
Total	3141

No. 18.—Record of Drainage done by order of legal notice during the year 1898.

Number of Houses provided with New Drains in lieu of Defective Drainage	423
Number of Areas and Back Passages drained	181
Number of Sanitary Gullies provided	447
Length of new Sanitary Pipe Drainage	10337 feet
Square feet of Pavement (New)	36520

Record of work done by letter or private arrangement during the year 1898.

Houses provided with new drainage .	43
Length of Drainage	. 4344 feet
Sanitary Gullies	179
Houses provided with new pavement.	48
Water Closets provided	70
Privies provided, repaired or disconnecte	ed 57
Square feet of pavement	8959
Areas Drained and Paved	24
Drains, Gullies, and Premises cleansed	a. 209
Intercepting Traps provided	6
Removals of Manure	55
Urinals provided	. 1

OFFENSIVE TRADES AND SMOKE NUISANCE REPORT.

For the Year ending December 31st, 1898.

Offensive Trad	es (Day I	nspec	tions)	 	 2700
,, ,,	(Night	Insp	ections)	 	 220
Smoke Inspect	ions			 	 500
Pigsties Inspected			•••	 	 1302
					-
	To	otal		 	 4722

No. 19.—TABLE SHEWING CASES OF ZYMOTIC DISEASES INVESTIGATED

DURING 1898.

Total.	947 370 320 867 867 377 377 114 114	4684
Ристрета! Речет.	401 WHHH : : : :	12
Continued Fever.	# n n : : : : : : : : : : : : : : : : :	29
Erysipelas.	522 c 23 4 c 25 z z z :	288
ъэмтлаіП.	31 31 31 31 31 31 31 31 31 31 31 31 31 3	365
Fevers.		297
Whooping.	8 9 8 4 1 1 1 2 : :	67
Croup.	8018814 : : : :	16
Diphtheria.	18 19 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	105
Scarlatina.	197 288 36 36 141 47 47 22 22 34 34 34 34 34 34 34 34 34 34 34 34 34	735
Measles.	498 202 202 518 518 156 496 339 206 85 339	2766
Small Pox.	4::01::::	4
DISTRICTS.	Drypool Sutton East Sculcoates West Sculcoates Humber Myton Newington Newland Stoneferry Marfleet	Totals

No. 20.

Table shewing number of Articles, also Books from the Free Libraries, Disinfected at Hospital, and Houses Fumigated, during the year 1898.

MONTHS.	No. of		HOUSES FUMIGATED.		
MONTHS.	Books.	Articles.	DISTRICTS	No. of Houses.	
January	35	1294	Drypool	517	
February	37	964	Sutton	162	
March	103	1678	East Sculcoates	157	
April	65	116	West Sculcoates	380	
May	45	809	Humber	154	
June	32	470	Myton	380	
July	9	229	Newington	335	
August	_	315	Newland	185	
September	3	292	Stoneferry	70	
October		629	Marfleet	1	
November	11	721			
December	2	647			
Totals for year	342	8164		2341	

No. 21.—Table shewing number of Applications made at the Sanitary Office for the attendance of the Night-soil Contractors, with bona-fide complaints.

,				
Date.	No. of Applications.	No. of Bona- fide Cases.	Night-soil.	Dry-dust.
Jan. 8 ,, 22 Feb. 5 ,, 19 March 5 ,, 19 April 2 ,, 16 ,, 30 May 14 ,, 28 June 11 ,, 25 July 9 ,, 23 Aug. 6 ,, 20 Sept. 3 ,, 17 Oct. 1 ,, 15 ,, 29 Nov. 12	133 113 114 88 93 118 144 92 162 161 191 179 178 160 151 110 143 161 167 146 127 128 141	4 1 - 1 - 1 2 1 1 4 3 - 5 6 2 1 41 1	1 - 1 - - - - 1 1 2 2 - - 2 3 2 - 2 2 1	3 1 - 1 - 1 - 2 - 2 1 - 3 3 - 1 19 -
Dec. 10 ,, 24	136 157 133	2 1 1	1	$\frac{2}{1}$
Total, 1898	3626	79	40	39
Total, 1897	3224	58	14	44

No. 22.

Table shewing number of Registered and Licensed Premises requiring inspection.

Description of Premises.	No.
Common Lodging Houses	35
Slaughter Houses	86
Fish Curing Houses	56
Cow Sheds (2700 Cows)	265
Milk Shops	970
Tripe Boiling Houses	12
Fat and Tallow Melting Works	11
Soap Boilers	5
Bone Boiling Works	4
Gut Scraping ,,	4
Ammoniacal Liquor Works	2
Knackeries	2
Fish Manure Works	2
Cod Liver Boilers	5
Total	1459

No. 23.

Table of Common Lodging Houses, their situation, and the number of Rooms and Lodgers.

STREETS.	No. of Houses.	No. of Rooms.	Registered No. of Lodgers.
Blanket Row Charlotte Street Cross Street Dock Street Empringham Street Finkle Street Garden Street Great Union Street Little Humber Street Mill Street Myton Place Osborne Street Robinson Row Salthouse Lane Waltham Street Waterhouse Lane West Street	5 1 1 4 1 2 3 1 4 1 2 1 3 1 2 2 2	42 15 5 23 9 8 8 24 13 22 7 11 8 23 7 14 13	318 80 23 146 72 27 22 230 75 75 42 60 33 145 53 106 70
Totals	35	252	1577

No. 24.

Table shewing Meat, Fruit, Fish, &c., seized and condemned by Inspector, destroyed as unfit for human food during the year 1898.

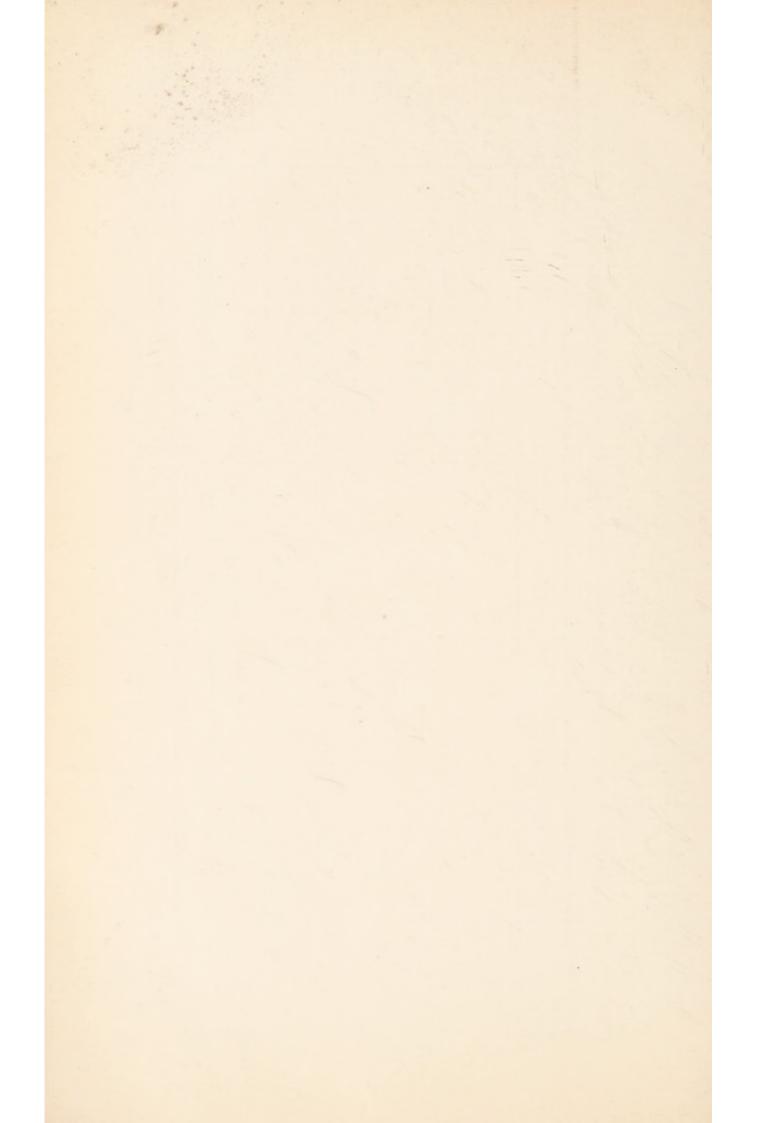
Kind of Food Destroyed.	Quantity in lbs.
51½ Beast Carcases	28840
108½ Sheep Carcases	6076
76 Calf Carcases	6384
45½ Pig Carcases	3801
6½ Lamb Carcases	364
Meat, &c	15518
Yeast	1116
Eggs	300
Fruit	230533
Vegetables	205408
Fish	982023
Mussels, Cockles, &c	33962
Hares, Rabbits, Geese, Chickens, &c	29372
Total in lbs	1543697
Total for 1897	1243023

No. 25.—TABLE SHEWING APPLICATIONS FOR LICENSES AND REGISTRATIONS DURING THE YEAR 1898.

Result.	Granted. Do. Not Granted. Do. Granted. Do. Do. Do. Do. Do.
Places Registered.	Soap Boilers Cowshed and Dairy Gut Scraping Fish Curing Cowshed and Dairy Gut Scraping Cowshed and Dairy Gut Scraping Cowshed and Works Chemical Works
Premises.	Sharp Street Corner Cumberland Street and Fountain Road Marfleet Blanket Row West Dock Street 83, Sharp Street Clough Road, Stoneferry Clough Road, Stoneferry 101, Havelock Street Hill Street, Stoneferry
Name.	Frank Green Walker, Wallis & Co., Ltd. Wm. H. Bailey Louis Bischoff & Co. J. W. Langley Thomas Milner Carl Roemer C. J. Schultz James Harding J. H. Milestone

No. 26.-TABLE SHEWING SAMPLES TAKEN UNDER "FOOD AND DRUGS ACT," AND RESULTS.

Results.	Fined 50s. and costs. Fined 20s. and costs. Fined 20s. and costs. Fined 20s. and costs. Fined 10s. and costs. Fined 5s. and costs. Fined 5s. and costs. Withdrawn on payment of costs. Fined 20s. and costs. Fined 20s. and costs. Fined 20s. and costs.	Penalties £8 10s.
Prosecu- tions.	6 1:1:	11
Adulterated	9 1:1:	11
Pure.	155 15 14 6 6	196
No. of Samples.	164 16 14 7 6	207
Description of Sample.	Milk Coffee Butter Whiskey Malt Vinegar	Totals



No. 27.—TABLE SHEWING SANITARY PROSECUTIONS, 1898.

DATE.		Offence.	Result.	
189	98.			
March April May	18th 15th	Contraving Provisions of Canal Boats Acts Exposing for sale Herrings totally unfit for human food Carrying on Manufacture of Fish Manure without the consent of Sanitary Authority Establishing the trade of Gut Scraping without consent of Sanitary Authority Allowing Cabin to be used contrary to the provisions of Canal Boats Acts	Fined 10s. and costs. Fined 20s. and costs. Fined 50s. and costs. Fined £10 and costs. Fined 20s. and costs. Fined 10s. and costs.	
June	24th 24th 24th	Non-compliance with Notice to abate Nuisance Using Canal Boat as Dwelling-house without same being registered in pursuance of Act	Withdrawn on conviction being obtained against employer. Fined 20s. and costs. Ordered to pay costs (£1 5s. 6d.) Fined 10s. and costs.	
July Septembe October	8th r 23rd 14th 14th 14th 28th	Selling Milk adulterated with 10 % of added water Selling Coffee consisting of one part Chicory and one part Coffee Selling Milk adulterated with 6.59 % of added water Contravening Sec. 4 of Shop Hours Act, 1892	Dismissed on payment of costs. Fined 20s. and costs. Withdrawn on payment of costs. Fined 5s. and costs. Fined 10s. and costs. Fined 20s. and costs. Fined 20s. and costs. Fined 20s. and costs.	
December	9th	Do. do. 25·77°/, do. Selling Milk adulterated with 8·24°/, of added water Do. do. 7°/, do. Selling Whiskey reduced from 25 degrees under proof to 34·5 degrees under proof by the addition of 12·76°/, of water	Fined 50s. and costs. Fined 5s. and costs. Fined 5s. and costs. Fined 20s. and costs.	

ANNUAL REPORT OF THE INSPECTION AND REGISTRATION OF CANAL BOATS.

FOR THE YEAR END	ING I	РЕСЕМВ І	RR 31s	т, 189	98.
Boats inspected					2454
Additional inspections ma			n if no	tices	24.0
served had been com	plied v	vith			212
Total number	of ins	pections			2666
Boats in good order					2249
Contravening the Acts					205
					2454

The 2444 boats inspected during the year are registered to accommodate 14,283 adult persons, whilst only 5169 adults, of which 4105 were males and 1064 were females, and 1145 children, were found occupying the said boats.

PARTICULARS OF CON	TRA	AVENTION	s.
		Defects.	Remedied.
Not properly lettered and numbe	red	33	32
Absence of certificates		33	32
Requiring repairs:—			
Decks	28)	
Stoves	9		
Decks and stove	2		
Decks and cupboards	2		
Coal locker	2 1 1		
Cabin floor	1		
Cabin front	2		
Decks, locker and cup-		- 52	50
boards	1	52	30
Stove and berth	1		
Without proper berth	1		
Deck, chimney and cup-			
boards	1		
Deck, cupboards and			
floor	1		
To water casks	2	J	
Certificates not identifying own	ners		
or boats		36	35
Requiring renewal of paint		56	53
Change of master not notified		3	3
Carried forward		213	205

Duonaht formand	019	005
Brought forward	213	205
Not in a cleanly condition	6	6
Overcrowding	3	3
Not properly ventilated	4	4
Females over age	6	6
Accumulation of bilge water	1	1
Refusal of admittance to Inspector.		-
Carrying offensive cargoes without		
the requisite double bulkheads	4	4
Unregistered boats	7	7
Total	244	236
		-

In reference to the eight contraventions unremedied, notices have been sent either to the owners or masters, which I expect will shortly be complied with.

The seven contraventions existing when my last annual report was presented, have since been remedied.

Notices and letters issued during the year: -318.

In addition to the written notices or letters sent to the owners, the masters of all boats contravening the Acts have been verbally cautioned.

INFECTIOUS DISEASES.

WHOOPING COUGH.

On the 15th March, I inspected the canal boat "Dido," registered No. 359, Hull, owned by Mr. Richard Dunston of Thorne, on which a male child, aged one year, had died from whooping cough. The child sickened on the 7th March, and died on the 12th March. The boat was lying in the Humber Dock, and was occupied by the master, his wife, and one other child aged three years. The boat was in a good and cleanly condition. I fumigated the cabins, and a certificate of disinfection was granted by the Medical Officer of Health.

CHOLERAIC DIARRHEA.

On the 10th September, the Medical Officer of Health, accompanied by myself, inspected the canal boat "Charles and Zillah," registered No. 219, Doncaster, and owned by Mrs. Z. Oldfield, of Stockwith. The vessel arrived in the Albert Dock on the 10th September with a cargo of slag from Park Gate, Rotherham. Upon our inspection we found that the

master, John Tomlinson, aged 48 years, was suffering from Choleraic Diarrhea. The patient was immediately removed to the Hospital and the boat disinfected. The boat was in a good and cleanly condition, and was occupied by the master and his two sons, aged 17 and 5 years respectively.

TYPHOID FEVER.

On the 2nd November, the Deputy Medical Officer of Health, in company with myself, inspected the canal boat "Don," registered at Nottingham No. 107, and owned by the Trent Navigation Company, of Nottingham. The boat was lying in the Alexandra Dock, and upon our inspection we found one of the Master's sons, aged 16 years, to be suffering from Typhoid Fever. The patient was immediately removed to the Sanatorium, the cabins thoroughly fumigated and a certificate of disinfection granted by the Medical Officer of Health. The boat was in a good and cleanly condition, and was occupied by the Master and his two sons, aged 18 and 16 years respectively.

PRECAUTIONS AGAINST INFECTIOUS DISEASES.

Owing to the prevalence of Smallpox in the Goole district in the middle of the year, a special circular letter was prepared by the Medical Officer of Health and issued to the occupants of boats trading to and from that district.

Bills of precaution against infectious diseases have also been freely distributed amongst the canal boats trading to and from this city.

LEGAL PROCEEDINGS AT THE CITY POLICE COURT.

In three cases legal proceedings were deemed necessary during the year.

On March 17th, the master and owner of the canal boat "Friendship," registered No. 171, Goole, was fined 20s. and costs for allowing an adult female to occupy each cabin with a male over the age of 14 years, contrary to the provisions of the Acts, he having been previously cautioned about the same offence.

On June 21st, the master and owner of the canal boat "Onward," registered No. 61, Wombwell, was fined 10s. and costs for allowing an adult female to occupy the after-cabin with himself, she not being his wife. He had been previously cautioned about the same offence.

On June 28th, the master of the canal boat "Mail,' trading between Hull and Driffield, was fined 10s. and costs for using the boat as a dwelling, the same not having been registered.

REGISTRATION DEPARTMENT.

Total number of boats on t	the reg	ister	
December 31st, 1897			322
Registered during the year			26
			348
Cancelled during the year			13
Total number on register,	Decer	nber	
31st, 1898			335

Particulars of boats, the registration of which has been cancelled during the year:—

The Carte has a commission of the allies and		0
Unfit to be occupied as dwellings		2
Lost or broken up		4
Registered under the Merchant Ship	ping	
Act		3
Owing to structural alterations		1
Ceased to be used as dwellings,	and	
used only as lighters		2
Owing to change of ownership	and	
boat's name		1
		_
		13

Change of master on 67 boats, of ownership on 19 boats, and of boats' names in 3 cases, have been registered during the year.

Either from personal knowledge or correspondence, I am able to state that the 335 boats on the register at the end of the year are in actual use at the present time.

Within recent years a number of boats, regularly plying upon the canals of this district, and which were formerly registered under the Canal Boats Acts, also a considerable number of new boats designed and being used for canal traffic, and which are precisely the same in build and trade as those boats now under the operation of the Acts, have been registered under the Merchant Shipping Act, doubtless, in many cases, to evade the provisions of the Canal Boats Act.

As an illustration, a very striking case came under my notice during the year. The master, who is also owner, of the Canal Boat "Friendship," already referred to as having been fined on March 17th, for committing a breach of the Acts, was found by me, on November 9th, using his boat in contravention of the same section of the Act. When I informed him that if he persisted in ignoring the provisions of the Acts, I should report him to the Sanitary Committee, he in reply stated that he would register his boat with the Board of Trade, and pointed out that we should then be unable to interfere with him. This, I may say, he has since done.

There is a further number of boats which were formerly employed in the coasting trade, and are registered under the Merchant Shipping Act, which have ceased to be so used, and are now regularly trading upon the canals.

The total number of boats above referred to which are being ordinarily used for the conveyance of goods upon the canals of this district, without being registered under the Canal Boats Acts, is not less than 120, which number is gradually increasing.

Unless the power vested in the Local Government Board by virtue of Section 10 of the Canal Boats Act of 1884 be exercised, so as to make it absolutely necessary for all boats ordinarily used for the conveyance of goods upon any canal, to be registered under the Canal Boats Acts, notwithstanding such boats being registered under the Merchant Shipping Acts, the statutory benefits intended to be conferred upon the Canal Boats population will be lost in a considerable number of cases.

FACTORY AND WORKSHOP ACT, 1891 AND 1895. Shop Hours' Acts, 1892 to 1895.

GENERAL REMARKS.

During the year the calls upon your Inspector have been spread over a greater area than in the past, partly owing to the extension of the City boundary, and partly owing to the opening of workshops in the outlying districts, in consequence of which many of the shops in the City have not been visited during the year, and many of the workshops only once; nevertheless there is every reason to believe that the Acts have been generally well regarded.

Factories.

The principal part of the work done in factories has been in respect to sanitary accommodation and drainage, and in advising persons as to the sanitary adaptation of old buildings for factory purposes.

We have received five complaints from Her Majesty's Inspector of Factories in respect to insufficient sanitary accommodation, all of which have received attention, and the necessary additions and alterations have been made in each case.

Workshops.

A systematic inspection of workshops has been carried on through the year, and, generally speaking, there has been little difficulty in getting occupiers to comply with the sanitary regulations.

During the past year several workshops have been converted into factories by the installation of small gas engines or electrical motors. The latter offer a convenient motive power for light machinery, and has the double advantage of taking up little room and is free from the emission of offensive fumes usually emitted by gas and oil engines.

Fire Escapes.

The inspection of means of escape in case of fire in factories and workshops has been steadily carried on, and in all cases where new factories have been built our recommendations have been put into effect.

Up to the present time seven new factories have been furnished with fire escape certificates.

Bakehouses.

My remarks of last year in respect to bakehouses are applicable to the present time.

One occupier was prosecuted for allowing his bakehouse to be in such a state as to be unfit, on sanitary grounds, for occupation as such, and a fine was imposed, which had a salutory effect, and one insanitary bakehouse has been closed on the representation of the Medical Officer of Health to the owners and the occupier that the premises were unfit for use as a bakehouse.

Outworkers.

The inspection of outworkers' premises has been continued during the year with satisfactory results. A case of Scarlet Fever was discovered in a tailor's house where clothes were being made, the occupier of which refused to have the patient removed for isolation; therefore the work was stopped, and the goods in the course of manufacture were at once taken possession of and disinfected, and delivered to the employer as speedily as possible.

Shop Hours Acts.

The carrying out of these Acts has absorbed a large proportion of your Inspector's time.

The erection of shops in the outlying districts of the City, in almost all directions, has rendered it increasingly difficult for the Inspector to cover the ground under his charge.

The prosecutions you have authorized during the year have had a good effect as a deterrent against breaches of the Acts.

There has been but little improvement in the reduction of shop hours in the City. I am still of opinion that the Shop Hours Acts will not be as efficient as is desired until they are made to limit a day's work and provide for proper meal times.

on PROSECUTIONS INSTITUTED BY THE SHOP HOURS AND SANITARY INSPECTOR. Judgement respited Fined 10s. and costs. payment of costs. Fined 5s. and costs. Fined 5s. and costs. Fined 5s. and costs. Fined 5s. and costs. RESULT. Act, 1892 conspicuous place in Shop Employing a young person for a greater number of hours than is allowed by the Shop Hours 13th..... Employing a young person for a greater number of hours than is allowed by the Shop Hours November 29th..... Failing to keep the Notice required by the Shop Hours Acts, 1892 to 1895, exhibited in a do. do. OFFENCE. do. do. Act, 1892 Do. Do. February 22nd..... December 13th..... 22nd.... 22nd.... DATE. 1898. 6

FACTORY AND WORKSHOPS' ACTS, 1891 AND 1895. SHOP HOURS ACTS, 1892 TO 1895.

Tabulated Statement of Inspections, Result of Inspections, Notifications to H.M. Inspector, &c.

No.	177 35 299 299 299 6 6
No. Notifications to H.M. Inspector, &c.	Unregistered Workshops in which protected persons were found employed 177 Workshops where Abstract was not exhibited
No.	320 254 315 315 3 3 3 4 4 4 247 254 254 254 254 254 254 254 254 254 254
Results of Inspection.	Nuisances and Sanitary Defects Nuisances and Sanitary Defects amended Firms' places put in order thereby Closed Means of escape in case of fire required Escapes provided Transe of escape in case of fire required Shops in which notice was not properly exhibited (requested to comply) Shops exempt from the Act Shops in which there was excess of hours
No.	1680 91 167 22 87 1155 1570 81
Inspections.	Workshops 1680 Factories 91 Bakehouses 167 Laundries 22 Outworkers' premises 87 Visits to supervise work in progress, &c. 22 Shops visited 1570 Lists of Outworkers 81 Total inspections 4875

107

Detailed statement of Sanitary Conveniences provided.

Pri	VIES.	WATER	-CLOSETS.	INALS.	
New.	Repaired.	New.	Repaired.	New.	Repaired.
21	2	32	9	3	

Detailed statement of Drainage and Pavement work done.

Length of New Drains.	Number of Gullies and other Traps.	Area of New Pavement.
1003 feet.	47	2973 square feet.

SHOP HOURS ACTS, 1892 to 1895.

Number of Shops on the Register and number of Young Persons employed therein.

Number of Shops on the register in which young persons are employed	1924	
Number of young persons employed in the same	3004	

SUMMARY OF OFFENCES AGAINST THE SHOP HOURS ACTS DEALT WITH IN THE COMMITTEE.

Obstructing the Inspector.	Failing to keep the Notice exhibited.	Employing Young Persons for more than 74 hours per week.	Employing Young Persons in Work- shop and Shop on the same day over legal time.
-	4	11	1

OUT-WORKERS.

Trade.	Employers.	Outworkers.
Manufacturers of Wearing Apparel	104	452
Cabinet Makers and Upholsterers	6	10
Total	110	462

WORKSHOPS.

Table shewing the trades, number of workshops at present on the register, and number of each sex employed when first inspected.

TABULATED STATEMENT shewing the Sanitary Districts, Estimated Population, and work done during the year 1898.

	No. of Fever Pails supplied,	197	88	99	157	541
DISEASES	No. of Disinfections Medically Certified.	90	209	157	479	1178
DISE	No. of Pumigations.	301	331	331	200	1163
TOUS	No. of Removals.		80	62	91	321
NFECTIOUS	No. of Cases Investigated.	398	698	993	537	1797
12	No. of Cases Notified.	1199 1398	196	908	3161	4385 4797
K. P. S.	Xo, not in conformity with the Order.	:	:	1	:	
MILK	No. Inspected.	365	220	287	213	085
020	No. of Manure-yards, Inspected.	115	06	104	95	404 1085
	No. of Supervisions of Drainage and other Works in progress.	1991	767	652	480	850
DRAINAGE.	No. of New W.C.'s and New Drainage provided.	164 1	160	106	20	480 3850
DRA	No. of Choked Drains, Defective W.C.'s, Privies and Traps remedied.	548	545	520	475	880
- 00	No. of Honses, &c., Inspected.	1997	1556	1624	1727	791 2501 6904 2088
GENERAL	No. of Vulsances Abated.	715 1	6261	597 1	5631	201
GEN	No. of Notices Served.	202	420			791
	No. of Complaints Registered.	89	88	104	69	324 1
	INSPECTORS.	Assistant Inspector of Nuisances J. M. Scorrer Sanitary OfficerJ. A. Fraser " " " " R. Scott	Assistant Inspector of Nuisances A. W. Stanley Sanitary OfficerJ. Thompson ". J. O. Vaughan ". M. P. Garniss	Assistant Inspector of Nuisances R. Martin Sanitary OfficerJ. Wallis A. W. Chesterfield " H. B. McIntosh	Assistant Inspector of Nuisances A. Rowland Sanitary OfficerF. Stebbings	
	HSTIMATED POPULATION	57871	57701	62908	51407	229887
DISTRICT.		Myton, S., Newington, S. and part Humber, S.	Myton, N., part Sculcoates, W., Newington, N., Newland, W. and part Humber, N.	No. 3. Sculcoates, E., part Sculcoates, W., Newland, E. and part Humber, E.	No. 4. East of the River Hull 51407	Oity Total229887

No. 28.—TABLE SHEWING THE NUMBER OF ANIMALS LANDED AT THE CITADEL SITE DEPOT, FOR THE YEAR ENDING 1898.

			-							_		_					_		
	Total,	1	:	:	:	1	:	1	3	67	1	15	17	7	24				
Dead.	Pigs.	:	:	:	:	:	:	:	:	:	::	13	:	:	19	n.			
Total Landed Dead	Sheep.	1	:	:	:	1	:	-	က	C 7	:	:	:	:	က	o return	Do.	Do.	Do.
Total	Calves.	:	:	:	:	:	:	:	:	:	:	:	13	က	:	No			
	Beast.	:	:	:	:	:	:	:	:	:	1	C7	4	4	C7				
	Total.	3327	2395	2188	2115	10025	8827	13125	3997	5841	2497	8187	10835	13083	46853	65603	53485	72853	35596
	Pigs.	:	:	:	:	:	:	:	:	:	:	2634	:	1418	20921	16748	1954	2617	619
	Sheep.	1097	699	:	:	1766	:	6576	1366	773	:	:	98	250	16837	39512	42305	61108	23490
	Calves.	:	:	:	:	:	:	:	:	:	:	::	5816	5922	5204	5190	6833	7491	8410
	Beast.	2230	1726	2188	2115	8259	8827	6549	2631	8909	2497	5553	4939	5493	3891	4153	2887	1637	3017
	Quarter Ending	March 31st	June 30th	September 30th	December 31st	Total	Total, 1897	.,, 1896	.,, 1895	,, 1894	,, 1893	.,, 1892	1891	1890	1889	.,, 1888	1887	1886	.,, 1885

All the above 8259 Beast were from New York, U.S.A.

SANITARY DEPARTMENT.

Expenditure for the year, from April 1st, 1898, to March 31st, 1899.

	£	S	d
Nightsoil Collection	9820	5	8
New Carts and Repairs to Carts	1141	19	7
Destructor	949	9	10
Garrison Hospital	642	4	0
Sanatorium	3889	18	2
Disinfectants	486	8	0
Office and Departmental Expenses	824	12	4
Wages	1353	9	0
Mortuary	110	16	2
Printing and Stationery	164	1	4
Notification of Infectious Diseases Act	551	10	6
Special Sanitary Work	203	3	10

Total... £20137 18 5