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1896

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1896

MAP SHOWING INCIDENCE OF CERTAIN INFECTIOUS DISEASES IN PORTSMOUTH DURING THE YEAR 1896.



1896.



Borough of Portsmouth.

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*R E P O R T*

ON THE

Health of Portsmouth

FOR THE YEAR 1896,

BY

A. MEARNS FRASER, M.B., D.P.H.,

*Medical Officer of Health; Medical Officer of Health for the Port  
of Portsmouth; and Medical Officer to the Milton Infectious  
Diseases Hospital.*

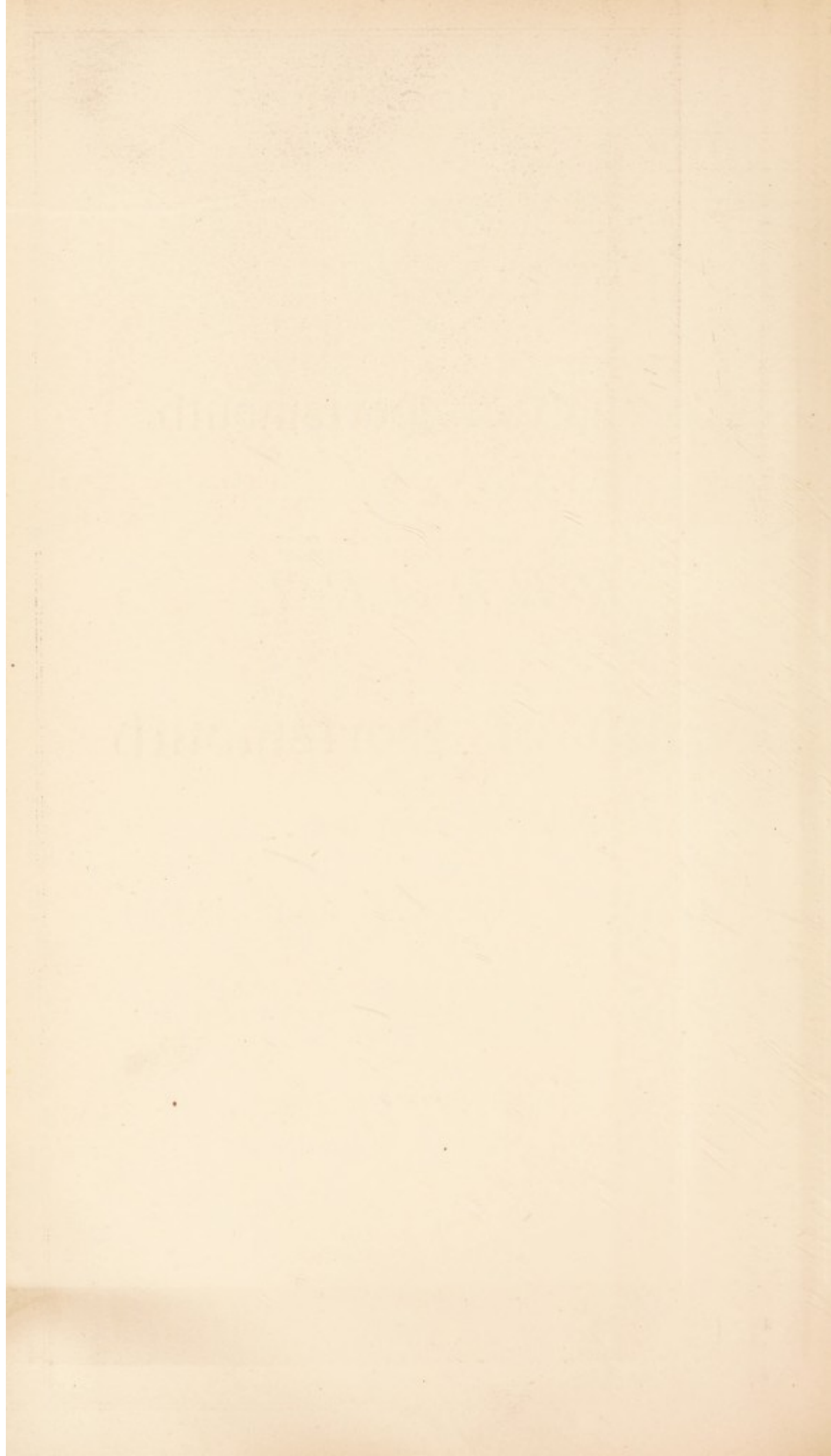
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J. MOORE MURRAY, M.Sc., F.C.S.

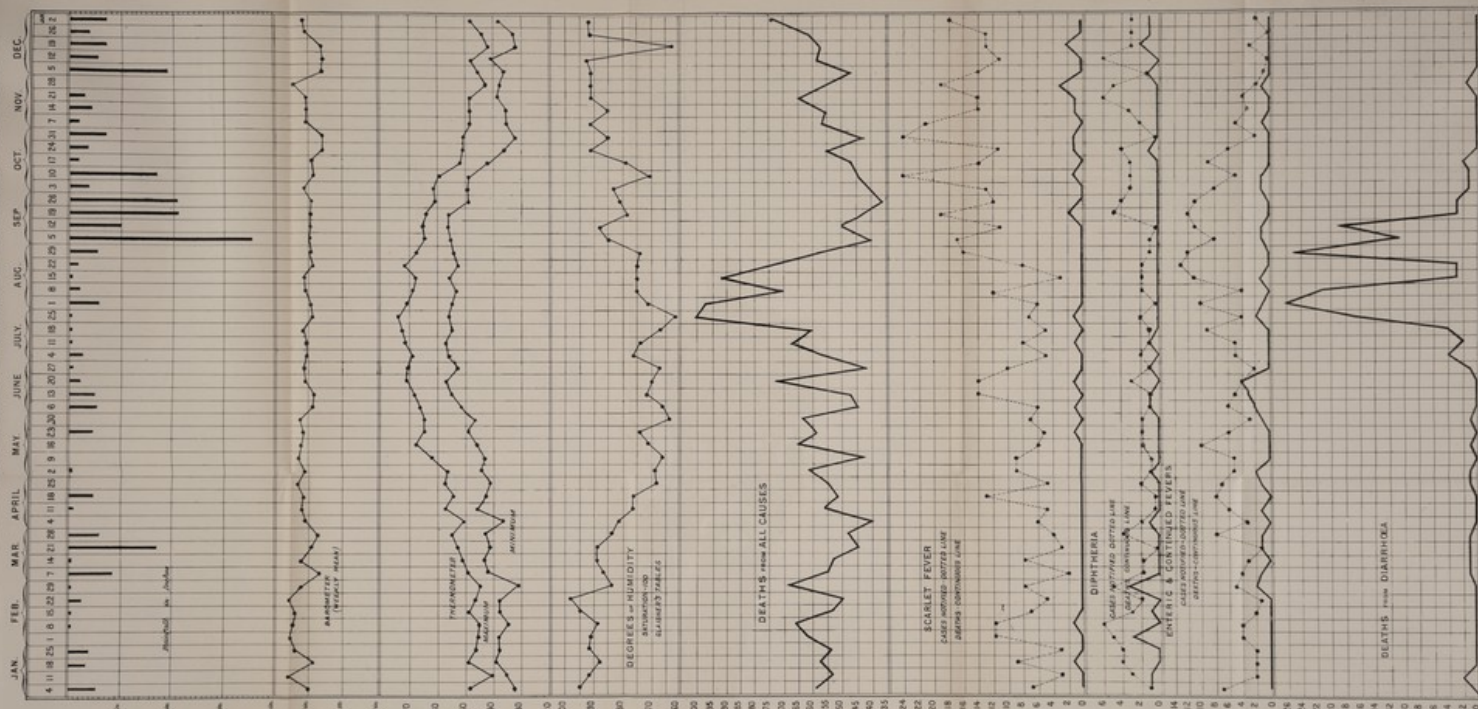
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Portsmouth:

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# METEOROLOGICAL AND DISEASE CHART FOR 1896.



9081 FOR TRAIL 1081

# ABSTRACT OF METEOROLOGICAL OBSERVATIONS made at Milton Hospital during the Year 1896.

DATE. — Week ending	Barometer reduced to sea level and 30 in. Hg.	TEMPERATURE.													WIND.										RAINFALL.						
		IN SHADE.													Number of Days.										Total.						
		IN SUN.													ON GRASS.										Mean of Earth below Ground.						
		Mean 9 a.m.	Mean Max.	Mean Min.	Mean of Max. and Min.	Mean Range	Highest Max.	Lowest Min.	Bk. bulb in vacuo Mean.	Bright b. in vacuo Mean.	Mean Min.	Lowest Min.	1 ft.	4 ft.	Mean 9 a.m.	Humidity. Mean, 9 a.m.	Total Sunshine registered by Jordan's Recorder	Cloud, Amount, 9 a.m.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	No. of Days 0.01 inch or more rainfall	Greatest fall in 24 hours.	Date of Greatest Fall.		
1896																															
Jan. 4...	30.069	46.5	49.0	43.1	47.4	5.9	52.5	37.5	62.5	52.7	41.8	38.0	45.2	47.1	46.1	95	2 40	91	...	1	1	...	1	4	...	...	0.40	3	0.31	Dec. 29	
" 11...	30.087	36.5	40.0	35.3	37.1	4.7	45.0	31.0	54.3	45.5	30.1	25.0	40.9	47.3	35.5	91	2 20	100	3	4	...	...	...	...	...	...	...	...	...	...	
" 18...	29.713	44.4	48.7	39.6	44.2	9.1	53.0	35.0	75.8	57.0	35.3	26.5	41.8	46.7	42.7	87	1 30	70	...	...	...	...	...	...	...	3	0.23	0.09	Jan. 13		
" 25...	30.283	41.1	45.9	36.9	41.4	9.0	50.0	32.0	71.3	51.1	32.1	24.5	42.2	46.5	40.0	92	10 50	70	...	3	1	...	1	...	...	...	0.40	4	0.32	" 25	
Feb. 1...	30.006	40.3	45.4	38.3	41.8	7.1	51.0	30.0	76.1	55.5	30.3	21.0	42.0	46.0	39.1	91	17 30	56	3	...	...	...	...	...	...	4	...	...	...	...	
" 8...	30.562	38.7	44.3	34.1	39.2	10.2	52.0	29.0	67.8	51.5	28.6	21.0	39.9	45.4	37.4	89	5 50	83	2	...	1	2	1	...	...	1	0.06	1	0.06	Feb. 8	
" 15...	30.442	42.4	49.4	39.8	44.6	9.6	53.0	37.0	80.5	59.5	37.3	32.5	44.1	45.3	42.1	95	11 40	80	...	2	3	...	...	1	1	...	0.04	2	0.02	" 9 & 12	
" 22...	30.583	40.3	46.5	37.5	42.0	9.0	52.0	30.5	82.7	58.5	35.9	28.0	43.4	46.0	39.1	93	10 35	90	...	3	1	1	1	...	...	1	0.21	3	0.13	" 20	
" 29...	30.252	37.1	44.8	30.5	37.7	14.3	56.0	24.0	91.4	60.9	26.5	19.0	39.8	45.7	35.6	84	35 30	30	...	4	1	...	...	...	...	1	0.02	1	0.02	" 29	
March 7...	29.553	44.5	49.9	42.2	46.1	7.7	52.0	38.0	94.1	64.6	36.7	32.0	43.6	45.3	43.6	87	17 50	70	...	...	...	...	6	1	...	0.88	7	0.26	Mar. 2		
" 14...	30.071	47.2	51.1	42.9	47.0	8.2	56.0	37.0	86.1	63.7	35.5	29.0	46.8	45.8	45.9	89	11 10	86	...	...	2	2	...	...	...	1	0.03	2	0.02	" 11	
" 21...	29.999	46.6	52.1	41.0	46.5	11.1	56.0	34.0	98.2	67.9	38.0	27.0	46.3	46.8	45.2	89	19 0	80	...	...	...	3	...	3	...	1	1.61	7	0.99	" 20	
" 28...	29.888	48.9	55.4	43.6	49.5	11.8	61.5	39.5	111.7	74.7	37.6	31.5	49.4	47.5	46.2	84	49 20	30	...	...	2	...	...	1	...	2	0.50	7	0.20	" 27	
April 4...	30.116	44.8	50.4	37.0	43.7	13.4	53.0	33.0	104.9	68.8	31.1	26.5	45.9	47.9	40.7	82	34 55	70	4	3	...	...	...	...	...	...	...	...	...	...	
" 11...	30.219	52.5	58.5	46.3	52.4	12.2	62.5	45.0	113.7	77.3	41.8	36.0	50.1	47.8	48.5	76	23 35	84	1	3	...	...	...	...	...	3	0.12	2	0.11	April 10	
" 18...	30.157	47.6	54.1	42.3	48.2	11.8	58.0	38.0	111.4	73.8	36.5	31.0	48.9	48.9	42.0	76	20 50	81	...	...	...	...	...	...	...	1	...	...	...	...	
" 25...	30.318	52.6	58.8	40.9	49.8	17.9	64.0	36.0	115.1	77.9	34.4	27.0	51.7	49.6	47.6	68	44 50	40	1	2	...	...	...	...	...	1	...	...	...	...	
May 2...	30.057	51.5	57.1	44.1	50.7	13.0	64.0	35.0	121.1	79.1	39.1	28.5	53.5	50.5	46.6	69	44 20	63	...	3	...	...	...	4	...	...	0.09	3	0.08	April 30	
" 9...	30.226	52.0	62.6	41.8	52.3	20.8	68.5	39.5	123.3	84.0	34.8	28.0	52.9	51.0	46.4	67	60 0	41	...	...	...	...	...	...	...	...	...	...	...	...	
" 16...	30.247	60.1	68.4	45.9	57.2	22.5	73.5	42.0	125.5	88.0	40.4	38.0	58.3	52.1	55.0	71	62 40	17	...	4	...	1	...	...	...	...	2	...	...	...	...
" 23...	30.100	56.2	64.1	49.6	56.8	14.5	68.0	39.0	121.8	85.1	43.4	33.0	58.0	53.6	51.9	74	42 35	80	2	1	...	2	...	1	...	1	0.45	2	0.30	May 22	
" 30...	30.265	57.7	65.1	47.5	56.3	17.6	69.0	44.0	125.7	87.0	42.4	38.0	58.6	54.1	51.1	64	61 45	44	...	7	...	...	...	...	...	...	...	...	...	...	
June 6...	29.881	63.5	67.8	51.0	59.4	16.8	71.5	44.0	129.5	86.2	43.8	35.5	63.9	55.4	57.1	65	73 15	34	...	...	3	1	2	1	...	0.52	3	0.40	June 4		
" 13...	29.744	62.1	69.1	55.6	62.3	13.5	77.0	53.5	128.5	89.2	53.6	49.0	63.8	57.1	58.3	72	44 15	63	...	1	...	1	3	...	2	0.57	4	0.30	" 9		
" 20...	30.018	66.4	70.8	57.4	64.9	13.4	81.0	54.0	132.6	93.4	52.0	45.0	68.2	58.3	60.6	70	60 55	50	...	...	...	1	3	1	...	0.18	1	0.18	" 17		
" 27...	30.134	63.3	70.1	52.4	61.3	17.7	74.0	48.0	131.0	92.0	44.7	40.0	66.2	59.9	57.4	67	49 50	60	1	1	...	...	3	...	2	0.08	2	0.07	" 25		
July 4...	30.054	62.3	69.9	58.4	63.1	13.5	77.5	53.0	126.6	89.6	49.5	42.0	64.5	60.0	56.9	72	43 31	76	...	...	...	...	...	1	2	4	0.24	4	0.09	" 28	
" 11...	30.066	66.8	71.8	56.9	64.3	14.9	75.5	52.0	133.1	94.0	50.8	44.0	69.1	60.5	60.8	69	58 0	34	...	...	...	...	...	...	...	...	...	...	...	...	
" 18...	30.157	64.8	72.6	54.8	63.7	17.8	79.0	49.5	129.9	93.4	48.5	41.5	69.2	61.9	58.6	67	55 0	40	...	2	...	2	1	...	...	2	0.03	1	0.03	July 16	
" 25...	29.971	68.3	74.4	59.0	65.2	18.4	81.5	50.0	122.6	95.3	46.6	41.0	70.7	62.7	60.8	61	59 0	30	...	...	...	1	...	5	...	1	0.02	1	0.02	" 25	
" 1...	29.913	63.4	70.3	54.0	65.8	16.3	72.0	48.0	122.1	91.3	47.9	39.5	66.3	63.0	58.4	72	48 5	47	...	3	...	...	...	3	...	1	0.58	3	0.55	" 26	
Aug. 8...	30.079	60.6	68.8	53.0	61.1	15.8	70.5	50.0	124.7	88.8	47.3	42.0	64.6	62.5	56.3	75	31 49	60	...	5	...	1	...	1	...	0.18	1	0.18	Aug. 8		
" 15...	30.116	63.6	72.0	56.0	64.0	16.0	78.0	51.0	126.3	90.9	48.3	42.0	64.0	62.3	59.1	75	38 56	60	...	...	...	...	2	...	2	0.035	2	0.02	" 9		
" 22...	29.849	60.8	68.2	52.1	60.1	16.1	71.0	48.5	123.5	87.4	41.0	39.0	63.5	62.0	56.6	75	41 15	50	...	1	...	1	...	...	...	...	...	...	...	...	
" 29...	29.866	59.9	67.3	53.9	60.6	13.4	76.0	46.5	119.3	85.9	49.1	40.0	57.4	61.5	56.6	75	31 0	80	...	1	...	1	...	3	1	0.56	3	0.30	" 25		
Sep. 5...	29.938	58.4	64.4	55.1	59.7	9.3	68.0	52.5	114.6	81.2	52.2	46.0	60.1	62.2	59.1	85	16 30	80	...	...	...	...	...	2	1	3	3.48	6	1.31	Sept. 2	
" 12...	29.763	61.3	65.5	56.3	60.9	9.2	69.5	52.0	107.8	80.3	51.2	46.0	61.7	60.4	59.3	88	15 10	80	...	...	2	1	...	3	1	...	0.995	5	0.46	" 11	
" 19...	29.746	61.0	64.0	56.5	60.2	7.5	66.0	49.5	110.0	78.9	52.1	42.5	61.4	60.5	57.4	79	24 10	80	...	...	...	...	...	6	1	...	2.18	6	1.04	" 13	
" 26...	29.576	56.2	60.8	49.6	55.2	11.2	63.0	41.0	109.6	76.7	45.5	35.5	57.4	59.9	52.4	81	27 45	73	...	...	...	...	...	1	1	5	2.145	5	1.16	" 25	
Oct. 3...	30.143	56.5	61.3	49.8	55.6	11.5	65.0	48.0	107.6	77.6	43.7	37.5	56.3	58.5	53.8	83	22 45	73	2	...	...	...	...	...	1	1	3	0.375	5	0.145	" 27
" 10...	29.706	57.1	59.5	49.7	54.6	9.8	61.5	46.0	102.1	72.7	44.3	39.5	55.8	57.8	52.1	70	26 20	80	...	...	...	...	...	3	...	3	1.833	7	0.95	Oct. 7	
" 17...	29.959	47.1	51.8	42.0	46.9	9.8	56.0	34.0	100.2	67.9	37.2	29.5	50.9	56.7	43.3	79	16 30	70	2	3	...	...	...	1	...	1	0.15	5	0.075	" 15	
" 24...	29.537	43.4	50.8	36.2	43.5	17.0	54.0	34.0	98.7	71.1	30.3	26.5	47.7	55.1	41.7	92	36 20	64	4	...	...	...	...	...	1	2	0.235	4	0.17	" 19	
" 31...	29.576	42.3	50.3	37.9	44.1	12.4	53.0	34.0	96.6	65.9	30.9	25.0	45.2	53.3	40.3	85	44 25	30	1	2	...	...	2	...	2	0.715	4	0.30	" 27		
Nov. 7...	30.078	39.3	47.8	34.8	41.3	13.0	50.0	27.0	102.6	61.8	Out of repair.	43.1	51.6	38.2	92	29 15	30</														



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# Drainage and Sanitary Committee.

(1895-6)

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THE WORSHIPFUL THE MAYOR, J. J. YOUNG, ESQ., J.P.

Chairman—

ALDERMAN SIR WILLIAM PINK, J.P., K.L.H.

Vice-Chairman—

ALDERMAN THOMAS KING, J.P.

---

ALDERMAN ROBERT BARNES, J.P.

COUNCILLOR	G. ASHDOWNE	COUNCILLOR	H. I. EVANS
"	J. BAGGS	"	J. W. GIEVE
"	T. E. BASKETT	"	H. KIMBER
"	H. BLESSLEY	"	J. MULVANY, L.R.C.P.
"	J. DUMMER	"	G. J. MERRITT
"	W. T. DUPREE	"	H. R. PINK
"	R. EMMETT, L.R.C.P.	"	G. YOUNG

Officers of the  
Medical Officer of Health's Department

Medical Officer of Health—

A. MEARNS FRASER, M.B., D.P.H.

Inspector of Nuisances—

F. L. BELL, CERT. SAN. INST.

Inspector C.D.A. Act, and Inspector of Nuisances—

G. W. MONKCOM

Clerk—

C. W. HEARN

Inspectors of Nuisances—

H. J. LOVELOCK, CERT. SAN. INST.

H. G. GRAY, CERT. SAN. INST.

W. H. TURNER, CERT. SAN. INST.

G. L. SCOTT, CERT. SAN. INST.

G. W. McQUINN, CERT. SAN. INST.

Inspector of Workshops and Inspector of Nuisances

W. E. BENJAMIN, CERT. SAN. INST.

Assistant Clerk—

T. V. SMITH

Disinfector—

A. AYLMER

---

Infectious Diseases Hospital.

Matron—

MRS. M. A. ANTRAM

Report  
of the  
Medical Officer of Health  
to the  
Urban Sanitary Authority  
of the  
Borough of Portsmouth

For the Year ending the 31st day of December, 1896.

GENTLEMEN,

I have the honour to submit to you my Annual Report for the year 1896, comprising the statistical returns of the Deaths in the Borough, the measures adopted for the prevention of disease, and the work done in the Sanitary Department.

I am pleased to be able to state that during this year the health of the town has been good, and that (with the exception of an outbreak of measles during the second and third quarters) there has been no serious epidemic of infectious disease ; also in the table of corrected death-rates of the large towns of England, prepared by the Registrar-General, Portsmouth occupies the fourth place, ranking after West Ham, Croydon, and Brighton.

During the past twelve months progress in the Sanitation of the Borough has been effected, and I trust that during 1897 still greater improvement may be accomplished—especially I trust that success will attend your efforts to improve House Drainage and the Disposal of Refuse.

I desire to express my sincere thanks for the kindness and courtesy I have at all times received from Members of the Sanitary Committee, and for their consideration during the time I was unfortunately confined to my house by an attack of scarlet fever. I also take this opportunity of expressing my appreciation of the careful and efficient manner in which their duties have been performed by the Sanitary Staff.

I have the honour to be, Gentlemen,

Your obedient Servant,

**A. MEARNS FRASER, M.B., D.P.H.,**

*Medical Officer of Health.*

## Statistics.

—:0:—

**POPULATION.**—The population of the Borough in the middle of 1896, estimated on the supposition that it has increased from 1891 at the same rate of increase as in the period 1881 to 1891, is 178,612. This estimate, in all probability, is considerably under the true population, which, I believe, will be found to be nearer 187,610—a number founded on a report supplied to me by Mr. Baxter, the Assistant Overseer, who reports the number of occupied houses to be 34,739, this is multiplied by 5·4, the average number of persons in each house in 1891. The figures 178,612, however, are those used by the Registrar-General, and I have therefore adopted them in my Report. At the same time, it is well to bear in mind that our death rates, birth rates and sickness rates being based on the smaller figures are represented (if my view is correct) a trifle higher than is actually the case.

The mean density of the population is 39·8 persons to the acre, an increase of 4·3 persons per acre since 1891. In the thirty-three large towns—including London—the average number of persons to an acre is 35·4. The populations of the various districts were as follows :—Portsmouth, 6,839 ; Portsea, 14,989 ; Kingston, 68,279 ; Landport, 71,363 ; Southsea, 17,169.

**BIRTHS.**—The number of Births registered was 5,006, being 138 in excess of those of the preceding year, and gives a birth rate per 1,000 of 28·03, which is slightly higher than that

of last year—27·84. The birth rate of the thirty-three large towns is 30·7. The illegitimate births numbered 190, which forms 3·8 per cent. of the total number registered; the mean percentage of illegitimate births for the past ten years is 3·3.

The births were reported in the four quarters as follows :

		Legitimate			Illegitimate	
		M	F		M	F
First quarter ending March 28th	—	579	593	—	35	25
Second „ „ June 27th	—	607	577	—	19	26
Third „ „ September 26th—	—	599	525	—	21	20
Fourth „ „ January 2nd	—	702	636	—	19	25
		— — — —			— —	
		2485	2331		94	96
		⏟			⏟	
		4816			190	

And in the various sub-districts thus :

Portsmouth	—	157	equal to a birth-rate of	23·95	per 1000.
Portsea	—	358	„ „ „ „	25·88	„ „
Kingston	—	2243	„ „ „ „	33·86	„ „
Landport	—	2078	„ „ „ „	29·11	„ „
Southsea	—	170	„ „ „ „	9·89	„ „

Portsea Island Union is situated in Kingston sub-district, in it there occurred 67 births.

**MARRIAGES.**—1,581 marriages took place during 1896, which thus numbers 149 more than in the previous year, and gives a marriage rate of 17·90, against that of 16·38 for 1895. Interest attaches itself to these figures from the fact that an increased marriage rate usually indicates an increase in the prosperity of a community. Marriages occurred in the four quarters as follows :

First quarter	—	276	Third quarter	—	422
Second „	—	405	Fourth „	—	478

**DEATHS.**—The deaths registered numbered 3,030, less by 99 than in the previous year, and the death-rate for the Borough is 16·96 ; this is slightly lower than that of the previous year, which was 17·90, and considerably lower than the death-rate for the thirty-three large towns of England, which is 20·45. On two occasions only has the recorded death-rate been lower than that of 1896, in 1889 and 1894, when it was respectively 16·71 and 15·16. In the table prepared by the Registrar-General of the thirty-three large towns, Portsmouth occupies the fourth place, the death-rates—as will be seen from Table III.—varying from 14·82 at Croydon, to 25·65 at Manchester.

**THE DEATH-RATES** for the four quarters of 1896 were as follows :

First quarter	—	15·98 per 1000
Second „	—	15·72 „
Third „	—	18·96 „
Fourth „	—	16·95 „

The increase in the death-rate during the third quarter was due to measles and the usual summer diarrhœa.

Comparing the death-rates from particular diseases, it will be seen that the death-rates in Portsmouth, from the principal Zymotic diseases, are lower than in the 33 large towns.

	Measles	Scarlet Fever	Diph- theria	Whooping Cough	Fever	Diarr- hœa	Infantile Mortality
Portsmouth	0·69	0·11	0·11	0·32	0·15	0·73	154
33 large towns	0·71	0·22	0·38	0·57	0·19	0·79	167

**THE ZYMOTIC DEATH-RATE** of the 33 large towns is 2·86, and in Portsmouth is 2·11. From the above table it will be seen that though the death-rates from Scarlet Fever, Diphtheria, and Whooping Cough are considerably below those of the 33 large towns, yet in Measles and Fever we are very little better ; but in considering the death-rate from Fever, it is gratifying to find that this, which is one of the most certain indicators of sanitary progress, has steadily declined from 13·8 in 1860, to 0·19 in 1896. This fact is one that must prove most encouraging to the Sanitary Authority, and at the same time urge them to the still further advancement of the health of the Borough.

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**TABLE I.**

Table, showing the Population, Marriages, Inhabited Houses, Births and Deaths,  
for the year 1896, and the ten preceding years.

GROSS NUMBERS.

Year	Estimated Population	No. of Inhabited Houses	Marriages	Registered Births	Correct No. of Deaths		
					Total all Ages	Under 1 Year	Under 5 Years
1896	178,612	34,739	1,581	5,006	3,030	785	1,156
1895	174,751	34,230	1,432	4,868	3,129	856	1,169
1894	170,973	31,377	1,462	4,709	2,593	611	967
1893	167,285	30,984	1,459	4,708	3,058	763	1,171
1892	163,667	30,305	1,464	4,563	3,026	719	1,068
1891	160,128	29,544	1,429	4,803	3,053	665	1,143
1890	156,667	28,875	1,318	4,881	2,847	648	941
1889	153,279	28,206	1,460	4,943	2,565	697	1,036
1888	149,966	27,539	1,358	4,976	2,614	671	988
1887	146,724	26,873	1,395	5,004	2,681	725	1,053
1886	143,552	26,204	1,471	4,918	3,257	885	1,461
Average ten years 1886-95	158,699	29,413	14,248	4,837	2,882	724	1,099

NOTES.

- 1.—Population at Census, 1891 ... 159,255
- 2.—Area in Acres ... 4,486
- 3.—Average number of persons in each house at Census ... 5.4
- 4.—Average number of persons per acre at Census ... 35.5

**TABLE II.**

Table, showing the Annual Birth Rate, Rate of Mortality, and Death Rates  
among Children for the year 1896 and 10 Years preceding.

Years	Birth Rate per 1000 of the Population	Annual Rate of Mortality per 1000 living from all causes.	Annual Rate of Mortality per 1000 living from 7 principal Zymotic Diseases.	Deaths of Children under 1 year Percentage of Total Deaths.	Percentage of Deaths of Children under 1 year to Registered Births	Deaths of Children under 5 years Percentage of Total Deaths.
1896	28.03	16.96	2.27	25.9	15.68	38.1
1895	27.84	17.90	2.31	27.3	17.6	37.5
1894	27.54	15.16	2.07	23.5	12.9	37.3
1893	28.14	18.28	3.09	24.9	16.4	38.3
1892	27.88	18.49	1.89	20.4	15.5	35.3
1891	29.90	19.06	2.49	21.7	13.8	37.4
1890	30.15	18.16	1.69	22.5	13.5	32.7
1889	31.25	16.71	1.95	27.1	14.1	40.3
1888	33.18	17.43	1.33	25.6	13.4	37.5
1887	34.10	18.27	2.24	27.0	14.3	39.2
1886	34.26	22.68	4.87	27.1	17.0	44.6
Average of 10 years 1886-1895	30.42	18.21	2.39	24.7	14.8	38.0

**TABLE III.**

Showing the Population, Birth Rates, Recorded Death Rates, Corrected Death Rates, Zymotic Rates and Deaths under 1 Year to 1,000 Births in the 33 large Towns for the Year 1896.

NAME OF TOWNS	Estimated Population middle of 1896.	PER 1,000 LIVING.			ZYMOTIC DEATH RATE								Deaths of Children under 1 year of age to 1,000 Births
		Birth Rate	Recorded Death Rate	Corrected Death Rate	Small Pox	Measles	Scarlet Fever	Diphtheria	Whooping Cough	Fever	Diarrhoea	Total	
33 Towns	10,846,971	30·7	18·91	20·45	0·00	0·71	0·22	0·38	0·57	0·19	0·79	2·86	167
32 Prov'nc'l T'wns	6,425,016	31·1	18·44	20·73	0·00	0·67	0·15	0·22	0·45	0·21	0·77	2·46	168
CROYDON .....	118,006	25·1	14·22	14·82	...	0·56	0·04	0·24	0·52	0·15	0·43	1·94	150
BRIGHTON .....	120,499	24·7	16·13	16·31	...	0·45	0·05	0·16	0·26	0·11	0·60	1·63	135
NORWICH .....	108,630	30·8	17·38	16·65	...	1·06	0·04	0·22	0·08	0·19	0·74	2·33	164
<b>PORTSMOUTH</b>	<b>178,639</b>	<b>27·6</b>	<b>16·57</b>	<b>16·94</b>	...	<b>0·69</b>	<b>0·11</b>	<b>0·11</b>	<b>0·32</b>	<b>0·15</b>	<b>0·73</b>	<b>2·11</b>	<b>154</b>
DERBY .....	101,770	28·0	15·65	17·26	...	0·33	0·11	0·10	0·52	0·20	0·65	1·91	151
WEST HAM.....	261,297	32·6	16·07	17·34	0·02	0·44	0·21	0·70	0·59	0·23	0·81	3·00	165
BRISTOL .....	230,623	27·6	16·90	17·66	0·02	0·61	0·25	0·16	0·26	0·08	0·52	1·90	142
LEICESTER .....	198,659	30·8	16·72	18·15	...	0·60	0·25	0·32	0·25	0·20	1·35	2·97	187
SWANSEA .....	98,645	30·5	16·85	18·41	0·02	0·06	0·04	0·10	0·56	0·15	0·25	1·18	161
CARDIFF.....	162,690	33·8	16·84	18·79	0·02	0·23	0·17	0·37	0·63	0·08	0·77	2·27	165
NOTTINGHAM.....	229,775	28·9	17·50	18·82	...	0·88	0·11	0·06	0·39	0·34	0·69	2·47	168
BRADFORD .....	228,809	25·5	16·51	18·90	0·00	0·46	0·10	0·07	0·45	0·12	0·38	1·58	143
BURNLEY .....	102,805	31·0	17·51	20·11	...	0·60	0·04	0·46	0·27	0·12	0·70	2·19	170
PLYMOUTH .....	90,276	28·8	19·57	19·02	...	1·04	0·03	0·14	0·19	0·07	0·83	2·30	178
HUDDERSFIELD...	100,463	20·5	16·47	19·15	...	0·27	0·19	0·21	0·54	0·13	0·26	1·60	166
HALIFAX .....	94,775	24·3	17·33	19·29	...	0·17	...	0·22	0·34	0·21	0·16	1·10	149
LONDON .....	4,421,955	30·2	18·58	19·80	0·00	0·82	0·21	0·60	0·65	0·14	0·72	3·14	161
HULL .....	220,844	31·9	18·91	19·86	...	1·16	0·25	0·23	0·50	0·28	0·90	3·32	173
BLACKBURN .....	129,459	27·7	17·87	20·07	...	0·31	0·07	0·08	0·36	0·26	0·74	1·82	171
BIRKENHEAD ...	109,343	31·7	19·19	21·10	...	1·04	0·29	0·20	0·53	0·23	0·68	2·91	177
NEWCASTLE .....	212,223	31·1	18·46	20·11	...	0·64	0·12	0·18	0·48	0·15	0·51	2·08	165
GATESHEAD .....	98,436	35·8	19·09	20·50	...	1·37	0·26	0·18	0·35	0·22	0·72	3·10	172
LEEDS .....	402,449	30·7	18·75	20·78	0·00	0·49	0·17	0·12	0·60	0·21	0·69	2·28	169
SUNDERLAND.....	140,386	34·2	19·82	20·80	...	1·00	0·19	0·06	0·53	0·37	0·85	3·00	158
WOLVERHAMPTON	86,530	34·4	19·95	20·88	...	0·10	0·24	0·60	0·35	0·41	1·41	3·11	184
SHEFFIELD.....	347,278	34·0	19·26	21·42	...	0·57	0·29	0·16	0·58	0·29	1·02	2·91	173
PRESTON.....	113,864	32·6	20·76	22·82	...	0·03	0·03	0·10	0·37	0·22	1·11	1·86	203
BIRMINGHAM.....	501,241	32·6	20·81	23·00	...	0·60	0·29	0·53	0·74	0·21	1·20	3·57	197
OLDHAN .....	143,442	27·2	20·27	23·22	...	1·15	0·38	0·24	0·36	0·16	0·62	2·91	184
BOLTON .....	120,380	31·3	20·73	23·49	...	0·05	0·33	0·11	0·83	0·39	1·09	2·80	168
LIVERPOOL.....	632,512	34·9	22·74	24·97	...	0·48	0·35	0·24	0·46	0·32	1·16	3·01	173
SALFORD .....	210,707	34·9	22·64	25·46	...	0·94	0·49	0·23	0·88	0·33	1·23	4·10	199
MANCHESTER.....	529,561	33·0	22·64	25·65	...	1·06	0·37	0·15	0·67	0·23	0·94	3·42	176

TABLE IV.

Deaths Registered at several groups of Ages from different classes of Diseases during the year (53 Weeks), 1896.

CAUSE OF DEATH.	AGES.												DISTRICTS.					Totals	
													Portsmouth	Portsea	Kingston	Landport	Southsea		
	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 60	60 to 65	65 to 75	75 to 85	85 and over							
Classes																			
I.—ZYMOTIC DISEASES	199	177	22	12	13	15	11	2	2	6	3	...	15	28	224	180	15	462	
II.—PARASITIC DISEASES	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	
III.—DIETIC DISEASES	...	...	...	...	...	4	1	1	...	1	...	...	...	...	5	2	...	8	
IV.—CONSTITUTIONAL DISEASES	63	37	46	63	74	74	70	27	33	35	21	...	15	46	251	188	43	543	
V.—DEVELOPMENTAL DISEASES	113	1	...	...	...	...	...	...	2	80	132	53	10	13	222	118	18	381	
VI.—LOCAL DISEASES	276	134	36	64	164	123	152	94	98	215	117	21	47	121	582	533	111	1394	
VII.—DEATHS FROM VIOLENCE	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
VIII.—DEATHS FROM ILL-DEFINED AND NOT SPECIFIED CAUSES	117	10	...	1	1	3	2	1	1	6	3	2	11	4	48	31	4	98	
TOTALS	785	371	108	148	160	234	249	130	142	349	278	76	99	288	1388	1112	203	3030	
Class I.																			
ZYMOTIC DISEASES—																			
Order 1.— <i>Miasmatic Diseases</i>																			
Measles	27	97	1	1	...	...	...	...	...	...	...	...	10	7	51	55	3	126	
Scarlet Fever	1	9	8	...	1	...	...	...	...	...	...	...	...	1	14	4	...	19	
Whooping Cough	24	36	...	...	...	...	...	...	...	...	...	...	2	4	23	29	2	60	
Diphtheria	...	15	4	...	1	...	...	...	...	...	...	...	...	3	13	4	...	20	
Continued Fever	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	1	
Enteric or Typhoid Fever	...	4	6	8	3	5	1	...	...	...	...	...	...	2	14	10	1	27	
Influenza	1	2	3	1	1	3	3	...	1	4	...	...	...	1	10	5	3	19	
Order 2.— <i>Diarrhoeal Diseases</i>																			
Diarrhoea, Dysentery	138	12	...	1	1	1	...	1	1	...	2	...	2	8	76	68	3	157	
Order 3.— <i>Malarial Diseases</i>																			
Remittent Fever	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	1	
Order 4.— <i>Veneral Diseases</i>																			
Syphilis	6	...	...	1	...	2	1	...	...	...	...	...	...	1	8	...	1	10	
Gonorrhoea, Stricture of Urethra	...	...	...	...	...	1	3	...	...	1	...	...	...	...	4	...	1	5	
Order 5.— <i>Septic Diseases</i>																			
Erysipelas	2	2	...	...	1	...	2	...	...	1	...	...	1	...	4	3	...	8	
Pyæmia, Septicæmia	...	...	...	...	2	...	...	1	...	...	1	...	...	1	3	...	...	4	
Puerperal Fever	...	...	...	...	3	...	...	...	...	...	...	...	...	...	2	2	1	5	



TABLE IV.—(Continued).

CAUSE OF DEATH	AGES.										DISTRICTS					Totals		
	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 60	60 to 65	65 to 75	75 to 85	85 and over	Portsmouth	Portsea	Kingston		Landport	Southsea
LOCAL DISEASES—Continued.																		
Insanity, General Paralysis of the Insane ...	...	...	...	1	...	2	...	2	...	1	...	...	...	...	6	...	...	6
Epilepsy ...	...	...	1	6	...	4	2	1	...	...	...	...	...	...	6	4	1	14
Convulsions ...	63	11	...	...	...	...	...	...	...	...	...	...	2	9	20	41	2	74
Laryngismus Stridulus (Spasm of Glottis) ...	4	...	1	...	...	...	...	...	...	...	...	...	...	2	1	2	...	5
Diseases Spinal Cord, Paraplegia																		
Paralysis, Agitans ...	2	...	2	...	1	1	5	...	2	2	1	...	1	1	10	2	2	16
Other Diseases of Nervous System	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	1
Order 2.—Diseases of Organs of Special Sense (e.g. of Ear, Eye, Nose) ...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	1
Order 3.—Diseases of Circulatory System—																		
Pericarditis ...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	1	1	...	2
Acute Endocarditis ...	...	...	1	1	...	...	6	2	...	...	4	1	...	1	1	...	...	2
Valvular Disease of Heart	...	...	1	5	6	...	...	...	5	6	...	...	1	3	24	5	4	37
Other Diseases of Heart	8	2	5	13	26	33	26	26	21	57	28	2	10	19	94	89	22	234
Aneurism ...	...	...	...	1	1	...	1	1	1	1	...	...	...	2	2	1	1	6
Embolism ...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	2	...	...	2
Other Diseases of Blood Vessels ...	2	...	...	...	...	...	2	1	...	...	...	...	1	...	2	1	1	5
Order 4.—Diseases of Respiratory System—																		
Laryngitis ...	...	1	2	1	...	...	...	1	...	...	...	...	1	1	3	...	...	5
Croup ...	1	3	...	...	...	...	...	...	...	...	...	...	...	...	2	2	...	4
Emphysema, Asthma...	...	...	1	...	...	1	2	1	2	7	...	...	1	1	5	6	2	15
Bronchitis ...	63	42	...	1	6	5	9	15	15	49	31	10	5	22	96	108	15	246
Pneumonia ...	14	11	2	7	10	15	12	5	2	8	6	...	2	5	36	42	7	92
Pleurisy ...	...	2	...	...	...	2	2	...	...	1	3	...	...	...	4	6	...	10
Other Diseases of Respiratory System ...	25	26	3	1	3	3	6	1	4	4	3	2	2	7	33	37	2	81
Order 5.—Diseases of Digestive System																		
Dentition ...	29	1	...	...	...	...	...	...	...	...	...	...	3	1	10	15	1	30





## SUMMARY OF TABLE IV.

CLASS.	DISEASES.			NUMBER OF DEATHS.
I.	ZYMOTIC DISEASES—			
	1.	Miasmatic Diseases	...	272
	2.	Diarrhoeal Diseases	...	157
	3.	Malarial Diseases	...	1
	4.	Zoogenous Diseases	...	—
	5.	Venereal Diseases	...	15
	6.	Sceptic Diseases	...	17
II.	PARASITIC DISEASES			1
III.	DIETIC DISEASES			8
IV.	CONSTITUTIONAL DISEASES			543
V.	DEVELOPMENTAL DISEASES			381
VI.	LOCAL DISEASES—			
	1.	Diseases of the Nervous System	...	329
	2.	„ Organs of Special Sense	...	1
	3.	„ Circulatory System	...	288
	4.	„ Respiratory System	...	453
	5.	„ Digestive System	...	197
	6.	„ Lymphatic System	...	—
	7.	„ Gland-like Organs of Uncertain Use	...	2
	8.	„ Urinary System	...	102
	9.	„ Reproductive System—		
		(a) Organs of Generation	...	1
		(b) Parturition	...	9
	10.	„ Bones and Joints	...	10
	11.	„ Integumentary System	...	1
VII.	VIOLENCE—			
	1.	Accident or Negligence	...	77
	2.	Homicide	...	2
	3.	Suicide	...	19
VIII.	ILL-DEFINED AND NOT SPECIFIED CAUSES			143

TABLE V.

Deaths Registered at several groups of Ages from different Classes of Diseases during the Quarter ending March 28th, 1896.

CAUSE OF DEATH.	AGES										DISTRICTS.					Totals		
	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 60	60 to 65	65 to 75	75 to 85	85 and over	Portsmouth	Portsea	Kingston		Land-port	South-sea
Class I. ZYMOTIC DISEASES—																		
Order 1— <i>Miasmatic Diseases</i> —																		
Scarlet Fever ...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	2
Whooping Cough ...	16	14	...	...	...	...	...	...	...	...	...	...	...	3	13	12	1	30
Diphtheria ...	...	6	3	...	...	...	...	...	...	...	...	...	...	...	8	1	...	9
Continued Fever ...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	1
Typhoid Fever ...	...	1	1	...	...	1	1	...	...	...	...	...	...	1	1	2	...	4
Influenza ...	1	...	2	...	...	1	1	...	1	...	...	...	...	...	3	2	1	6
Order 2— <i>Diarrheal Diseases</i> —																		
Diarrhoea, Dysentery ...	4	1	...	...	...	...	...	...	1	...	...	...	...	...	3	2	1	6
Order 3— <i>Malarial Diseases</i> —																		
Remittent Fever ...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	1
Order 5— <i>Veneral Diseases</i> —																		
Syphilis ...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	1
Gonorrhoea, Stricture of Urethra ...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	1
Order 6— <i>Septic Diseases</i> —																		
Erysipelas ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	3
Puerperal Fever ...	...	...	...	...	...	...	2	...	...	1	...	...	...	...	1	...	...	1
II.—PARASITIC DISEASES ...	1	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	1
III.—DIETIC DISEASES ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV.—CONSTITUTIONAL DISEASES ...	9	10	16	16	15	13	10	7	8	6	8	...	...	14	47	45	11	118
V.—DEVELOPMENTAL DISEASES ...	33	...	...	...	...	...	...	...	1	20	45	18	7	3	71	32	4	117
VI.—LOCAL DISEASES ...	69	43	7	18	15	32	31	24	31	55	30	12	12	20	165	140	31	367
VII.—DEATHS FROM VIOLENCE ...	8	2	1	4	...	3	4	...	...	1	1	...	2	...	10	17	1	24
VIII.—NOT SPECIFIED OR ILL-DEFINED ...	27	1	...	...	...	2	...	1	...	1	...	...	1	1	17	10	3	32
TOTALS ...	168	80	30	38	30	54	52	32	42	84	84	30	24	42	348	257	53	724

TABLE VI.

Deaths Registered at several groups of Ages from different Classes of Diseases during the Quarter ending June 27th, 1896.

CAUSE OF DEATH.	AGES.										DISTRICTS.					Totals		
	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 60	60 to 65	65 to 75	75 to 85	85 and over	Portsmouth	Portsea	Kingston		Landport	Southsea
<b>Class I.</b>																		
<b>ZYMOTIC DISEASES—</b>																		
<i>Order 1—Miasmatic Diseases</i>																		
Measles ...	13	35	1	...	...	...	...	...	...	...	...	...	10	2	12	23	2	49
Scarlet Fever ...	1	7	3	...	...	...	...	...	...	...	...	...	...	...	4	3	1	4
Whooping Cough ...	2	1	...	...	...	...	...	...	...	...	...	...	...	...	5	1	...	9
Diphtheria...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Typhoid Fever ...	...	1	3	2	...	...	...	...	...	...	...	...	...	1	3	2	...	6
Influenza ...	...	...	1	1	...	2	...	...	...	1	...	...	...	...	4	...	1	5
<i>Order 2—Diarrhoeal Diseases</i>																		
Diarrhoea, Dysentery ...	3	1	...	...	...	...	...	...	...	...	...	...	1	2	1	1	...	5
<i>Order 5—Venereal Diseases</i>																		
Syphilis ...	2	...	...	1	...	...	...	...	...	...	...	...	...	1	1	...	1	3
Gonorrhoea, Stricture of Urethra ...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	2	...	...	2
<i>Order 6—Septic Diseases</i>																		
Erysipelas ...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	1
Pyæmia, Septicæmia ...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	1	...	...	2
Puerperal Fever ...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	1
<b>II.—PARASITIC DISEASES</b> ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>III.—DIETIC DISEASES</b> ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>IV.—CONSTITUTIONAL DISEASES</b> ...	19	7	12	14	23	17	24	6	8	15	6	...	5	11	76	46	13	151
<b>V.—DEVELOPMENTAL DISEASES</b> ...	27	1	...	...	...	...	...	1	18	18	23	8	2	3	46	19	3	73
<b>VI.—LOCAL DISEASES</b> ...	56	38	8	20	21	32	38	27	20	3	23	...	10	30	118	149	29	336
<b>VII.—DEATHS FROM VIOLENCE</b> ...	3	3	1	2	1	2	2	2	1	...	1	...	3	2	7	6	...	18
<b>VIII.—NOT SPECIFIED OR ILL-DEFINED</b>	24	1	...	1	1	...	1	...	1	3	...	...	...	4	13	14	1	32
TOTALS ...	150	95	29	41	49	55	68	37	31	90	49	8	31	57	296	266	52	702

TABLE VII.

Deaths Registered at several groups of Ages from different Classes of Diseases during the Quarter ending September 28th, 1896.

CAUSE OF DEATH.		AGES.										DISTRICTS.					Totals			
		0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 60	60 to 65	65 to 75	75 to 85	85 and over	Portsmouth	Portsea	Kingston		Landport	Southsea	
I.	ZYMOTIC DISEASES																			
	Order 1— <i>Miasmatic Diseases</i>																			
	Measles ...	12	57	...	1	...	...	...	...	...	...	...	...	...	...	1	38	30	1	70
	Scarlet Fever ...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	2	1	...	3
	Whooping Cough ...	5	10	...	...	...	...	...	...	...	...	...	...	...	...	1	3	11	...	15
	Diphtheria ...	...	2	1	...	1	...	...	...	...	...	...	...	...	...	2	2	...	...	4
	Typhoid Fever ...	...	2	2	4	3	...	...	...	...	...	...	...	...	...	...	7	5	1	13
	Influenza ...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	1	2
	Order 2— <i>Diarrhoeal Diseases</i>																			
	Diarrhoea, Dysentery...	127	10	...	1	...	...	...	1	...	...	2	...	1	5	70	63	2	141	
	Order 5— <i>Veneral Diseases</i>																			
	Syphilis ...	3	...	...	...	...	2	...	...	...	...	...	...	...	...	...	5	...	...	5
	Gonorrhoea ...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	
	Order 6— <i>Septic Diseases</i>																			
	Erysipelas ...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1
	Pyæmia, Septicæmia ...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	2	...	...	...	2
	Puerperal Fever ...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	1	1	...	...	2
	PARASITIC DISEASES	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	DIETIC DISEASES	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...	3
	CONSTITUTIONAL DISEASES	...	22	14	...	...	17	20	6	7	5	...	...	...	...	4	12	63	48	134
	DEVELOPMENTAL DISEASES	...	26	...	...	...	...	...	...	...	10	24	12	12	1	4	39	24	4	72
	LOCAL DISEASES	...	74	30	10	12	23	31	21	21	43	28	2	9	33	127	116	24	309	
	DEATHS FROM VIOLENCE	...	...	3	2	1	4	5	2	3	...	...	2	4	1	16	5	...	...	26
	NOT SPECIFIED OR ILL-DEFINED...	...	39	1	...	...	1	1	...	...	2	...	...	...	6	16	18	4	44	
	TOTALS	308	134	25	37	38	52	57	32	32	62	54	16	19	65	390	328	45	847	

TABLE VIII.

Deaths Registered at several Ages from different classes of Diseases during the Quarter ending January 3rd, 1896.

CAUSE OF DEATH.	AGES.										DISTRICTS.					Totals			
	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 60	60 to 65	65 to 75	75 to 85	85 and over	Portsmouth	Portsea	Kingston		Landport	Southsea	
Class I.																			
ZYMOTIC DISEASES—																			
Order 1.—Miasmatic Diseases																			
Measles ...	2	5	...	...	...	...	...	...	...	...	...	...	...	4	1	2	2	...	7
Scarlet Fever ...	...	4	5	...	1	...	...	...	...	...	...	...	...	1	6	3	3	...	10
Whooping Cough ...	1	5	...	...	...	...	...	...	...	...	...	...	1	...	2	3	3	...	6
Diphtheria ...	...	6	...	...	...	...	...	...	...	...	...	...	...	1	3	2	2	...	6
Enteric or Typhoid Fever ...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	3	1	2	...	4
Influenza ...	...	1	...	...	1	...	...	...	...	3	...	...	...	1	3	2	2	...	6
Order 2.—Diarrhoeal Diseases																			
Diarrhoea, Dysentery ...	4	...	...	...	1	...	...	...	...	...	...	...	...	1	2	2	2	...	5
Order 5.—Venereal Diseases																			
Syphilis ...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Gonorrhoea ...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	1
Order 6.—Septic Diseases																			
Erysipelas ...	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...	3
Puerperal Fever ...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	1
II.—PARASITIC DISEASES ...																			
III.—DIETIC DISEASES ...																			
IV.—CONSTITUTIONAL DISEASES	13	6	10	15	23	24	22	7	8	6	6	...	...	9	65	49	12	140	
V.—DEVELOPMENTAL DISEASES	27	...	...	...	...	...	...	...	...	32	45	15	...	3	71	38	7	119	
VI.—LOCAL DISEASES	77	23	11	14	16	36	53	20	26	65	34	7	17	38	172	128	27	382	
VII.—DEATHS FROM VIOLENCE	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
VIII.—NOT SPECIFIED OR ILL-DEFINED	5	4	...	1	3	6	2	1	2	5	1	...	2	1	15	9	3	30	
...	27	7	...	...	...	...	...	...	...	...	1	...	...	5	9	18	3	35	
TOTALS	159	62	26	32	45	70	79	28	36	111	87	22	25	64	354	261	53	757	

**TABLE IX.**

Table showing the Numbers and Death Rates per 1000 of Population from the Seven Principal Zymotic Diseases, from Lung Diseases (excluding Phthisis), from Phthisis, and from all causes, during each Quarter of the Year 1896, and for the whole Year 1896.

	The Seven Principal Zymotic Diseases.		Lung Diseases (excluding Phthisis).		Phthisis.		From all Causes.	
	Num-ber.	Rate per 1000	Num-ber.	Rate per 1000	Num-ber.	Rate per 1000	Num-ber.	Rate per 1000
Quarter ending March 28 ... ..	52	1·16	140	3·13	63	1·41	724	15·98
Quarter ending June 27 ... ..	774	1·56	97	2·17	80	1·79	702	15·72
Quarter ending Sept. 26 ... ..	246	5·50	68	1·52	57	1·27	847	18·96
Quarter ending January 3 ... ..	38	0·85	139	3·11	83	1·85	757	16·95
THE YEAR 1896 ... ..	410	2·27	444	2·48	283	1·58	3030	16·96

## TABLE X.

Showing the Death Rates per 10,000 persons living, from the Seven Zymotic Diseases for each of the three decennial periods : 1851-1860, 1861-1870, and 1871-1880, and for the three quinquennial periods : 1881-1885, 1886-1890, 1891-1895, and for the Year 1896.

	1851 to 1860	1861 to 1870	1871 to 1880	1881 to 1885	1886 to 1890	1891 to 1895	Year 1896
Deaths from all Causes	228	211·9	198·8	194·9	186·5	177·57	169·62
Zymotic Diseases ...	49·0	43·6	37·2	29·40	25·69	23·71	22·87
Small Pox ...	4·6	2·4	5·0	0·00	0·07	0·04	—
Measles ...	4·1	4·0	4·0	5·20	3·64	6·68	7·05
Scarlet Fever ...	8·8	8·3	5·5	1·46	1·20	0·95	1·06
Diphtheria ...	0·6	1·5	1·0	6·38	2·90	1·55	1·12
Whooping Cough ...	4·8	3·6	4·1	3·18	4·26	3·12	3·35
Fever ...	13·8	8·8	7·4	6·02	4·06	2·33	1·51
Diarrhœa and ...	13·1	13·1	10·1	7·14	9·58	8·91	8·78
Cholera ...	—	0·9	0·2	—	—	—	—
Consumption ...	28·1	25·5	21·9	21·10	19·35	15·45	15·84

**TABLE XI.**

Showing the number of Deaths from all ages from certain groups of diseases, and proportions of deaths of 1000 of Population and to 1000 deaths from all causes.

Infants under one year of age from other groups of diseases, and proportions to 1000 Births, and to 1000 Deaths from all causes under one year.

**DIVISION I.**

Diseases.	Total Deaths.	Deaths per 1000 of Population at all ages.	Proportion of Deaths to 1000 Deaths
1.—Principal Zymotic Diseases ...	410	2.29	135
2.—Pulmonary Diseases (exclud- ing Consumption) ...	453	2.36	139
3.—Principal Tubercular Diseases	343	1.92	103

**DIVISION II.**

Infants under 1 year	Total Deaths	Deaths per 1000 Births	Deaths per 1000 of Total Deaths under 1 year
4.—Wasting Diseases ...	235	46.9	300
5.—Convulsive Diseases ...	155	30.9	157

**NOTES.**

- (1) Includes Small Pox, Measles, Scarlet Fever, Diphtheria, Whooping Cough, Typhoid or Enteric Fever, Continued Fever, and Diarrhœa.
- (3) Includes Phthisis (or Consumption), Scrofula, Tuberculosis, Rickets, and Tabes Mesenterica.
- (4) Includes Marasmus, Atrophy, Want of Breast Milk, and Premature Birth.
- (5) Includes Hydrocephalus, Infantile Meningitis, Convulsions and Teething.

# TABLE XII.

Showing the number of Deaths in the Years 1861 to 1895 from the Seven principal Zymotic Diseases, and the Number in 1896.

YEAR	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	Annual Average of 10 years 1886-95	1896	
POPULATION	95,220	96,960	98,731	100,531	102,363	104,230	106,130	108,064	110,034	112,040	114,083	116,162	118,280	120,436	122,632	124,867	127,144	129,461	131,821	134,235	128,332	129,872	134,441	137,412	140,448	143,552	146,724	149,966	153,279	156,667	160,128	163,667	167,285	170,973	174,751	158,699	178,612	
DISEASES																																						
Small Pox	1	..	12	228	3	1	..	..	1	1	39	514	45	2	..	1	..	..	..	..	..	..	1	..	..	1	3	..	2	..	..	..	..	4	..	10	..	
Measles	3	42	80	6	14	16	82	46	57	39	42	52	16	56	54	109	12	36	10	42	7	156	10	164	7	197	8	50	8	4	223	38	120	139	39	82	126	
Scarlet Fever	5	226	134	17	20	34	15	107	295	119	30	5	12	36	47	457	36	16	11	9	25	40	16	9	5	18	26	12	11	19	9	18	32	14	7	16	19	
Diphtheria	9	20	24	17	7	26	4	18	18	13	10	21	15	19	18	11	5	1	4	20	205	106	20	41	42	65	47	17	33	47	23	38	26	29	34	18	33	20
Whooping Cough	11	36	16	48	50	46	23	57	26	46	66	17	19	104	8	42	59	92	9	48	66	36	54	9	44	102	41	26	92	39	38	87	36	41	64	56	60	
Fever	111	128	57	72	74	85	74	119	105	91	72	112	97	101	103	71	87	96	62	70	60	107	93	58	93	124	53	27	32	50	33	42	54	29	37	48	28	
Diarrhoea	152	71	68	118	122	119	140	179	100	121	107	113	106	149	141	131	153	170	73	192	73	111	80	116	123	191	151	98	122	105	73	99	247	93	238	141	157	
Totals	292	523	391	498	317	330	338	526	602	430	366	834	310	470	371	822	322	411	169	381	436	556	274	397	314	698	329	230	300	265	399	310	518	354	403	380	410	

**TABLE XIII.**

Table showing the Death Rates per 1,000 Inhabitants from the chief Zymotic Diseases, Consumption and Diseases of the Lungs, in the Sub-Districts, and in the whole Borough. Deaths from Zymotic Diseases occurring in Public Institutions, are entered in the Districts from which the patients who died were removed. Deaths from the other diseases occurring in Public Institutions, are distributed to the various Sub-Districts in accordance with the population for the year 1896 ; and also the means of the ten years 1886-1895 for the whole Borough.

DISEASES			Ports- mouth	Port- sea	King- ston	Land- port	South- sea	Whole Boro.	Means of 10 years
Small Pox	...	...	—	—	—	—	—	—	0·00
Measles	...	...	1·46	0·46	0·74	0·77	0·17	0·70	0·52
Scarlet Fever	...	...	0·14	0·06	0·10	0·14	—	0·10	0·11
Diphtheria	...	...	0·14	0·20	0·17	0·05	—	0·11	0·22
Whooping Cough...	...	...	0·29	0·26	0·33	0·40	0·11	0·33	0·37
Fever	...	...	—	0·20	0·13	0·21	0·05	0·15	0·32
Diarrhoea	...	...	0·29	0·53	1·11	0·95	0·17	0·87	0·92
Principal Zymotic Diseases	...	...	2·32	1·71	2·58	2·52	0·50	2·26	2·46
Consumption	...	...	1·02	1·60	1·56	1·70	1·32	1·58	1·74
Other Tubercular Diseases	...	...	0·58	0·53	0·23	0·29	0·11	0·29	0·55
Lung Diseases	...	...	1·60	2·33	2·54	2·91	1·65	2·53	3·23
FROM ALL CAUSES	...	...	14·47	15·21	20·33	15·68	11·82	16·96	18·21

**TABLE XIV.**

VACCINATION. Return for the Period, January—June, 1896.

DISTRICTS	No. of Births returned in Birth List Sheets so registered from 1st Jan. to 30th June, 1896	No. of those Births duly entered by 31st Jan., 1897, in columns 10, 11, and 13 of the Vaccination Register ("Birth List Sheets"), viz:				No. of these Births which on the 31st Jan., 1897, remained un-entered in the Vaccination Register on account of			No. of these Births remaining
		10 Successfully Vaccinated	11 Insuspectable of Vaccination	Had Small Pox	13 Dead unvaccinated	Postpone-ment by Med. Cert.	Removed to Districts the Vacc. Officer of which has been apprized	Removed to Places un-known, &c.	
Kingston ...	1092	948	3	—	101	26	9	4	1
Portsea ...	168	146	1	—	17	2	—	2	—
Portsmouth ...	143	122	1	—	13	—	2	3	2
Landport ...	1031	878	14	—	107	17	11	2	2
Totals ...	2434	2094	19	—	238	45	22	11	5
VACCINATION OF CHILDREN whose Births were Registered in this District from Jan. 1st to Dec. 31st, 1895, inclusive									
Kingston ...	2152	1839	13	—	243	13	10	31	3
Portsea ...	338	278	3	—	46	2	6	2	1
Portsmouth ...	254	221	2	—	22	2	3	4	—
Landport ...	2152	1845	11	—	236	14	9	32	5
Totals ...	4896	4183	29	—	547	31	28	69	9

**SMALL POX.**—Five cases of small pox occurred in the early part of the year, these were at once removed to Milton Hospital with another case that showed suspicious symptoms, but fortunately did not develop the disease. These cases all came from Chichester, and owing to the prompt measures taken to prevent the disease spreading, no further case occurred in Portsmouth. On removal to hospital, they all recovered. By referring to Table xiv., it will be seen that very few children escape vaccination, and as long as we have a "vaccinated population," small pox will, in all probability, never run riot in the town.

**SCARLET FEVER.**—The cases notified numbered 524, of which 19 were fatal, the disease in the majority of cases was of a benignant type, but slightly less so than in the preceding year. The number of cases admitted to the Milton Hospital was 352, of which 11 proved fatal, giving a case mortality of 3·15, the number treated at home was 172, out of which 8 proved fatal, giving a case mortality of 4·65. The majority of the cases, 469, occurred in the Landport and Kingston districts, those in Southsea numbering only 24.

In 142 cases, or 27·10 per cent., sanitary defects were found in the premises upon which scarlet fever was reported to exist.

**TABLE XV.**

Table showing the number of cases of **Scarlet Fever** notified, the number of deaths, and the percentage of deaths to cases notified for the years 1884-1896.

Year.	Cases notified.	No. of Deaths.	Percentage of deaths to notified cases.
1884	266	9	3.38
1885	314	5	1.59
1886	343	18	5.24
1887	647	26	4.02
1888	465	12	2.58
1889	728	11	1.51
1890	573	19	3.31
1891	326	9	2.76
1892	1023	18	1.76
1893	1176	32	2.73
1894	458	14	3.06
1895	311	7	2.25
1896	524	19	3.62
Totals	7148	199	2.78

Table showing the number of cases of **Scarlet Fever** admitted to the Milton Hospital, the number of deaths, and the percentage of deaths to number of cases of Scarlet Fever admitted for the years 1884-96.

Year.	Cases admitted.	No. of Deaths.	Percentage of deaths to cases admitted.
1884	13	...	...
1885	16	...	...
1886	29	...	...
1887	56	1	1.78
1888	120	1	0.88
1889	278	1	0.36
1890	384	11	2.86
1891	180	3	1.66
1892	532	6	1.10
1893	503	6	1.19
1894	238	8	3.36
1895	177	2	1.13
1896	352	11	3.15
Totals	2878	50	1.74

**DIPHTHERIA.**—One hundred and twenty-four cases of Diphtheria were notified during the year, this represents an attack rate of 0·69 per 1000 of the population, and is the lowest point the prevalence of Diphtheria has yet reached in Portsmouth since 1884, when the notification of infectious diseases came into force. Twenty of the cases proved fatal : this gives a death-rate from diphtheria of 0·11 per 1000 ; the death-rate per 1000 of the 33 large towns during the same time was 0·38.

Forty-one, or thirty-three per cent of the cases notified, were admitted to Milton Hospital.

Sanitary defects were found on fifty-six, or 45·16 per cent of the premises in which diphtheria was reported to exist.

### **TABLE XVI.**

Table showing the number of cases of **Diphtheria** notified, the number of Deaths and the percentage of Deaths to cases notified for the Years 1884 to 1896.

Year	Cases notified	No. of Deaths	Percentage of Deaths to cases notified
1884	174	41	23·44
1885	173	42	24·25
1886	232	65	26·72
1887	260	47	19·08
1888	128	17	13·28
1889	126	33	26·19
1890	212	47	22·69
1891	140	23	16·42
1892	121	26	21·48
1893	140	29	21·48
1894	139	34	24·46
1895	124	18	14·51
1896	124	20	16·12
	2093	442	21·11

Table showing the number of cases of **Diphtheria** admitted to the Milton Hospital the number of Deaths, and the percentage of Deaths to cases of Diphtheria admitted for the years 1884 to 1896.

Year	Cases admitted	No. of Deaths	Percentage of Deaths of cases admitted
1884	4	1	25·00
1885	6	—	—
1886	11	1	9·09
1887	27	8	23·70
1888	23	—	—
1889	18	—	—
1890	64	18	28·12
1891	51	4	7·84
1892	27	6	22·22
1893	12	4	33·33
1894	38	8	21·05
1895	46	5	10·87
1896	41	4	9·8
	368	59	16·03

**ENTERIC OR TYPHOID FEVER.**—The number of cases of typhoid fever reported was 235, representing an attack rate of 1·3 per 1000 population, this is lower than has been recorded in any previous year with the single exception of 1894, when the attack rate was 1·1.

Of the 235 cases, 27 or 11·5 per cent. proved fatal; 83 cases were admitted to Milton Hospital, of these 6 or 7·23 per cent. were fatal.

Of the 235 cases, as will be seen from table xix., 195 or 83 per cent. occurred in Landport and Kingston, 12 in Southsea and 4 in Portsmouth, the attack rate per 1000 population in the various districts were as follows :—

Portsmouth,	Portsea,	Kingston,	Landport,	Southsea.
0·5	1·6	1·3	1·3	0·6

On the premises from which typhoid fever was notified, sanitary defects were found in 87 or 37·02 per cent.

**TABLE XVII.**

Table showing the number of cases of **Typhoid Fever** notified, the number of Deaths, and the percentage of Deaths to cases notified, for the years 1884 to 1896.

Year	Cases notified	No. of Deaths.	Percentage of Deaths to cases notified.
1884	539	58	10.76
1885	762	93	11.48
1886	1249	124	9.90
1887	554	53	9.52
1888	313	27	8.60
1889	317	32	10.01
1890	457	50	10.94
1891	265	33	12.40
1892	330	38	11.51
1893	361	54	14.96
1894	201	25	12.44
1895	258	33	12.74
1896	235	27	11.49
	5841	637	10.90

Table showing the number of cases of **Typhoid Fever** admitted to the Milton Hospital, the number of Deaths, and the percentage of Deaths to cases of Typhoid Fever admitted for the years 1884 to 1896.

Year	Cases admitted.	No. of Deaths.	Percentage of Deaths to cases admitted.
1884	2	—	—
1885	6	—	—
1886	66	4	6.06
1887	37	1	2.70
1888	35	—	—
1889	48	6	12.50
1890	114	5	4.38
1891	51	4	7.84
1892	81	6	7.41
1893	94	3	3.19
1894	53	3	5.85
1895	83	4	4.82
1896	83	6	7.23
	753	42	5.57

**MEASLES.**—An epidemic of this disease broke out in the early part of the year. The first case came to the knowledge of the Health Department at the beginning of March, at Eastney, but it soon spread over the whole of the Landport district, afterwards making its appearance in each of the other districts.

The number of cases coming to the knowledge of your Medical Officer of Health was 1036, of which number 126 proved fatal. The number of cases occurring in each district was as follows :—

Portsmouth,	Portsea,	Kingston,	Landport,	Southsea.
63	47	250	619	57

The cause for the high mortality from this disease is, I believe, in a large manner due to the very complacent view that is taken amongst parents regarding measles. It is looked upon as a slight ailment which children must necessarily go through, and taken for granted, as a matter of course, that the child will get over it without any trouble. As a matter of fact, unless great care of the patient is exercised, it proves one of the most fatal diseases a child can contract, and many parents must have had a rude awakening in finding their child suddenly at death's door from a complaint they considered of such a slight character as not even to need a doctor. As soon as parents recognise that an attack of measles if neglected will probably prove fatal, then so soon will an enormous saving of child-life be effected. It will then be seen that the carelessness with which disease has been treated, and not the disease itself, has been the great cause of fatal cases of measles.

Sanitary defects were found in 204 instances, or 19·7 per cent. of the houses in which the disease was known to exist.

**WHOOPING COUGH.**—This disease caused 60 deaths during the year, being four less than in the previous year.

This disease, like measles, is one that is far more fatal than is generally recognised by the public, and I have no doubt that a number of young lives would be saved if parents could be awakened to the fact that whooping cough is *not* a slight ailment, and if neglected, is likely to prove fatal, or render a child delicate for life.

Sanitary defects were found in 13 instances, or 21·6 per cent of the houses in which the disease was known to exist.

**DIARRHŒA.**—One hundred and fifty seven deaths from Diarrhœa took place during the year, being eighty-one less than in the previous year.

By far the largest number of these deaths, no fewer than 132, took place amongst children under one year of age, and it is especially noteworthy that 122 or 92 per cent of the fatal cases were in “bottle-fed” children. In considering this mortality, I think there is no doubt that the deaths would be reduced enormously if the milk were always scalded before use, and the bottle and “teat” of the bottle thoroughly cleaned each time before being given to the child.

It has always been noticed that a very hot summer is most productive of summer diarrhœa, and on table xviii is shown the relation between the deaths and the temperature; also it is noticed that the rise in fatal cases of diarrhœa follows very closely on the rise of the 4ft. thermometer, and as soon as a temperature of 56 degrees F. is registered 4ft. below the earth then summer diarrhœa becomes prevalent. The maximum reached during the year was 60 degrees F. in June; in the previous year the maximum was 61·9 degrees F., the

deaths during this year, as stated above, being 51 more than in 1896.

Sanitary defects were found in 26 or 16·5 per cent of the houses where fatal cases of diarrhœa occurred.

### TABLE XVIII.

Showing the relation of Temperature and fatal cases of Diarrhœa.

Week ending	Temperature of Air.		Temperature by Earth Thermometer		Total Rainfall in inches.	Deaths from Diarrhœa
	Mean of Maximum	Mean of Minimum	1 foot	4 feet		
1896						
March 7th	49·90	42·2	43·6	45·3	0·88	1
" 14th	51·07	42·9	46·8	45·8	0·03	1
" 21st	52·10	41·0	46·3	46·8	1·61	1
" 28th	55·43	43·6	49·4	47·5	0·50	1
April 4th	50·43	37·0	45·5	47·9	...	4
" 11th	58·50	46·3	50·1	47·8	0·12	2
" 18th	54·07	42·3	48·9	48·9	0·43	4
" 25th	58·80	40·9	51·7	49·5	...	17
May 2nd	57·14	44·1	53·5	50·5	0·09	26
" 9th	62·57	41·8	52·9	51·0	...	21
" 16th	68·43	45·9	58·3	52·1	...	3
" 23rd	64·10	49·6	58·0	53·6	0·45	3
" 30th	65·07	47·5	58·6	54·1	...	25
June 6th	67·80	51·0	63·9	55·4	0·52	11
" 13th	69·10	55·6	63·8	57·1	0·57	19
" 20th	78·60	57·4	68·2	58·3	0·18	3
" 27th	70·07	52·4	66·2	59·9	0·08	3
July 4th	69·93	56·4	64·5	60·0	0·24	...

**INFLUENZA.**—The number of deaths from this disease was lower than for some years previous. Only 19 deaths are registered, as against 93 in 1895, 37 in 1894, 53 in 1893, 165 in 1892, and 48 in 1891.

**PUERPERAL FEVER.**—Twenty cases of this disease were reported during the year, of which 5 proved fatal. In each case special care was taken to have the nurse or mid-wife in charge of the case thoroughly disinfected.

In 7 instances, or 35 per cent., sanitary defects were found on the premises in which the disease occurred.

### **COMPULSORY NOTIFICATION OF INFECTIOUS DISEASE.**

Under the Portsmouth Corporation Act, 958 cases of infectious disease have been reported to the Medical Officer of Health, and as a consequence—mainly of compulsory notification—1,354 rooms have been disinfected, and disinfectants supplied where necessary; 216 letters have been sent to the Clerk of the School Board and Principals of various Schools in the Borough notifying them of the occurrence of infectious disease, and advising that the children from infected premises be prevented from attending school until they were free from infection; the Superintendents of Sunday Schools have been similarly advised in 300 instances; 429 letters have been sent to the Public Librarian respecting infected houses.

**TABLE XIX.**

Cases of Infectious Diseases coming to the knowledge of the Portsmouth Urban Sanitary Authority during the year 1896.

	0-1	1-5	5-15	15-25	25-35	35-45	45-55	55-65	65-75	75-85	85 and over	Totals
<b>SMALL POX</b>												
Portsmouth	...	...	2	1	...	1	...	...	...	...	...	4
Portsea	...	...	...	...	...	...	...	...	...	...	...	...
Kingston	...	...	...	1	...	...	...	...	...	...	...	1
Landport	...	...	...	1	...	...	...	...	...	...	...	1
Southsea	...	...	...	...	...	...	...	...	...	...	...	...
Total	...	...	2	3	...	1	...	...	...	...	...	6
<b>SCARLET FEVER</b>												
Portsmouth	...	4	7	...	...	...	...	...	...	...	...	11
Portsea	...	2	9	7	2	...	...	...	...	...	...	20
Kingston	3	54	109	13	5	...	1	...	...	...	...	185
Landport	...	77	177	20	9	1	...	...	...	...	...	284
Southsea	...	10	8	4	2	...	...	...	...	...	...	24
Total	3	147	310	44	18	1	1	...	...	...	...	524
<b>DIPHTHERIA</b>												
Portsmouth	...	1	...	...	...	...	...	...	...	...	...	1
Portsea	...	4	4	2	1	...	1	2	...	...	...	14
Kingston	...	15	27	13	2	3	2	...	...	...	...	62
Landport	1	10	16	5	3	2	...	...	...	...	...	37
Southsea	...	...	4	2	1	2	1	...	...	...	...	10
Total	1	30	51	22	7	7	4	2	...	...	...	124
<b>ENTERIC FEVER</b>												
Portsmouth	...	...	2	1	...	1	...	...	...	...	...	4
Portsea	...	3	7	7	2	4	...	1	...	...	...	24
Kingston	1	13	39	21	10	8	4	1	...	...	...	97
Landport	...	13	44	21	13	5	2	...	...	...	...	98
Southsea	...	...	2	34	3	1	2	...	1	...	...	12
Total	1	29	94	53	28	19	8	2	1	...	...	235
<b>CONTINUED FEVER</b>												
Portsmouth	...	...	...	...	...	...	...	...	...	...	...	...
Portsea	...	...	4	...	...	...	...	...	...	...	...	4
Kingston	...	6	13	5	2	1	1	...	...	...	...	28
Landport	...	2	11	2	...	...	...	...	...	...	...	15
Southsea	...	...	3	1	...	...	...	...	...	...	...	4
Total	...	8	31	8	2	1	1	...	...	...	...	51
<b>PUERPERAL FEVER</b>												
Portsmouth	...	...	...	...	...	...	...	...	...	...	...	...
Portsea	...	...	...	...	1	...	...	...	...	...	...	1
Kingston	...	...	...	2	8	2	...	...	...	...	...	12
Landport	...	...	...	...	2	1	...	...	...	...	...	3
Southsea	...	...	...	...	1	1	...	...	...	...	...	2
Total	...	...	...	2	12	4	...	...	...	...	...	18

**TABLE XX.**

WEEKLY RETURN of Cases of Infectious Diseases reported in accordance with the Portsmouth Corporation Act, 1883, during the year 1896.

Week ending		Small Pox.	Scarlet Fever.	Diph- theria.	Fevers.		Puer- peral Fever.	Total.
					Enteric.	Con- tinued.		
1896								
January	4th	...	7	1	7	...	1	16
	11th	...	3	3	2	...	...	8
	18th	...	9	4	...	2	...	15
February	25th	...	3	4	1	1	...	9
	1st	...	12	5	3	1	...	21
	8th	...	12	6	1	3	...	22
March	15th	...	7	3	1	1	...	12
	22nd	...	5	2	1	...	1	9
	29th	...	8	5	5	...	...	18
April	7th	...	2	2	3	1	...	8
	14th	...	8	2	1	2	...	13
	21st	1	3	...	1	...	...	5
May	28th	1	4	4	7	1	...	17
	4th	...	6	2	2	1	1	12
	11th	...	5	...	6	...	...	11
June	18th	...	13	...	7	1	...	21
	25th	1	5	2	4	3	1	16
	2nd	1	9	1	4	1	...	16
July	9th	1	9	1	5	...	...	16
	16th	1	6	2	8	2	1	20
	23rd	...	5	2	6	...	...	13
August	30th	...	7	2	3	...	...	12
	6th	...	6	1	5	1	...	13
	13th	...	14	1	5	...	1	21
September	20th	...	14	3	2	2	...	21
	27th	...	10	1	2	...	...	13
	4th	...	5	2	4	1	...	12
October	11th	...	8	1	5	...	2	16
	18th	...	5	1	7	...	...	15
	25th	...	7	2	4	...	1	14
November	1st	...	6	...	9	1	...	16
	8th	...	12	...	2	2	1	17
	15th	...	3	2	10	1	...	16
December	22nd	...	8	2	11	2	1	24
	29th	...	16	2	11	1	...	30
	5th	...	17	1	7	1	...	26
January	12th	...	11	1	8	3	...	23
	19th	...	21	...	8	4	1	34
	26th	...	14	5	9	2	...	30
February	3rd	...	15	4	6	2	...	27
	10th	...	24	3	5	...	...	32
	17th	...	14	3	7	2	...	26
March	24th	...	11	4	6	...	...	22
	31st	...	24	...	2	...	...	26
	7th	...	21	2	5	...	...	28
April	14th	...	14	3	1	2	...	20
	21st	...	14	6	4	...	1	25
	28th	...	19	5	2	...	1	27
May	5th	...	14	1	...	1	1	17
	12th	...	11	6	...	...	...	17
	19th	...	13	3	3	...	...	19
June	26th	...	13	3	...	...	3	19
	2nd	...	18	3	2	...	...	23
	TOTALS ...		6	550	124	230	50	19

**TABLE XXI.**

Shewing the number of Infectious Diseases reported to the Medical Officer of Health under the Portsmouth Corporation Act.

Year	Small Pox	Scarlet Fever	Diphtheria	Fevers		Puerperal Fever	Totals
				Enteric	Continued.		
1885	8	314	173	762	...	2	1259
1886	7	343	232	1249	...	14	1845
1887	23	647	260	554	...	11	1495
1888	3	465	128	313	...	11	920
1889	6	728	126	317	...	6	1183
1890	...	573	212	457	125	4	1371
1891	...	350	138	265	52	15	820
1892	...	1023	121	330	76	2	1552
1893	6	1153	135	366	69	25	1754
1894	22	458	139	201	49	9	878
1895	...	311	124	258	62	15	770
Totals	75	6365	1788	5072	433	114	13847
Means	6·8	587·7	162·5	461·1	36·6	10·4	1258·8
1896	6	524	124	235	51	18	958



**THE MILTON HOSPITAL FOR INFECTIOUS DISEASES.**—During the year, 499 cases were admitted to the above Hospital. This represents a little over 52 per cent of all the cases notified to the Sanitary Authority. The greater part of these were suffering from Scarlet Fever, and 67 per cent of the total number of cases of Scarlet Fever notified in the Borough were removed to hospital.

I should like to see a far larger percentage of persons with this disease removed, not only because of the very infectious nature of the disease, but also on account of the long duration of the infectivity. I do not think the community gain so much by the removal to hospital of Typhoid cases as does the patient himself; for the simple reason that, with the exercise of due care, the disease is little likely to spread from person to person; but in the case of Scarlet Fever it is different, and every case moved is a distinct gain to the community. It is, of course, an advantage to the patient, for in the majority of cases, he receives better attention at the hospital than he would at home; but the advantage to the Scarlet Fever patient, in contradistinction to a Typhoid Fever patient, is outshadowed by the advantage to the community.

Whilst I am anxious that all cases should be removed, I must point out that, at present, our Hospital is not able to accommodate all the cases that occur, should they all wish to be removed; and considering the rapid growth of the Borough, I am of opinion that wards capable of accommodating at the very least another 40 patients should be erected. The recommendation of the Local Government Board is, that there should be one bed for every 1,000 of the population. At the present time, we cannot accommodate more than 120 people, whereas, by the standard of one bed to 1,000 population, we ought to have over 180 beds. It would also be of great service, if we could have two or three small rooms to be used as "observation wards." Medical men are constantly

seeing cases which do not exhibit definite enough symptoms to indicate whether they are cases of infectious disease or not. If these cases could be removed to an observation ward, and kept by themselves till definite symptoms have become manifest, there is no doubt we should, in a number of instances, be able to prevent the spread of infectious disease.

I should like, before leaving this subject, to express my appreciation of kindness and attention of the Matron and Nurses to the patients, to which must always, in a large measure, depend the success of the institution.

**DISINFECTION.**—I am pleased to report that during the past year, a modern apparatus for disinfection has been erected in place of the old and faulty hot air oven. The machine erected is one supplied by the Thresh Current Steam Disinfecting Company, and by its means, all infected clothing or bedding is subjected to a current of saturated steam at a temperature of about 213° to 214° F. This is, in my opinion, the best and cheapest method of disinfection on the market.

During the year, 2,384 articles have been disinfected at the Milton Hospital.

**TABLE XXIII.**

Cases under treatment at the Milton Hospital during the year 1896.

DISEASES	AGES									Total
	0-1	1-5	5-15	15-25	25-35	35-45	45-55	55-65	65 and over	
Small Pox ...	...	...	2	2	1	1	...	...	...	6
Scarlet Fever ...	...	103	245	37	8	...	1	1	...	394
Typhoid Fever	...	6	42	20	13	...	1	...	...	83
Diphtheria ...	...	9	14	9	4	2	3	...	...	41
Measles ...	1	2	3	4	...	...	...	...	...	10
Puerperal Fever	...	...	...	2	2	1	...	...	...	5
Continued Fever	...	...	6	1	...	...	...	...	...	7
Tonsilitis ...	...	...	...	1	...	...	...	...	...	1
Erysipelas ...	...	...	...	...	...	...	...	1	...	1
Bronchitis ...	...	...	...	...	1	...	...	...	...	1
Influenza ...	...	...	...	2	...	...	...	...	...	2
Phthisis ...	...	...	...	...	1	...	...	...	...	1
Meningitis ...	...	...	1	...	...	...	...	...	...	1
Abdominal Tumour ...	...	...	...	...	...	...	...	1	...	1
Other Diseases...	...	...	...	1	...	...	...	...	...	1
TOTALS ...	1	120	313	79	30	4	5	3	...	555

**TABLE XXIV.**

Number of Patients admitted to the Hospital for the Years

1883 to 1896.

DISEASES	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896
Small Pox ...	5	1	8	7	20	4	6	1	...	...	6	22	...	6
Scarlet Fever ...	1	13	16	29	56	120	278	384	180	532	503	238	177	352
Enteric or Typhoid ...	...	2	6	66	37	35	48	114	51	81	94	53	83	76
Diphtheria ...	...	4	6	11	27	23	18	69	52	27	12	38	46	38
Measles ...	1	2	1	11	4	8	5	1	22	...	6	22	15	10
Other Diseases ...	...	...	...	1	3	8	8	7	18	5	5	9	25	17
Total ...	7	22	37	125	147	194	363	576	322	645	626	382	346	499

**WATER SUPPLY.**—The following is a summary of the Analytical Results of the water supplied by the Borough of Portsmouth Water Works Company :—

Date when taken	Where taken from	Grains per Gallon			Total Hardness	Parts per Million		Poisonous Metals	Remarks.
		Total Solid Residue	Chlorine	Nitrogen as Nitrates		Free Ammonia	Albuminoid Ammonia		
1896 Jan. 20	Corporation Yard	21.0	1.3	0.140	16.1	0.02	0.02	Absent	Pale greenish brown in colour, no deposit
Feb. 17	" "	21.4	1.4	0.156	16.3	0.01	0.02	Do.	Greenish brown, slight deposit of sand
Mar. 16	" "	20.8	1.6	0.175	15.3	0.01	0.02	Do.	Light green, no deposit
April 20	" "	21.7	1.1	0.157	17.1	0.01	0.01	Do.	Clear, slight sandy deposit
May 19	Corporation Laboratory	22.2	1.3	0.100	16.9	0.01	0.00	Do.	Clear, greyish in colour, very slight deposit of sand
Sep. 7	Corporation Yard	21.4	1.5	0.195	17.0	0.015	0.03	Do.	Clear, greenish tint, no deposit
Sep. 14	" "	24	1.2	0.249	15.0	0.02	0.035	Do.	Clear, slight sandy deposit, faint yellowish tinge
Sep. 28	" "	25	1.4	0.12	16.0	0.02	0.06	Do.	....
Oct. 12	" "	24	1.3	0.20	16.0	0.02	0.07	Do.	....
Nov. 16	" "	25	1.5	0.19	16.0	0.02	0.065	Do.	....
Dec. 14	Technical Institute	26	1.4	0.21	16.0	0.019	0.07	Do.	Not as clear as usual

**HOUSES UNFIT FOR HABITATION.**—Thirteen Houses have been certified to be unfit for human habitation, and these have, upon such certificates, been declared unfit by the Sanitary Authority. I have also written 21 letters, referring to 42 houses, calling upon the owners of insanitary property to remedy the defects, and informing them that unless this was done it would be my duty to certify the property as unfit for human habitation.

**PREMISES CONDEMNED IN 1896.**

Situation of Premises.	Date.
90, Charlotte Street ...	January 21st
33, Marlborough Row ...	Do.
House at rear of do. ...	Do.
1, White's Court ...	February 18th
2, White's Court ...	Do.
18, Church Path North ...	Do.
34, Brighton Street ...	Do.
9, Paradise Street ...	Do.
31, Paradise Street ...	Do.
4, Matrimony Street ...	Do.
1, Steel Street ...	May 19th
3, Steel Street ...	Do.
90, Kingston Road ...	Do.
92, do. ...	Do.
94, do. ...	Do.
46, Voller Street ...	September 15th

**PROSECUTIONS** —Twenty prosecutions have been instituted under the Public Health Act, and evidence given by me where necessary. The following is the result of the prosecutions :—

INITIALS	CHARGE	RESULT OF PROSECUTION.
J. H.	Non-compliance with Nuisance Notice	Order to abate nuisance in 14 days and pay costs—13s. 6d.
T.W.Q.	Do.	Withdrawn on costs (5s. 6d.) being paid, work being done
J. G. R.	Do.	Withdrawn, work done
F. S.	Do.	Order to abate nuisance in 14 days and pay costs—13s. 6d.
W. J.	Do.	Withdrawn, work done
G. L.	Do.	Withdrawn, work done
R. J. T.	Do.	Order to abate nuisance in 14 days and pay costs—9s.
J. T. F.	Do. (11 cases)	Order to abate nuisance in 14 days in each case, and pay costs—£6 2s. 6d.
J. S. C.	Do.	Withdrawn, work done
H. H.	Do.	Order to abate nuisance in 14 days and pay costs—15s. 6d.

**SLAUGHTER HOUSES.**—Until we are possessed of a public abattoir it will be impossible to supervise in an adequate manner the slaughter of animals used for food in this Borough, this is a matter in which English towns are much behind those on the Continent. There are no fewer than 172 registered slaughter houses in various parts of the town, of which 115 are in actual use, and these are scattered so far that it is impossible, with our limited number of inspectors, to have the control over our meat supply that is desirable. As much as is possible has been done, and 4,366 visits have been paid, but in spite of all we can do I am far from satisfied as to the manner in which a large number of slaughter houses are kept. Another great advantage which would accrue from the use of a public abattoir would be the doing away of the accumulation of offal in various parts of the town, and its cartage through the streets during the morning. If the public would only grasp how important it is for their health to have the meat supply under proper control, the abattoir would soon follow as a matter of course, but until they have got over this indifference I am afraid not much can be done.

**INSPECTION OF WORKSHOPS**—Has been effectively carried out by Inspector Benjamin. The supervision exercised by the Sanitary Authority over Workshops is an important factor in the well-being of a number of our working classes.

**COWSHEDS, DAIRIES AND MILK SHOPS.**—There are 217 milk shops, cowsheds and dairies in the Borough, including 29 sheds where cows are kept, all of which have been regularly inspected, 1,875 visits having been made.

**REFUSE DESTRUCTOR.**—In my predecessor's report for last year the following occurs: "This subject, which has been talked of for many years now, seems within the realm of practical politics; it has been considered by the Sanitary

Committee frequently, and the results of their deliberations will be reported to the Council shortly, it is hoped." I am sorry to have to report that the Destructor is still a thing of the future for Portsmouth. I feel most strongly that until an effective destructor is erected, an important factor in the health and well-being of the Borough is being neglected, for the time has past when a large town can afford to dispose (?) of its refuse by dumping it down in various places. Wherever a refuse heap is erected I receive large numbers of letters from indignant, and justly indignant, residents in the neighbourhood, complaining bitterly of the intolerable nuisances of flies, dust and smells to which they are subject, from which they naturally look to the Sanitary Authority to protect them. A borough can no more afford to trifle with its health than an individual, and as certainly as we establish these heaps of dirt and refuse about the town shall we assuredly reap ill health and disease in the future. I trust that before I present my next report a more scientific method of refuse disposal may be an established fact.

**THE SYSTEMATIC INSPECTION OF THE BOROUGH**—Has been specially attended to by your Inspectors and myself. Particulars as to the various nuisances attended to will be found in the Chief Inspector's Report, from which it will be seen that a far larger number of drains have been tested during this, than in any previous year. I would respectfully call your attention to the fact that owing to the very rapid increase of the Borough another Inspector is urgently needed.

In connection with the inspection of houses I am sorry that the Bye-Laws for Houses let in Lodgings, recommended for adoption, were referred back by the Town Council; had they been passed our supervision of a large number of houses inhabited by the lower class would have been rendered more complete. There are many houses the rooms of which are let out singly to families, the consequence is that the condition of

many of these rooms, which are occupied by some of our very lowest classes, is filthy in the extreme, and beyond serving notices to cleanse, &c., which are tardily complied with, we have not much power to effect an improvement. Were the Bye-Laws in force we could then among other things see that there should be a sufficient number of water-closets for the inmates ; that the courts and ashpits should be kept clean ; that ventilation should be efficient ; and that the house should be thoroughly cleaned once a year. These and other precautions are all very necessary, and while they should be strictly enforced in some houses, other houses, though they might come within the scope of the Bye-Laws, which are occupied by respectable and clean, although poor people, would not be interfered with, but we should have the power of greatly improving the class of house which may be described as only a step above the common lodging house. I trust that at any early date you will ask the Town Council to reconsider their former decision in this matter.

# TABLE XXV.

Table of Deaths during the Year 1896, in the Portsmouth Urban Sanitary District, classified according to Diseases, Ages, and Localities.

Names of Localities adopted for the purpose of these Statistics; public institutions being shown as separate localities	Mortality from all Causes, at Subjoined Ages.							Mortality from subjoined Causes, distinguishing Deaths of Children under Five Years of Age.																						
	At all ages	Under 1 year	1 and under 5	5 and under 15	15 and under 25	25 and under 65	65 and upwards	Small Pox	Scarlatina	Diphtheria	Membranous Croup	Fevers					Cholera	Erysipelas	Measles	Whooping Cough	Diarrhoea and Dysentery	Rheumatic Fever	Influenza	Phthisis	Bronchitis, Pneumonia and Pleurisy	Heart Disease	Injuries	All Other Diseases	Total	
												Typhus	Enteric or Typhoid	Continued	Relapsing	Puerperal														
Portsmouth	83	18	13	3	2	27	20	Under 5 5 upwards	..	..	..	..	..	..	..	..	8	2	2	..	..	..	..	..	..	2	..	2	15	31
Portsea	200	57	31	5	14	53	40	Under 5 5 upwards	..	3	..	..	..	..	..	..	7	..	..	..	6	..	..	..	..	3	9	6	27	52
Kingston	936	308	117	44	42	197	228	Under 5 5 upwards	..	..	..	..	2	..	..	..	1	49	20	69	1	..	1	2	16	13	18	3	58	112
Landport	1090	333	167	36	48	249	257	Under 5 5 upwards	3	4	2	..	8	..	..	2	2	..	28	1	1	..	8	1	43	55	5	9	161	425
Southsea	203	20	10	3	13	61	96	Under 5 5 upwards	2	4	2	..	1	..	..	2	3	54	..	67	..	1	1	8	60	4	7	259	500	
Naval & Military Barracks, Ships in Harbour, &c.	56	15	10	1	10	20	..	Under 5 5 upwards	..	..	..	..	6	..	..	2	..	1	..	2	1	..	4	90	93	88	23	281	590	
Infectious Diseases Hospital	24	..	11	7	2	4	..	Under 5 5 upwards	..	..	..	..	1	..	..	1	..	..	..	3	17	3	..	..	26	2	2	20	30	
Portsea Island Union..	290	23	5	3	11	86	162	Under 5 5 upwards	5	4	..	..	5	..	..	..	2	1	1	..	1	..	..	..	5	..	6	4	11	31
Borough Asylum	64	1	..	..	7	39	17	Under 5 5 upwards	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	1	6	..	..	41	63
Portsmouth & Gosport Hospital	72	..	8	5	6	36	17	Under 5 5 upwards	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	10	8	1	41	64
Nazareth Home	12	..	1	2	..	1	8	Under 5 5 upwards	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	2	1	..	..	1	7

# TABLE XXVI.

Table of Population, Births, and of New Cases of Infectious Sickness, coming to the knowledge of the Medical Officer of Health, during the year 1896, in the Portsmouth Urban Sanitary District; classified according to Diseases, Ages and Localities.

Names of Localities adopted for the purpose of these Statistics; Public Institutions being shown as separate localities	Population at all Ages	Registered Births	Aged under 5 or over 5	New Cases of Sickness in each Locality, coming to the knowledge of the Medical Officer of Health.												Number of such Cases Removed from their Homes in the several Localities for treatment in Isolation Hospital.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
				1	2	3	4	5	6	7	8	Fevers					Diphtheria	Membranous Croup	Typhus	Enteric or Typhoid	Continued	Relapsing	Puerperal	Cholera	Erysipelas	Measles	12	13																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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Portsmouth	6839	..	Under 5 5 upwards	2	7	1	..	..	3	..	..	..	..	51	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

## Port Sanitary Authority.

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GENTLEMEN,

During the year 8,101 vessels have arrived at this port ; they have been boarded and inspected by Mr. Meades, the Port Sanitary Inspector, and some of the vessels have been seen by me.

5,646 arrived from the Solent ; 2,101 British vessels coastwise ; 275 British vessels from foreign ports.

The nationalities of the foreign vessels entering the port were as follows :—

French	...	23	Danish	...	11
German	...	13	Dutch	...	4
Norwegian	...	15	Swedish	...	2
Russian	...	11			

Great care was taken during the year to prevent cholera or the "plague" from being brought into the town, and precautionary measures were taken in the event of an outbreak, but I am pleased to say that no case was reported to me.

I am, Gentlemen,

Your obedient servant,

**A. MEARNS FRASER,**

*Medical Officer of Health to the Port Sanitary Authority.*

# Report of the Chief Inspector of Nuisances

FOR THE YEAR 1896.

## NOTICES SERVED.

To Cleanse	Cellar	-	-	1
"	Cesspits	-	-	24
"	Dwellinghouses	-	-	167
"	Bakehouses	-	-	28
"	Slaughterhouses	-	-	38
"	Common Lodging Houses	-	-	6
"	Cowshed	-	-	1
"	Workshops	-	-	50
"	Laundries	-	-	16
"	Drains	-	-	407
"	Water Closets and Pans	-	-	102
"	Yards, Stables, Sties, etc.	-	-	69
"	Dead Well	-	-	1
"	Filthy Bedding	-	-	1
"	Spouting	-	-	10
To Remove	Animals	-	-	4
"	Manure	-	-	72
"	Refuse	-	-	64
"	Rags	-	-	61
"	Stagnant Water	-	-	7
"	Human Excrement	-	-	9
"	Bones	-	-	4
"	Offal	-	-	1
To Repair	Cellar Coverings	-	-	7
"	Drains	-	-	785
"	Soil Pipes	-	-	13
"	Rain Water Spouts	-	-	146
"	Water Closets	-	-	13

To Repair	Urinal	-	-	1
"	Water Closet Fittings	-	-	89
"	Dwellinghouses	-	-	94
"	Rain Water Tank	-	-	1
"	Sanitary Defects in Dwellinghouses			1449
"	Sanitary Defects in Workshops	-	-	95
"	Sanitary Defects in Dairies, Cowsheds, and Milkshops	-	-	7
To Construct	Smoke Consuming Apparatus	-	-	22
"	Yard Traps	-	-	2
"	Rain Water Spouting	-	-	12
To Provide	New Water Closet Pans	-	-	5
"	Scullery Sinks	-	-	2
"	Extra W.C. Accommodation	-	-	1
To Repave	Yards, Stables, Sties, etc.	-	-	553
To Ventilate	Drains	-	-	48
To Raise or Repair	Ventilating Shafts	-	-	42
To Ventilate	Workshops	-	-	1
To Drain	Yards, Stables, and Sties	-	-	8
To Comply with	Slaughterhouse Bye-Laws	-	-	14
To Comply with	Nuisances' Bye-Laws	-	-	8
To Disconnect	Rain Water Pipe from Drain	-	-	1
To Disconnect	Waste Pipes from Soil Pipes	-	-	4
To Tank	Manure Pits	-	-	3
To Fill in	Dead Wells	-	-	2
To Lay on	Water to Dwellinghouses	-	-	4
To Connect	Premises with Main Sewer	-	-	8
To Discontinue	Overcrowding in Tents and Vans			25
"	"	Dwellinghouses		25
"	"	Workshops	-	26
Total				4599

# NUISANCES REMOVED.

Cesspits	-	-	Cleansed	-	90
Drains	-	-	"	-	498
Cellars	-	-	"	-	3

Slaughterhouses	-	Cleansed	-	42
Dwellinghouses	-	"	-	153
Common Lodging Houses	-	"	-	6
Bakehouses	-	"	-	23
Workshops	-	"	-	37
Laundries	-	"	-	21
Dairies, Cowsheds, and Milkshops	-	"	-	1
Yards, Stables, and Sties	-	"	-	63
Water Closets and Pans	-	"	-	112
Filthy Bedding	-	"	-	1
Ditches	-	"	-	3
Rain Water Spouting	-	"	-	5
Manure	-	Removed	-	66
Animals	-	"	-	4
Refuse	-	"	-	55
Stagnant Water	-	"	-	4
Rags	-	"	-	1
Human Excrement	-	"	-	10
Bones	-	"	-	5
Offal	-	"	-	4
Water Closet Fittings	-	Repaired	-	85
Water Closets	-	"	-	6
Drains	-	"	-	924
Rain Water Spouts	-	"	-	143
Cellar Coverings	-	"	-	7
Soil Pipes	-	"	-	11
Dwellinghouses	-	"	-	108
Sanitary Defects in Dwellinghouses	-	"	-	1359
" " Workshops	-	"	-	92
" " Dairies, Cowsheds, and Milkshops	-	"	-	6
Yard Traps	-	Constructed	-	4
Smoke Nuisances Abated	-		-	24
Rain Water Spouting	-	Provided	-	26
New W.C. Pans	-	"	-	5
Scullery Sinks	-	"	-	3

Drains Ventilated	-	-	76
Ventilating Shafts Raised or Repaired	-	-	38
Laundries	-	Ventilated	2
Water Closet	-	"	1
Water Laid On to Dwellinghouses	-	-	6
Premises Connected with Main Sewer	-	-	68
Yards, Stables, Sties, etc., Paved	-	-	547
Rain Water Pipes Disconnected from Drain	-	-	1
Waste Pipes Disconnected from Soil Pipes	-	-	5
Stables Drained	-	-	7
Dead Wells Filled in	-	-	2
Overcrowding Discontinued in Dwellinghouses	-	-	20
"	"	Workshops	29
"	"	Vans and Tents	26
Slaughterhouse Bye-Laws Complied with	-	-	13
Nuisance	"	"	6
Common Lodging House Bye-Laws Complied with	-	-	1
Total			<hr/> 4858 <hr/>

The following Articles of Food have been seized by the Inspectors, or given up by the owners for the purpose of destruction, as unfit for the Food of Man, viz. :—

Carcases of Beef	-	-	-	7
" Pigs	-	-	-	11
" Sheep	-	-	-	3
Colonial Beef	-	-	-	qr. 1
Corned Beef	-	-	-	cwt. 1½
Pieces of Beef	-	-	-	lbs. 30
Pork Chines	-	-	-	cwt. 2
Rabbits	-	-	-	18
Bloaters	-	-	-	Boxes 464
Kippers	-	-	-	" 79
Haddock	-	-	-	" 76

Mackerel	-	-	-	tons	2
"	-	-	-	Boxes	2
Whiting	-	-	-	cwt.	8
Bream	-	-	-	Boxes	7
Mixed Fish	-	-	-	Kits	6
Escalops	-	-	-	Bag	1
Dog-fish	-	-	-	Boxes	5
Shrimps	-	-	-	Box	1
Winkles	-	-	-	Bags	7
Crabs	-	-	-		18
Salmon	-	-	-		4
Salt Cod Fish	-	-	-	cwt.	1
Mullet	-	-	-	Boxes	3
Trout	-	-	-	Box	1
Oranges	-	-	-		600
Lemons	-	-	-	Cases, 400 in each,	6
Cherries	-	-	-	Baskets	75
Tomatoes	-	-	-	Bushel	1
Pears	-	-	-	Cases	40

### INSPECTION.

During the year 4,599 Notices were served to abate Nuisances, and 4,858 Nuisances were removed.

7,725 Dwelling-houses were inspected.

4,365 Slaughter-house visits have been made.

1,875 Visits have been made to the various Dairies, Cowsheds and Milk Shops.

1,172 Visits have been paid to the Common Lodging Houses, of which 419 were late night Visits.

2,384 Visits were made to the different Bakehouses.

4,295 Visits were made by the Workshop Inspector (Inspector Benjamin) to the various Workshops.

1,040 Complaints have been made at the Office relative to Nuisances, and received attention.

### **INFECTIOUS DISEASES.**

During the year 2,001 Cases of Infectious or Zymotic Diseases have been visited and investigated.

### **FOOD AND DRUGS' ACT.**

During the year 157 samples of Food and Drugs have been obtained by the Inspector, and submitted to the Public Analyst for analysis.

### **DRAINS.**

I have to report that a far larger number of Drains have been tested during the year than in any previous year. No less than 5,891 Drains have been tested, and re-tested on repair, the number found defective amounted to 2,844 or 48·2 per cent. The "water test" has been applied to repaired Drains wherever practicable, and especially where Drains pass under houses, such Drains being laid on and covered with concrete.

The Drains of the following Board Schools have been relaid, and tested by the "water test" under the superintendence of your Inspectors, viz.: Milton, Binstead Road, Wellington Place, Flying Bull Lane, Conway Street and Omega Street.

At the request of the Guardians the whole of the Drainage of the Portsea Island Union Workhouse and out-buildings were examined, and the various defects found to exist, reported upon.

### **PROSECUTIONS AND FINES.**

*Public Health Act, 1875.*

Proceedings were instituted in 20 Cases against owners of property under the above Act, for non-compliance with Notices to abate Nuisances.

Orders were made by the Court in 15 Cases for the abatement of the Nuisances, and the Costs amounting to £8 19s. 6d. imposed, and the remaining Cases were withdrawn on the work being carried out to the satisfaction of the Authority.

*Food and Drugs' Acts:—*

Proceedings were also taken against 11 Purveyors of Milk for adulteration.

Fines and Costs amounting to £14 8s. 6d. were inflicted in 8 Cases, the 3 remaining cases being dismissed.

I am, Gentlemen,

Your obedient Servant,

**FRED L. BELL,**

*Cert. San. Inst.,  
Chief Inspector of Nuisances.*

# Contagious Diseases (Animals) Act.

## INSPECTOR'S REPORT

FOR THE YEAR ENDING DECEMBER 31st, 1896.

### INSPECTION OF CATTLE.

The undermentioned cattle have been inspected during the year, the majority arriving at the Railway Station from various markets and other places.

Beasts	...	...	8,958
Sheep	...	...	52,199
Calves	...	...	5,298
Pigs	....	...	19,814
Total			86,269

**INSPECTION OF CATTLE TRUCKS, ETC.**—2,650 cattle trucks, 1,193 horse boxes, and 405 tow boats have been inspected, and in every case I found them thoroughly cleansed and lime-washed, as required by the act.

**SWINE FEVER.**—There have only been four outbreaks of this disease during the year, but a large number of suspicious cases have come to my notice. Prompt action in dealing with these cases has prevented further outbreaks.

The marked decrease of outbreaks and general improvement in the condition of pigs in the Borough is due mainly to the prompt actions taken by the Board of Agriculture, and the destruction of old sties, the sites being properly deoderized, and sties rebuilt according to Sanitary instructions; also by the owners following my advice regarding selection and rearing of pigs.

**RABIES.**—In the beginning of the year a number of dogs were seized under the Dogs' Act, 1871, giving the police power to detain any stray dogs. On 28th May, 1896, the Rabies Order of 1895 was put into force by the Local Authority at the request of the Board of Agriculture, which gave power to the police to detain any unmuzzled dogs except those wearing collars with the name and address of owner engraved thereon. The number of dogs seized by the police during the year was 721, of which 495 were destroyed, and 226 were either sold or returned to their respective owners on payment of expenses. Many suspicious cases have been reported to me during the year, but on examination they were found to be free from rabies, but suffering from either mange, distemper, or teething.

**OTHER DISEASES.**—During the year my attention has been called to several supposed cases of contagious diseases in horses and cows; but on examination and isolation, no contagion became apparent.

**PROSECUTIONS.**—I am pleased to state that during the year no prosecutions have been instituted for any infringement of this act.

Although such a marked decrease of diseases and general improvement in all the classes of animals throughout this Borough is noticeable, the duties have greatly increased.

I find Mr. W. H. Turner a very efficient officer in assisting me to carry out these duties, which require our strictest care and attention.

I am, Gentlemen,

Your obedient servant,

**G. W. MONKCOM,**

*Inspector under the Contagious Diseases (Animals') Act.*

# Report of the Public Analyst

FOR THE

Year ending December 31st, 1896.

J. MOORE MURRAY, M.Sc., F.C.S.,

*Public Analyst.*

TOWN HALL, PORTSMOUTH,

JANUARY 31ST, 1897.

## Report of the Public Analyst

FOR THE YEAR ENDING DECEMBER 31ST, 1896.

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

GENTLEMEN,

During the year 1896, 167 samples of food and drugs were analysed, of which number 157 were taken by your Inspectors, and 10 submitted by private individuals.

Taking the population of Portsmouth (in 1896) as 178,639, the number of samples of all kinds taken in the year is equivalent to one for every 1,063 persons.

Of the total number of samples, 33, or 19·76 per cent were found adulterated. The percentage of adulterated articles taken by the Inspectors was 17·85, and the percentage of articles adulterated submitted by private individuals was 50·0.

From the returns published by the Local Government Board, it appears that of the 43,962 samples analysed in 1895, 43,795 were obtained by the officers of local authorities, of which 4,093 or 9·3 per cent were found adulterated; and only 167 were taken by private purchasers, and of these as many as 60 or 35·9 per cent were condemned. From these facts it may be concluded that the officers of the local authorities become known to the vendors of adulterated articles, who are thus prepared to supply them with genuine samples, whilst they sell adulterated articles to an indifferent public. The fixed charge for the analysis of private samples is so small (2s. 6d.) that it is difficult to understand why the public refuse the opportunity of protecting themselves from unscrupulous tradesmen.

The following is a list of samples analysed :—

Milk	...	...	...	...	84
Butter	...	...	...	...	18
Coffee	...	...	...	...	14
Pepper	...	...	...	...	12
Arrowroot	...	...	...	...	2
Vinegar	...	...	...	...	7
Whiskey	...	...	...	...	18
Rum	...	...	...	...	3
Gin	...	...	...	...	1
Sal Volatile	...	...	...	...	6
Hop Ale	...	...	...	...	1
Cordial	...	...	...	...	1

TABLE

Showing the number of Samples Analysed during the  
last Ten Years.

Year.	Total	Milk	Butter	Bread and Flour	Groc- eries	Wines and Spirits	Drugs	Sun- dries	No. of Samples found Adulterated.
1887	169	143	5	...	7	8	...	6	35
1888	200	106	42	...	34	9	...	9	17
1889	206	102	11	5	64	22	...	1	35
1890	187	121	25	1	33	7	...	...	16
1891	206	110	11	11	48	25	...	1	40
1892	203	124	24	6	24	18	...	7	30
1893	218	141	9	10	12	14	...	32	31
1894	238	126	28	1	18	20	10	35	27
1895	257	165	33	3	30	18	8	...	38
1896	168	84	18	...	28	22	6	10	33

During the year I have also analysed for the Police Authorities a sample of tea and a white powder, which were suspected of containing poison ; and during the regretted illness of the Medical Officer of Health, I have made the monthly analysis of water supplied to the town.

The following table shows the number of adulterated, inferior and genuine samples, with the totals, and the number and names of those of each kind.

Article	Sent in by		Adulterated		Inferior		Genuine		Totals
	Inspector	Private Person	Inspector	Private Person	Inspector	Private Person	Inspector	Private Person	
Milk ...	80	4	18	2	7	...	55	2	84
Butter ...	15	3	1	1	...	...	14	2	18
Coffee ...	14	...	1	...	...	...	13	...	14
Pepper ...	12	...	...	...	...	...	12	...	12
Vinegar ...	6	1	3	...	2	1	1	...	7
Sal Volatile ...	6	...	...	...	1	...	5	...	6
Whiskey ...	18	...	3	...	1	...	14	...	18
Rum ...	3	...	1	...	1	...	1	...	3
Gin ...	1	...	1	...	...	...	...	...	1
Hop Ale ...	...	1	...	1	...	...	...	...	1
Cordial ...	...	1	...	1	...	...	...	...	1
Arrowroot ...	2	...	...	...	...	...	2	...	2
Totals ...	157	10	28	5	12	1	117	4	167

**MILK.**—The samples of milk analysed numbered 84, of which 20 or 23·8 per cent. were adulterated. The returns of the Local Government Board show that in 1895, of the samples of milk analysed throughout the country 11·1 per cent. were

adulterated. The seven samples of milk returned as "inferior" were all under the standard suggested by the witnesses examined by the Royal Commission on food and drugs.

The 57 samples of milk reported as of genuine composition were all of very good quality.

It is still the practice of milk sellers to add preservatives to milk, but in the genuine samples analysed few contained any preservatives. Unless there is an excess of preservative added, the samples are not regarded as adulterated, as it is a question upon which medical experts are not agreed as to whether such preservatives as boric acid are harmful.

**BUTTER.**—Of the 18 samples of butter analysed 2 or 11·1 per cent. were found adulterated. The percentage of samples, taken throughout the country found adulterated in 1895 was 8·2. Most of the samples analysed contained boric acid, but the Local Government Board does not advise such samples to be returned as adulterated.

**COFFEE.**—Only one sample of coffee or 7·1 per cent. of the number analysed was found to be adulterated. The other samples were of very good quality.

**VINEGAR.**—Three out of seven, or 42·8 per cent. of the samples of vinegar analysed were found to be adulterated, and most of the other samples were of very poor quality.

**SPIRITS.**—22·7 per cent. of the samples of spirits analysed were deficient in strength and therefore returned as adulterated. The per cent. found adulterated in the whole of the country in 1895 was 16·5.

The following table shows the action taken in each case of adulteration and the result (if any) of such action :—

No.	Nature of sample	By whom obtained	Amount of adulteration.	Remarks.
1	Cordial ...	Private person	1.73 p.c. alcohol ...	Submitted to Town Clerk. No prosecution.
2	Coffee ...	Inspector ...	5 p.c. chicory ...	
3	Butter ...	Private person	10 p.c. foreign fat ...	
4	Milk ...	Do.	69 p.c. cream extracted	Submitted to Town Clerk. No prosecution.
5	Hop Ale	Do.	0.99 p.c. alcohol ...	
6	Milk ...	Inspector ...	4 p.c. cream extracted...	
7	Whiskey	Do. ...	27.6 p.c. under proof ...	Submitted to Town Clerk. No prosecution.
8	Rum ...	Do. ...	25.7 p.c. do. ...	Submitted to Town Clerk. Card in bar.
9	Whiskey	Do. ...	39 p.c. do. ...	Submitted to Town Clerk. Card in bar.
10	Whiskey	Do. ...	25.7 p.c. do. ...	Submitted to Town Clerk. Card in bar.
11	Milk ...	Do. ...	20 p.c. cream extracted	Fined £1 and 12s. costs.
12	Vinegar ...	Do. ...	Sulphuric acid .09 p.c. So 4	No prosecution.
13	Do. ...	Do. ...	Sulphuric acid .07 p.c. So 4	Do.
14	Do. ...	Do. ...	Sulphuric acid .13 p.c. So 4	Do.
15	Butter ...	Do. ...	36.1 p.c. foreign fat ...	Fined 27s. and 13s. costs.
16	Milk ...	Do. ...	8 p.c. cream extracted...	Fined 17s. 6d., including costs.
17	Do. ...	Do. ...	92 p.c. do. ...	Prosecuted—case dismissed, only 1d. charged for milk
18	Do. ...	Do. ...	4 p.c. do. ...	Prosecuted—case dismissed.
19	Do. ...	Do. ...	4 p.c. do. ...	Fined 5s. towards costs.
20	Do. ...	Do. ...	8 p.c. do. ...	Fined 10s.
21	Do. ...	Do. ...	98.8 p.c. do. ...	Fined £5, or a month's imprisonment.
22	Do. ...	Do. ...	8 p.c. do. ...	Fined 10s. and 12s. costs.
23	Do. ...	Do. ...	12 p.c. do. ...	Case dismissed.
24	Do. ...	Private person	32 p.c. do. ...	Fined £2 and £1 2s. costs. Submitted to Town Clerk. No prosecution.
25	Do. ...	Inspector ...	16 p.c. do. ...	
26	Do. ...	Do. ...	84 p.c. do. ...	
27	Whiskey	Do. ...	35.57 p.c. under proof...	No prosecution—label on bottle.
28	Milk ...	Do. ...	13.40 p.c. cream extracted	Taken in course of delivery at Portsea Island Union.
29	Do. ...	Do. ...	12 p.c. do. ...	Case withdrawn. Cork came out of second part.
30	Rum ...	Do. ...	26.20 p.c. under proof...	No prosecution.
31	Gin ...	Do. ...	36.23 do. ...	No prosecution—label on bottle.
32	Milk ...	Do. ...	36 p.c. cream extracted	Case withdrawn.
33	Do. ...	Do. ...	20 p.c. do. ...	No prosecution—cork came out of second part.

**PROSECUTIONS**—Were instituted in 13 Cases, Fines being imposed in 8 Cases.

**FINES.**—From the above table it will be seen that Fines amounting to £11 9s. 6d. were ordered to be paid, and in addition Costs amounting to £2 19s. 0d.

It will be also seen that prosecutions were not instituted in cases where cards were exhibited in the Bar in which the spirits were purchased, and when labels stating the strength of the spirit supplied were fixed to the bottles. I am of opinion that such a defence would not be valid, having regard to the fact that the constitution of Whiskey, Brandy, Rum and Gin is defined by the Amendment Act of 1879, as far as strength is concerned.\*

No. 17.—This case was dismissed by the Magistrates because only one penny was charged, consequently there was no prosecution in Case No. 26.

The Inspector has no control over the charge made for the sample, and does not pay for it until he has received it. If such a defence is valid it will defeat the proper working of the Act, and to prevent this, I think, in cases which are dismissed on account of the low charge for the sample, appeals should be instituted.

In cases where for various reasons it is not deemed advisable to institute proceedings, I would suggest that cautionary letters be addressed by the Town Clerk to the vendors of the adulterated articles. At the same time, this action must not be taken to mean that the Council will refrain from prosecuting in all future cases, which are similar as regards nature and extent of adulteration.

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\*Brentford Petty Sessions, Middlesex County *v.* William Palmer, January 26th, 1897.

I would remind you that I commenced my duties in August, since which time I have analysed 118 samples, of which 23 or 19·4 per cent were found to be adulterated. Prosecutions were instituted in thirteen cases and fines amounting to £11 9s. 6d. were ordered to be paid in addition to costs amounting to £2 19s. 0d.

I have the honor to be, Gentlemen,

Your obedient servant,

**J. MOORE MURRAY,**

*Public Analyst.*



