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Contributors

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CHARPENTIER'S New Map of Portsmouth

INCLUDING
SOUTHSEA, LANDPORT, PORTSEA
AND DISTRICT

Published by
CHARPENTIER & CO.
140 High Street
PORTSMOUTH.

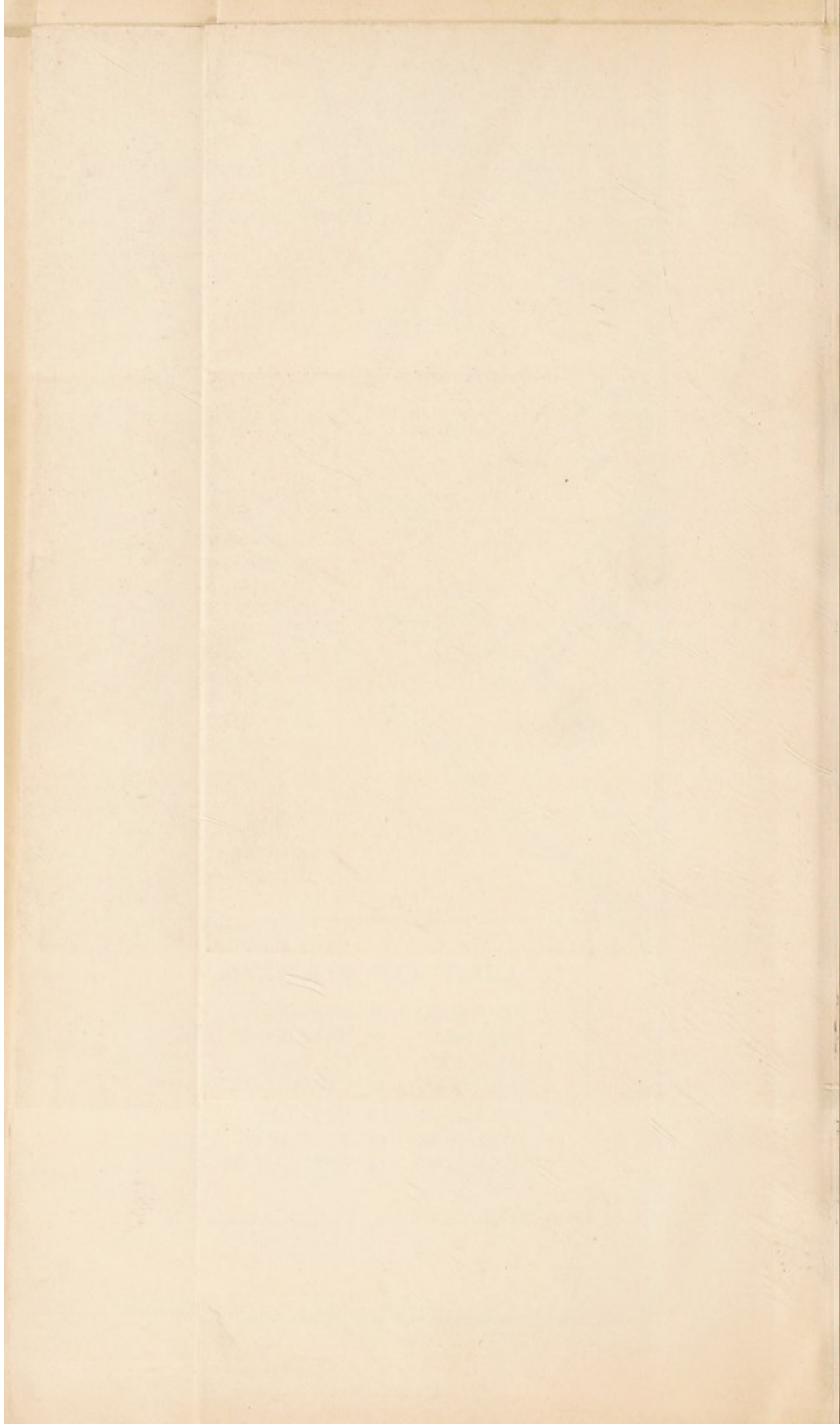
PORTSMOUTH
HARBOUR

EXPLANATORY REFERENCES.
From Routes.
Ward Divisions.
Public Institutions.

Scale 6 Inches to the mile.

REFERENCES TO THE ROYAL PORTSMOUTH DOCKYARD.

| | |
|---------------------------|----------------|
| 1 Robert Dock, built 1858 | 35 Admiralty |
| 2-10 Dock | 41 Boat House |
| 11-15 Dock | 42 Boat House |
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| 1971-1975 Dock | 434 Boat House |
| 1976-1980 Dock | 435 Boat House |
| 1981-1985 Dock | 436 Boat House |
| 1986-1990 Dock | 437 Boat House |
| 1991-1995 Dock</ | |



"SALUS POPULI SUPREMA LEX."



REPORT

ON THE

Health of Portsmouth

FOR THE YEAR 1904,

BY

A. MEARNS FRASER,

M.D. (EDIN. UNIV.), D.P.H. (CAMB. UNIV.)

Medical Officer of Health,

Medical Superintendent to the Small Pox Hospital,

Medical Officer of Health to the Port of Portsmouth.

INCLUDING THE

Report of the Public Analyst:

EDWARD RUSSELL, B.Sc. LOND., F.I.C.

Health Committee, 1903=4.

THE WORSHIPFUL THE MAYOR—

COUNCILLOR J. E. PINK, J.P.

Chairman :

ALDERMAN A. LEON EMANUEL, J.P.

Vice-Chairman :

COUNCILLOR R. EMMETT, M.D.

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

ALDERMAN J. H. ALLEN.

COUNCILLORS :

G. W. EDMONDS

H. J. C. JONES

W. A. MORLEY

H. R. PINK, J.P.

C. GILLET

W. E. DUCK

J. BALDWIN

J. MULVANY, L.R.C.P.

S. WOLFE

J. DUMMER

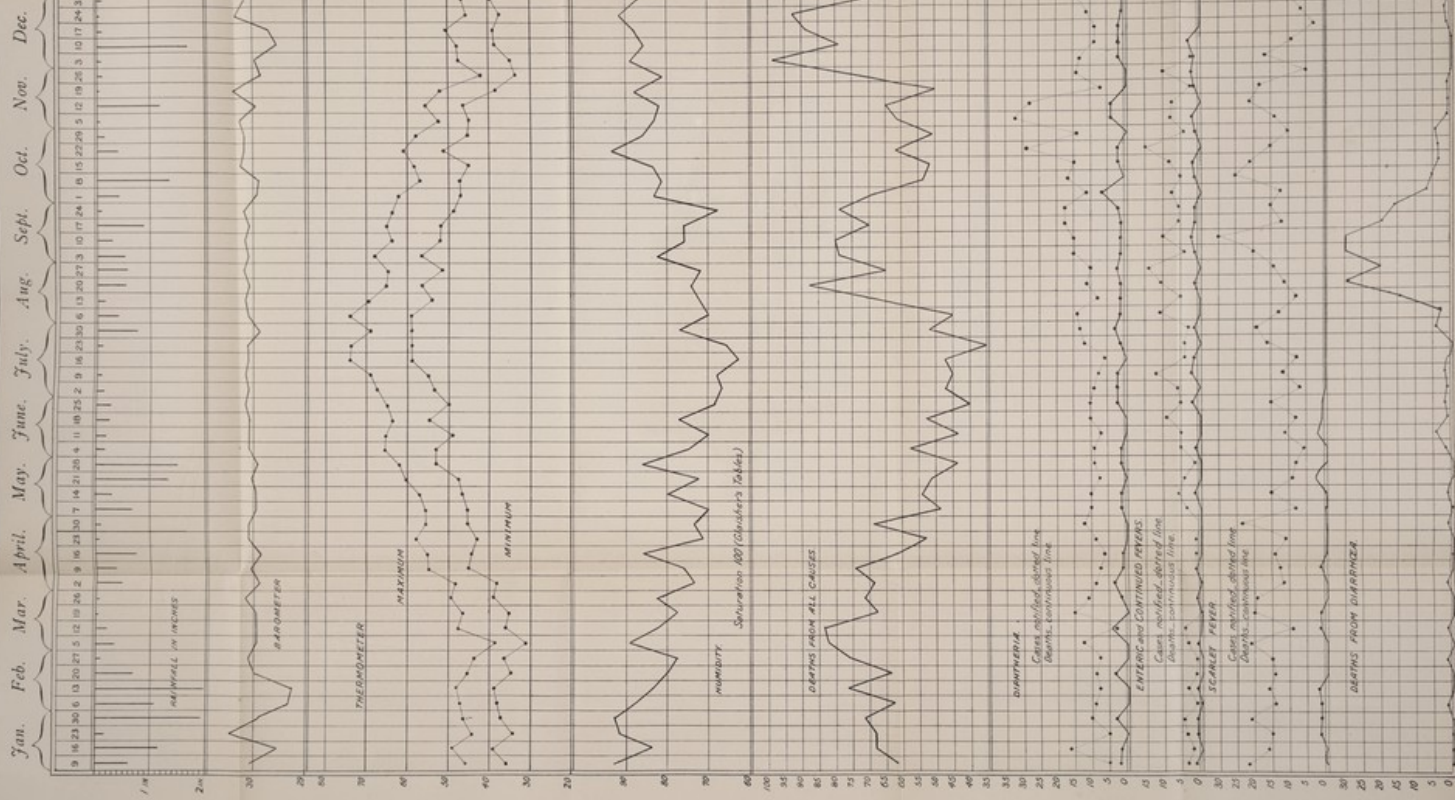
W. HOOKEY


H. PALIN

M. GILL

BOROUGH OF PORTSMOUTH.

METEOROLOGICAL AND DISEASE CHART FOR 1904.





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Officers of the Medical Officer of Health's Dept.

Medical Officer of Health :

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

Chief 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.

J. S. HOBBS, Cert. San. Inst.

F. R. LOVETT, Cert. San. Inst.

H. HOLMAN, Cert. San. Inst.

C. W. HALL, Cert. San. Inst.

E. J. G. SINNETT, Cert. San. Inst.

Inspector of Workshops and Inspector of Nuisances :

H. G. GRAY, Cert. San. Inst.

Inspector of Drains and Inspector of Nuisances :

W. H. TURNER, Cert. San. Inst.

Assistant Clerk :

G. BOWDEN.

Disinfector :

A. AYLMER.

Port Sanitary Inspector :

T. MEADES.

Infectious Diseases Hospital.

Medical Superintendent :

J. MCGREGOR, L.R.C.P., L.R.C.S.

Matron :

Miss F. PETCHEY.

Medical Officer's Report.

To the Chairman and Members of the Health Committee.

GENTLEMEN,

I have the honour to present for your consideration my Annual Report on the health of the Borough during the year 1904. Included in it is an account of the various measures taken by the Health Department for the protection of the public health, the usual statistical returns, the action taken under the Public Health Acts, including the Factory and Workshops Act, the Housing of the Working Classes Acts, the Sale of Food and Drugs Act, and the Midwives Act, etc.

To my mind the most important event of the year from a public health point of view has been the completion and issuing of the new Building Bye-laws. The drafting of these, and the subsequent alterations and revisions to comply with the requirements of the Local Government Board, have involved a considerable amount of time and labour, not only on the part of your officers, but also on the part of those gentlemen who served so long on the Joint Bye-laws Committee, as a reward for these efforts there now remains the satisfaction of knowing that the new Bye-laws, intelligently enforced, must inevitably have far-reaching results in the future on the health of the public of this Borough.

I would take this opportunity of expressing my appreciation of the kind consideration and courtesy I have always experienced at your hands, and my regret that illness has prevented this Report being issued at an earlier date.

I have the honour to be, Gentlemen,

Your obedient servant,

A. MEARNS FRASER, M.D.,

*Medical Officer of Health to the Port and Borough
of Portsmouth, and Medical Superintendent
to the Small-pox Hospital.*

Summary for 1904.

| | | | |
|---|-------|---------------------------------------|---------|
| Population (estimated to middle of 1904) | ... | ... | 198,038 |
| Total Births | 5,579 | Rate per 1000 | 28·27 |
| „ Deaths | 3,333 | „ „ | 16·88 |
| Deaths under 1 year | 791 | Deaths under 1 year to 1000 Births | 145 |
| „ 60 years and upwards | 1,009 | Death rate per 1000 living | 50·9 |
| „ Principal Zymotic Diseases | 417 | Death rate per 1000 | 2·11 |
| „ Small Pox | 0 | „ „ | 0 |
| „ Measles | 1 | „ „ | 0·00 |
| „ Scarlet Fever | 22 | „ „ | 0·11 |
| „ Diphtheria | 71 | „ „ | 0·36 |
| „ Whooping Cough | 76 | „ „ | 0·38 |
| „ Fever | 34 | „ „ | 0·17 |
| „ Diarrhœa | 213 | „ „ | 1·06 |
| „ Violence | 95 | „ „ | 0·48 |
| „ Inquest Cases | 238 | Percentage to total deaths | 7·13 |
| „ Public Institutions | 594 | „ „ | 17·82 |
| „ Uncertified Causes | 86 | „ „ | 1·08 |
| Average Death Rate for ten years, 1894—1903 | ... | ... | 17·32 |
| Mean Temperature | ... | ... | 51·1 |
| Total Rainfall in inches | ... | ... | 26·68 |

Statistics.

Population.—The population estimated to the middle of 1904 was 198,038.

TABLE I.

Table showing the Population, Marriages, Inhabited Houses, Births and Deaths, for the year 1904 and the ten preceding years.

GROSS NUMBERS.

| Year | °Estimated Population | No. of Inhabited Houses | Marriages | Registered Births | Total Number of Deaths | | |
|----------------------------|-----------------------|-------------------------|-----------|-------------------|------------------------|--------------|---------------|
| | | | | | Total, all ages | Under 1 year | Under 5 years |
| 1904 | 198,038 | 41,053 | 1,969 | 5,579 | 3,333 | 791 | 335 |
| 1903 | 194,960 | 39,874 | 1,882 | 5,431 | 2,867 | 620 | 889 |
| 1902 | 191,909 | 38,967 | 1,772 | 5,284 | 3,269 | 800 | 1,153 |
| 1901 | 188,855 | 37,983 | 1,766 | 5,267 | 3,367 | 858 | 1,199 |
| 1900 | 185,725 | 38,007 | 1,711 | 4,995 | 3,359 | 771 | 1,123 |
| 1899 | 182,576 | 35,851 | 1,719 | 5,000 | 3,737 | 986 | 1,419 |
| 1898 | 179,500 | 34,967 | 1,684 | 4,971 | 3,048 | 681 | 1,036 |
| 1897 | 176,497 | 34,193 | 1,589 | 4,897 | 2,974 | 819 | 1,129 |
| 1896 | 173,565 | 34,739 | 1,581 | 5,006 | 3,030 | 785 | 1,156 |
| 1895 | 170,672 | 34,230 | 1,432 | 4,868 | 2,129 | 856 | 1,169 |
| 1894 | 167,878 | 31,377 | 1,462 | 4,709 | 2,593 | 611 | 967 |
| Average ten years 1894-'03 | 181,214 | 36,019 | 1,660 | 5,043 | 3,137 | 789 | 1,124 |

°Revised in accordance with Census Returns, 1901.

NOTES.

- 1.—Population at Census, 1901 : { Males 91,069 } ... 188,133
Females 97,064
- 2.—Area in Acres (including extended area) ... 5,861
- 3.—Average number of Persons in each house at Census ... 5
- 4.—Average number of Persons per acre at Census ... 37

Births.—There is again this year a slight increase in the birth rate. The total number of births registered was 5,579, which gives a rate of 28·27 per 1000. There has been a slight but steady increase since 1902, as will be seen from Table II.

The numbers of births in the different quarters were as follows :—

| | | |
|---------------------------------|-----|--------------|
| First Quarter, ending April 2nd | ... | 1,366 births |
| Second „ „ July 2nd | ... | 1,336 „ |
| Third „ „ October 1st | ... | 1,455 „ |
| Fourth „ „ December 1st | ... | 1,422 „ |

Marriages.—1969 Marriages took place in 1904. This is 87 more than in the previous year, and gives a marriage rate of 19·97.

Deaths.—The Deaths registered numbered 3,333, giving a death rate of 16·88 per 1000.

Deaths were registered in the four quarters of the year as follows—

| | | | |
|---------------|-------------|------------------|---------------|
| First Quarter | 920 deaths, | equal to rate of | 18·6 per 1000 |
| Second „ | 694 „ | „ | 14·1 „ |
| Third „ | 818 „ | „ | 16·6 „ |
| Fourth „ | 901 „ | „ | 18·2 „ |

The corrected death rate of 17·30 per 1000 places Portsmouth fourteenth in the list of the 37 great towns of England and Wales. The lowest death rate is that of Willesden, 12·00, and the highest that of Liverpool, 24·18 per 1000.

TABLE II.

° Table showing the Annual Birth-rate, Rate of Mortality, and Death-rates among Children for the year 1904, and ten years preceding.

| Year | Birth-rate per 1000 of the Population | Annual Rate of Mortality living from all causes | Annual Rate of Mortality per 1000 living from 7 principal Zymotic Diseases | Deaths of Children under 1 year : Percentage to total Deaths | Percentage of Deaths of Children under 1 year to Registered Births | Deaths of Children under 5 years : Percentage to Total Deaths |
|---|--|--|---|--|--|---|
| 1904 | 28·27 | 16·88 | 2·11 | 23·7 | 14·2 | 33·5 |
| 1903 | 27·95 | 14·75 | 1·49 | 21·6 | 11·2 | 31·0 |
| 1902 | 27·53 | 17·03 | 2·35 | 24·4 | 15·1 | 35·2 |
| 1901 | 27·88 | 17·82 | 2·87 | 25·4 | 16·2 | 35·6 |
| 1900 | 26·89 | 18·09 | 2·46 | 22·9 | 17·4 | 33·4 |
| 1899 | 27·33 | 20·47 | 3·53 | 26·4 | 19·7 | 37·8 |
| 1898 | 26·58 | 16·98 | 2·38 | 22·3 | 13·7 | 34·0 |
| 1897 | 27·74 | 16·85 | 2·62 | 27·5 | 16·7 | 37·9 |
| 1896 | 28·84 | 17·46 | 2·36 | 25·9 | 15·6 | 31·1 |
| 1895 | 28·52 | 18·33 | 2·36 | 27·3 | 17·6 | 37·5 |
| 1894 | 28·05 | 15·44 | 2·11 | 23·5 | 12·9 | 37·3 |
| Average of 10 years, 1894-1903 | 27·13 | 17·32 | 2·45 | 24·7 | 15·6 | 35·8 |

° Revised in accordance with the Census returns of 1901.

TABLE III.

Showing the Population, Birth Rates, Recorded Death Rates, Corrected Death Rates, Zymotic Rates, and Deaths under 1 year to 1000 Births in the 37 Large Towns for the year 1904 (52 weeks).

| NAME OF TOWNS | Popula- tion middle of 1904 | 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 of Cols. 5-11 | |
| Col. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| WILLESDEN ... | 132,566 | 32·7 | 11·19 | 12·00 | ... | 0·30 | 0·02 | 0·14 | 0·08 | 0·05 | 1·03 | 1·62 | 114 |
| WALTHAMSTOW | 111,282 | 32·5 | 12·17 | 12·87 | 0·01 | 0·50 | 0·14 | 0·24 | 0·30 | 0·09 | 1·59 | 2·87 | 140 |
| LEYTON ... | 110,844 | 28·7 | 12·67 | 13·03 | ... | 0·21 | 0·06 | 0·11 | 0·42 | 0·09 | 1·67 | 2·56 | 143 |
| SOUTHAMPTON | 111,500 | 26·8 | 13·74 | 13·66 | ... | ... | 0·01 | 0·11 | 0·15 | 0·02 | 0·79 | 1·08 | 115 |
| EAST HAM ... | 116,902 | 31·8 | 13·08 | 13·95 | ... | 0·53 | 0·09 | 0·42 | 0·22 | 0·13 | 1·74 | 3·13 | 154 |
| CROYDON ... | 144,419 | 26·0 | 13·80 | 14·15 | ... | 0·42 | 0·05 | 0·17 | 0·10 | 0·04 | 0·64 | 2·42 | 130 |
| TOTTENHAM ... | 112,981 | 31·8 | 13·86 | 14·96 | 0·01 | 0·36 | 0·07 | 0·20 | 0·16 | 0·06 | 1·28 | 2·13 | 139 |
| LEICESTER ... | 224,186 | 26·6 | 14·51 | 15·48 | 0·02 | 0·14 | 0·02 | 0·03 | 0·39 | 0·06 | 1·31 | 1·97 | 167 |
| BRISTOL ... | 343,204 | 26·7 | 15·62 | 16·03 | 0·00 | 0·30 | 0·11 | 0·30 | 0·34 | 0·08 | 0·51 | 1·64 | 134 |
| CARDIFF ... | 176,313 | 29·6 | 14·83 | 16·13 | 0·01 | 0·36 | 0·14 | 0·18 | 0·34 | 0·05 | 0·72 | 1·80 | 146 |
| BRIGHTON ... | 126,286 | 23·5 | 16·60 | 16·36 | ... | 0·72 | 0·02 | 0·12 | 0·29 | 0·06 | 0·43 | 1·64 | 134 |
| DERBY ... | 120,449 | 27·4 | 15·30 | 16·49 | 0·03 | 0·12 | 0·03 | 0·25 | 0·23 | 0·06 | 0·68 | 1·40 | 143 |
| HALIFAX ... | 107,580 | 20·0 | 15·45 | 16·74 | 0·08 | 0·44 | 0·21 | 0·16 | 0·18 | 0·09 | 0·34 | 1·50 | 128 |
| PORTSMOUTH | 198,038 | 28·3 | 16·88 | 17·30 | ... | 0·01 | 0·11 | 0·36 | 0·40 | 0·17 | 1·08 | 2·13 | 145 |
| NORWICH ... | 115,538 | 27·6 | 18·23 | 17·41 | ... | 1·15 | 0·03 | 0·07 | 0·34 | 0·14 | 1·18 | 2·91 | 180 |
| LONDON ... | 4,648,950 | 27·9 | 16·63 | 17·48 | 0·01 | 0·49 | 0·08 | 0·16 | 0·33 | 0·07 | 1·04 | 2·18 | 146 |
| WEST HAM ... | 288,424 | 32·3 | 16·45 | 17·59 | 0·00 | 0·60 | 0·14 | 0·15 | 0·35 | 0·11 | 2·08 | 3·43 | 162 |
| PLYMOUTH ... | 114,003 | 25·4 | 18·54 | 18·08 | ... | 0·69 | 0·32 | 0·12 | 0·24 | 0·14 | 1·02 | 2·53 | 172 |
| SHEFFIELD ... | 432,940 | 32·0 | 16·79 | 18·10 | 0·00 | 0·08 | 0·20 | 0·11 | 0·34 | 0·12 | 1·35 | 2·20 | 158 |
| NOTTINGHAM... | 248,811 | 27·7 | 17·70 | 18·65 | 0·05 | 0·18 | 0·11 | 0·28 | 0·36 | 0·23 | 1·37 | 2·58 | 176 |
| SOUTH SHIELDS | 107,334 | 34·0 | 17·90 | 18·95 | 0·07 | 0·27 | 0·07 | 0·12 | 0·58 | 0·07 | 0·58 | 1·76 | 145 |
| HULL ... | 253,865 | 31·0 | 18·56 | 19·02 | 0·02 | 0·71 | 0·05 | 0·25 | 0·26 | 0·15 | 2·68 | 4·12 | 178 |
| BOLTON ... | 175,744 | 26·8 | 16·91 | 19·12 | 0·01 | 0·07 | 0·13 | 0·16 | 0·75 | 0·22 | 0·94 | 2·28 | 168 |
| BLACKBURN ... | 132,134 | 23·4 | 16·93 | 19·14 | ... | 0·48 | 0·10 | 0·08 | 0·73 | 0·16 | 0·81 | 2·36 | 191 |
| BRADFORD ... | 285,089 | 22·1 | 17·64 | 19·50 | 0·01 | 0·52 | 0·15 | 0·57 | 0·17 | 0·17 | 0·83 | 2·42 | 166 |
| GATESHEAD ... | 118,067 | 34·4 | 18·51 | 19·51 | 0·29 | 0·34 | 0·17 | 0·12 | 0·77 | 0·06 | 1·13 | 2·88 | 174 |
| LEEDS ... | 450,142 | 28·0 | 18·02 | 19·66 | 0·00 | 0·76 | 0·13 | 0·10 | 0·47 | 0·11 | 0·99 | 2·56 | 175 |
| SUNDERLAND... | 151,157 | 34·5 | 19·46 | 20·07 | 0·01 | 0·40 | 0·02 | 0·18 | 0·42 | 0·21 | 1·09 | 2·33 | 164 |
| OLDHAM ... | 131,497 | 24·9 | 18·19 | 20·45 | 0·10 | 0·47 | 0·15 | 0·25 | 0·27 | 0·16 | 0·91 | 2·31 | 156 |
| NEWCASTLE ... | 225,362 | 30·5 | 19·36 | 20·88 | 0·08 | 0·25 | 0·11 | 0·22 | 0·58 | 0·04 | 0·51 | 1·79 | 156 |
| BIRKENHEAD | 114,814 | 33·2 | 19·64 | 20·93 | 0·01 | 0·90 | 0·17 | 0·24 | 0·73 | 0·12 | 1·54 | 3·71 | 181 |
| PRESTON ... | 115,055 | 28·1 | 19·20 | 21·00 | 0·06 | 0·64 | 0·05 | 0·20 | 0·28 | 0·27 | 1·43 | 2·93 | 185 |
| RHONDDA ... | 122,310 | 39·8 | 19·11 | 21·02 | ... | 0·84 | 0·17 | 0·25 | 0·43 | 0·35 | 1·76 | 3·80 | 190 |
| BIRMINGHAM... | 537,965 | 31·6 | 19·88 | 21·39 | ... | 0·38 | 0·12 | 0·24 | 0·85 | 0·07 | 1·76 | 3·42 | 197 |
| SALFORD ... | 228,983 | 31·8 | 21·18 | 23·40 | 0·01 | 1·11 | 0·25 | 0·49 | 0·62 | 0·23 | 1·66 | 3·37 | 192 |
| MANCHESTER | 557,938 | 31·3 | 21·27 | 23·76 | 0·02 | 0·76 | 0·15 | 0·17 | 0·50 | 0·12 | 1·37 | 3·09 | 187 |
| LIVERPOOL ... | 723,430 | 33·7 | 22·59 | 24·18 | 0·00 | 0·94 | 0·20 | 0·27 | 0·58 | 0·15 | 2·52 | 4·66 | 196 |

TABLE IV.—Continued.

| CAUSE OF DEATH. | A G E S . | | | | | | | | | | DISTRICTS. | | | | | Total | | | |
|---|-----------|--------|---------|----------|----------|----------|----------|----------|----------|----------|------------|-------------|---------|----------|----------|-------|-----|-----|--|
| | | | | | | | | | | | Portsmouth | Portsea | Kington | 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 | | | | | | | |
| Class V. | | | | | | | | | | | | | | | | | | | |
| DEVELOPMENTAL DISEASES— | | | | | | | | | | | | | | | | | | | |
| Premature Birth | 109 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 3 | 8 | 50 | 38 | 10 | 109 | |
| Atelectasis | 3 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 1 | ... | 3 | |
| Congenital Malformations | 12 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 3 | 3 | 6 | ... | 12 | |
| Old Age | ... | ... | ... | ... | ... | ... | ... | 1 | 3 | 62 | 133 | 67 | 2 | 7 | 138 | 101 | 18 | 266 | |
| Class VI. | | | | | | | | | | | | | | | | | | | |
| LOCAL DISEASES— | | | | | | | | | | | | | | | | | | | |
| <i>Order 1.—Diseases of Nervous System</i> | | | | | | | | | | | | | | | | | | | |
| Inflammation of Brain or its Membranes | 12 | 8 | 8 | 5 | 2 | ... | 1 | 1 | 1 | 2 | ... | ... | 1 | 1 | 22 | 12 | 4 | 40 | |
| Apoplexy, Softening of Brain, Hemiplegia, Brain Paralysis | ... | ... | ... | 4 | 6 | 15 | 30 | 16 | 28 | 58 | 41 | 1 | 4 | 10 | 102 | 66 | 17 | 199 | |
| Insanity, General Paralysis of the Insane | ... | ... | ... | ... | 2 | 4 | 4 | 5 | 3 | 1 | ... | ... | ... | ... | 19 | ... | ... | 19 | |
| Epilepsy | 1 | ... | 1 | 1 | 2 | 3 | 4 | ... | ... | ... | 1 | ... | ... | 1 | 7 | 5 | ... | 13 | |
| Convulsions | 41 | 14 | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 3 | 1 | 21 | 28 | 3 | 56 | |
| Laryngismus Stridulus (Spasm of Glottis) | 7 | 1 | 2 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 6 | 2 | 2 | 10 | |
| Diseases of Spinal Cord, Paraplegia, Paralysis Agitans | 3 | 1 | 1 | 1 | 2 | 3 | 5 | 1 | 4 | 9 | 1 | ... | 2 | 3 | 15 | 10 | 1 | 31 | |
| Other Diseases of Nervous System | ... | ... | ... | ... | 1 | 1 | 1 | ... | 1 | ... | ... | ... | ... | 2 | 2 | ... | ... | 4 | |
| <i>Order 2.—Diseases of Special Sense (e.g., of Ear, Eye, Nose)</i> | | | | | | | | | | | | | | | | | | | |
| ... | ... | ... | 1 | 1 | ... | 1 | 1 | ... | ... | ... | ... | ... | ... | ... | 1 | 2 | 1 | 4 | |
| <i>Order 3.—Diseases of Circulatory System</i> | | | | | | | | | | | | | | | | | | | |
| Pericarditis | ... | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 1 | |
| Acute Endocarditis | ... | ... | 2 | 2 | 1 | ... | ... | ... | ... | 1 | ... | ... | ... | ... | 2 | 5 | ... | 7 | |
| Valvular Disease of Heart | 2 | 1 | 4 | 9 | 8 | 9 | 16 | 10 | 12 | 21 | 12 | 1 | 4 | 15 | 36 | 43 | 7 | 105 | |
| Other Diseases of Heart | 3 | 2 | 7 | 3 | 14 | 27 | 35 | 21 | 20 | 38 | 35 | 8 | 2 | 13 | 108 | 70 | 20 | 213 | |
| Aneurism | ... | ... | ... | ... | 2 | 7 | 3 | 2 | 1 | 1 | ... | ... | 3 | 2 | 7 | 4 | ... | 16 | |
| Embolism, Thrombosis | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | ... | ... | ... | ... | 1 | 1 | ... | 2 | |
| Other Diseases of Blood Vessels | ... | ... | ... | 1 | 2 | ... | 2 | ... | ... | 1 | 1 | ... | 1 | 1 | 5 | 1 | 1 | 9 | |

TABLE IV.—Continued.

| CAUSE OF DEATH. | A G E S. | | | | | | | | | | DISTRICTS. | | | | | Total | | |
|--|----------|--------|---------|----------|----------|----------|----------|----------|----------|----------|------------|-------------|-----------|-----------|-----------|-------|-----|-----|
| | | | | | | | | | | | Portsmouth | Portsea | Kings-ton | Land-port | South-sea | | | |
| | 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 | | | | | | |
| Class VII. | | | | | | | | | | | | | | | | | | |
| DEATHS FROM VIOLENCE— | | | | | | | | | | | | | | | | | | |
| <i>Order 1.—Accident or Negligence</i> | | | | | | | | | | | | | | | | | | |
| Fractures, Contusions | ... | 1 | 1 | 2 | 1 | 1 | 2 | 1 | ... | 2 | 2 | 1 | 1 | ... | 8 | 2 | 2 | 13 |
| Cut, Stab | ... | ... | ... | ... | 1 | 1 | ... | ... | ... | ... | ... | ... | ... | ... | 2 | ... | ... | 2 |
| Burns, Scalds | ... | 2 | ... | ... | ... | ... | 2 | ... | 1 | ... | ... | ... | ... | ... | 7 | ... | ... | 7 |
| Poison | ... | 1 | ... | 1 | ... | ... | 1 | 1 | ... | ... | ... | ... | ... | ... | 4 | 1 | ... | 5 |
| Drowning | ... | ... | 1 | 2 | 1 | 1 | 1 | 1 | ... | 3 | ... | ... | 6 | ... | 2 | 2 | 1 | 11 |
| Suffocation | ... | 1 | ... | 2 | 2 | ... | ... | ... | 1 | ... | ... | ... | ... | 1 | 9 | 8 | 2 | 20 |
| Otherwise | ... | 2 | 5 | 1 | 1 | ... | 4 | 1 | 1 | 1 | 7 | ... | 1 | 3 | 11 | 7 | 1 | 23 |
| <i>Order 2.—Homicide</i> | | | | | | | | | | | | | | | | | | |
| Murder | ... | ... | ... | ... | ... | ... | 1 | ... | ... | 1 | ... | ... | ... | ... | 2 | ... | ... | 2 |
| <i>Order 3.—Suicide</i> | | | | | | | | | | | | | | | | | | |
| Gunshot Wounds | ... | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | ... | ... | ... | 1 |
| Cut, Stab | ... | ... | ... | ... | 2 | ... | 1 | ... | ... | ... | ... | ... | ... | ... | 2 | 2 | ... | 4 |
| Poison | ... | ... | ... | 1 | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 3 | ... | ... | 3 |
| Drowning | ... | ... | ... | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 1 |
| Hanging | ... | ... | ... | ... | 1 | ... | 1 | 1 | ... | ... | ... | ... | 1 | ... | 1 | 1 | ... | 3 |
| Class VIII. | | | | | | | | | | | | | | | | | | |
| DEATHS FROM ILL-DEFINED AND NOT SPECIFIED CAUSES | | | | | | | | | | | | | | | | | | |
| Dropsy | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | ... | ... | 1 |
| Debility, Atrophy, Inanition | ... | 3 | ... | ... | ... | ... | ... | 1 | 1 | ... | ... | ... | 2 | 10 | 54 | 42 | 6 | 114 |
| Mortification | ... | ... | ... | ... | ... | ... | ... | 2 | 1 | 1 | ... | ... | 1 | ... | ... | 1 | ... | 2 |
| Tumour | ... | ... | 1 | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 5 | ... | ... | 6 |
| Abscess | ... | 2 | ... | 1 | 1 | ... | 2 | ... | ... | ... | ... | ... | ... | ... | 3 | 5 | ... | 8 |
| Hæmorrhage | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | ... | 1 |
| Causes not Specified or Ill-Defined | ... | ... | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | 1 | ... | ... | ... | ... | 1 |

SUMMARY OF TABLE IV.

| Class | DISEASES. | | | | | Number of Deaths |
|-------|-------------------------------------|--|-----|-----|-----|------------------------|
| I. | ZYMOTIC DISEASES— | | | | | |
| | 1. | Miasmatic Diseases | ... | ... | ... | 248 |
| | 2. | Diarrhoeal Diseases | ... | ... | ... | 213 |
| | 3. | Malarial Diseases | ... | ... | ... | 1 |
| | 4. | Zoogenous Diseases | ... | ... | ... | ... |
| | 5. | Venereal Diseases | ... | ... | ... | 17 |
| | 6. | Septic Diseases | ... | ... | ... | 13 |
| II. | PARASITIC DISEASES | | | | | 1 |
| III. | DIETETIC DISEASES | | | | | 22 |
| IV. | CONSTITUTIONAL DISEASES | | | | | 625 |
| V. | DEVELOPMENTAL DISEASES | | | | | 390 |
| VI. | LOCAL DISEASES— | | | | | |
| | 1. | Diseases of the Nervous System | ... | ... | ... | 372 |
| | 2. | " " Organs of Special Sense | ... | ... | ... | 4 |
| | 3. | " " Circulatory System | ... | ... | ... | 353 |
| | 4. | " " Respiratory System | ... | ... | ... | 529 |
| | 5. | " " Digestive System | ... | ... | ... | 177 |
| | 6. | " " Lymphatic System | ... | ... | ... | 1 |
| | 7. | " " Gland-like Organs of Uncertain Use | ... | ... | ... | ... |
| | 8. | " " Urinary System | ... | ... | ... | 115 |
| | 9. | " " Reproductive System— | | | | |
| | | (a) Organs of Generation | ... | ... | ... | 1 |
| | | (b) Parturition | ... | ... | ... | 16 |
| | 10. | " " Bones and Joints | ... | ... | ... | 5 |
| | 11. | " " Integumentary System | ... | ... | ... | 2 |
| VII. | VIOLENCE— | | | | | |
| | 1. | Accidents or Negligence | ... | ... | ... | 81 |
| | 2. | Homicide | ... | ... | ... | 2 |
| | 3. | Suicide | ... | ... | ... | 12 |
| VIII. | ILL-DEFINED OR NOT SPECIFIED CAUSES | | | | | 133 |

TABLE V.

Deaths Registered at several groups of ages from different classes of Diseases during Quarter ending April 2nd, 1904.

| CAUSE OF DEATH. | | A G E S | | | | | | | | | | 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 | Kings-ton | | Land-port | South-sea |
| Class | | | | | | | | | | | | | | | | | | | |
| I.—ZYMOTIC DISEASES— <i>Order 1—Miasmatic Diseases</i> | | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| | Scarlet Fever ... | ... | 4 | 3 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 5 | 2 | ... | 7 | |
| | Whooping Cough ... | 22 | 25 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 4 | 2 | 36 | 4 | 1 | 47 | |
| | Diphtheria ... | ... | 9 | 9 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 13 | 4 | ... | 18 | |
| | Simple Continued Fever | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 3 | ... | 5 | |
| | Enteric or Typhoid Fever | ... | 2 | 1 | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 11 | 2 | ... | 13 | |
| | Other Miasmatic Diseases (Influenza) | ... | ... | ... | ... | 2 | 1 | ... | 2 | 7 | 1 | ... | ... | 1 | ... | ... | ... | 1 | |
| <i>Order 2—Diarrheal Diseases</i> | | ... | ... | ... | ... | 1 | ... | 1 | ... | 1 | ... | ... | ... | ... | 2 | 2 | ... | 4 | |
| | Diarrhoea, Dysentery ... | ... | 1 | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| <i>Order 5—Venereal Diseases</i> | | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 2 | ... | 4 | |
| | Syphilis ... | 4 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 2 | ... | 4 | |
| | Gonorrhoea, Stricture of Urethra | ... | ... | ... | 1 | ... | ... | ... | ... | 1 | ... | ... | ... | ... | 2 | ... | ... | 2 | |
| <i>Order 6—Septic Diseases</i> | | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | |
| | Erysipelas ... | 1 | ... | ... | ... | ... | 1 | 1 | ... | ... | 1 | ... | ... | ... | 3 | 1 | ... | 4 | |
| | Puerperal Fever | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | ... | 1 | |
| II.—PARASITIC DISEASES ... | | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | ... | 1 | |
| III.—DIETETIC DISEASES ... | | ... | ... | ... | ... | ... | 1 | ... | ... | 1 | ... | ... | ... | ... | ... | 1 | ... | 2 | |
| IV.—CONSTITUTIONAL DISEASES | | ... | 9 | 5 | 14 | 23 | 27 | 14 | 14 | 10 | 2 | ... | 1 | 8 | 83 | 44 | 8 | 144 | |
| V.—DEVELOPMENTAL DISEASES | | ... | ... | ... | ... | ... | ... | ... | ... | 23 | 34 | 19 | 3 | 5 | 49 | 45 | 9 | 111 | |
| VI.—LOCAL DISEASES | | ... | 61 | 21 | 11 | 18 | 36 | 37 | 31 | 75 | 56 | 11 | 12 | 22 | 238 | 183 | 42 | 497 | |
| VII.—DEATHS FROM VIOLENCE | | ... | 3 | 2 | 1 | 3 | 1 | 5 | 1 | 3 | 4 | 1 | 2 | 2 | 17 | 7 | 1 | 29 | |
| VIII.—NOT SPECIFIED OR ILL-DEFINED | | ... | 2 | 2 | 1 | ... | ... | ... | ... | ... | ... | ... | ... | 5 | 12 | 11 | 2 | 30 | |
| TOTALS | | 203 | 116 | 44 | 27 | 47 | 60 | 72 | 54 | 47 | 121 | 98 | 31 | 22 | 46 | 478 | 311 | 63 | 920 |

TABLE VI.
Deaths Registered at several groups of ages from different classes of Diseases during Quarter ending July 2nd, 1904.

| CAUSE OF DEATH | A G E S . | | | | | | | | | | | 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 | Kington | Land-port | | South-sea |
| Class I.—ZYMOTIC DISEASES— <i>Order 1—Miasmatic Diseases</i> | | | | | | | | | | | | | | | | | | |
| Scarlet Fever ... | 2 | 4 | 2 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 3 | 4 | ... | 8 |
| Whooping Cough ... | 3 | 10 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 4 | 9 | ... | 13 |
| Diphtheria ... | ... | 4 | 6 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 6 | 2 | 1 | 10 |
| Enteric or Typhoid Fever | ... | 1 | 2 | ... | 1 | ... | ... | ... | ... | 1 | ... | ... | ... | ... | 4 | 1 | ... | 5 |
| Other Miasmatic Diseases (Influenza) | ... | ... | 1 | ... | ... | ... | ... | ... | ... | 4 | 1 | ... | ... | ... | 4 | ... | 2 | 6 |
| <i>Order 2—Diarrhoeal Diseases</i> | | | | | | | | | | | | | | | | | | |
| Diarrhoea, Dysentery ... | 8 | 3 | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | ... | ... | 5 | 7 | ... | 12 |
| <i>Order 5—Venereal Diseases</i> | | | | | | | | | | | | | | | | | | |
| Syphilis ... | 1 | ... | ... | ... | 2 | 1 | ... | ... | ... | ... | ... | ... | ... | ... | 4 | ... | ... | 4 |
| Gonorrhoea ... | ... | ... | ... | ... | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 1 |
| <i>Order 6—Septic Diseases</i> | | | | | | | | | | | | | | | | | | |
| Pyæmia, Septicæmia ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | ... | ... | ... | ... | ... | 1 | ... | ... | 1 |
| Puerperal Fever ... | ... | ... | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | ... | 1 |
| Class II.—PARASITIC DISEASES ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Class III.—DIETETIC DISEASES ... | ... | ... | ... | ... | 2 | 3 | ... | 1 | ... | ... | ... | ... | ... | ... | 3 | 2 | 1 | 6 |
| Class IV.—CONSTITUTIONAL DISEASES ... | ... | 14 | 8 | 23 | 26 | 27 | 23 | 11 | 9 | 16 | 6 | ... | 4 | 9 | 92 | 55 | 12 | 172 |
| Class V.—DEVELOPMENTAL DISEASES ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 16 | 38 | 14 | 1 | 3 | 52 | 30 | 8 | 94 |
| Class VI.—LOCAL DISEASES ... | ... | 31 | 13 | 12 | 13 | 32 | 46 | 19 | 24 | 47 | 22 | 2 | 8 | 18 | 153 | 109 | 27 | 315 |
| Class VII.—DEATHS FROM VIOLENCE ... | ... | 1 | 3 | ... | 3 | 1 | 2 | 1 | 2 | 1 | 4 | ... | 3 | 1 | 11 | 5 | 1 | 21 |
| Class VIII.—NOT SPECIFIED OR ILL-DEFINED ... | ... | ... | ... | ... | 1 | ... | 2 | ... | ... | ... | ... | ... | 1 | 1 | 12 | 11 | ... | 25 |
| TOTALS | 127 | 68 | 35 | 35 | 49 | 64 | 74 | 33 | 36 | 85 | 72 | 16 | 17 | 34 | 355 | 236 | 52 | 694 |

TABLE VII.
Deaths registered at several groups of ages from different classes of Diseases during Quarter ending Oct. 1st, 1904.

| CAUSE OF DEATH | A G E S . | | | | | | | | | | | DISTRICTS. | | | | | Totals | | |
|--------------------------------------|-----------|--------|---------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|---------|-----------|-----------|-----------|--------|-----|-----|
| | | | | | | | | | | | | Portsmouth | Portsea | Kings-ton | Land-port | South-sea | | | |
| | 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 | | | | | | | |
| Class | | | | | | | | | | | | | | | | | | | |
| I.—ZYMOTIC DISEASES— | | | | | | | | | | | | | | | | | | | |
| Order 1— <i>Miasmatic Diseases</i> | | | | | | | | | | | | | | | | | | | |
| Measles ... | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | ... | ... | 1 |
| Scarlet Fever ... | ... | 1 | 2 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | 2 | ... | ... | ... | 3 |
| Whooping Cough ... | 6 | 2 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 5 | 2 | ... | ... | 8 |
| Diphtheria ... | 1 | 11 | 11 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 13 | 7 | 2 | ... | 23 |
| Enteric or Typhoid Fever | ... | 2 | 2 | 3 | 1 | 1 | ... | ... | ... | ... | ... | ... | ... | 1 | 8 | 1 | ... | ... | 10 |
| Other Miasmatic Diseases | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| (Influenza) | ... | ... | ... | ... | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | ... | 1 |
| Order 2— <i>Diarrhoeal Diseases</i> | | | | | | | | | | | | | | | | | | | |
| Diarrhoea, Dysentery ... | 143 | 27 | ... | ... | ... | ... | 1 | ... | 3 | 2 | ... | ... | 2 | 11 | 95 | 58 | 10 | ... | 176 |
| Order 3— <i>Malarial Diseases</i> | | | | | | | | | | | | | | | | | | | |
| Remittent Fever ... | ... | ... | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | ... | 1 |
| Order 5— <i>Veneral Diseases</i> | | | | | | | | | | | | | | | | | | | |
| Syphilis ... | 2 | ... | ... | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | 3 | ... | ... | ... | 3 |
| Gonorrhoea, Stricture of Urethra ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | ... | ... | 1 |
| Order 6— <i>Septic Diseases</i> | | | | | | | | | | | | | | | | | | | |
| Pyæmia, Septicæmia ... | ... | ... | ... | ... | 1 | ... | ... | ... | 1 | ... | ... | ... | ... | ... | 2 | ... | ... | ... | 2 |
| Puerperal Fever ... | ... | ... | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | ... | 1 |
| II.—PARASITIC DISEASES ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| III.—DIETETIC DISEASES ... | 1 | ... | ... | ... | 1 | 2 | 2 | 2 | 2 | 1 | ... | ... | ... | ... | 6 | 2 | ... | ... | ... |
| IV.—CONSTITUTIONAL DISEASES | 10 | 12 | 8 | 15 | 32 | 15 | 19 | 16 | 9 | 12 | 6 | ... | 3 | 6 | 83 | 44 | 8 | ... | 144 |
| V.—DEVELOPMENTAL DISEASES | 28 | ... | ... | ... | ... | ... | ... | ... | 2 | 11 | 22 | 15 | 1 | 1 | 44 | 29 | 3 | ... | 78 |
| VI.—LOCAL DISEASES ... | 55 | 20 | 13 | 10 | 15 | 16 | 40 | 16 | 29 | 47 | 34 | 1 | 4 | 17 | 153 | 108 | 14 | ... | 296 |
| VII.—DEATHS FROM VIOLENCE | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| VIII.—NOT SPECIFIED OR ILL-DEFINED | 3 | 3 | 2 | 4 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | ... | 3 | ... | 10 | 5 | 3 | ... | 21 |
| | 32 | 1 | ... | ... | ... | 2 | ... | 1 | 1 | 1 | ... | ... | 1 | 4 | 19 | 12 | 2 | ... | 38 |
| TOTALS | 281 | 79 | 39 | 32 | 44 | 37 | 65 | 39 | 44 | 77 | 65 | 16 | 16 | 44 | 445 | 271 | 42 | ... | 818 |

TABLE VIII.

Deaths Registered at several groups of ages from different classes of Diseases during Quarter ending Jan. 3rd, 1905.

| CAUSE OF DEATH | A G E S . | | | | | | | | | | 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 | Kington | | Landport | Southsea |
| Class | | | | | | | | | | | | | | | | | | |
| I.—ZYMOTIC DISEASES— | | | | | | | | | | | | | | | | | | |
| <i>Order 1—Miasmatic Diseases</i> | | | | | | | | | | | | | | | | | | |
| Scarlet Fever ... | ... | 2 | 2 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 2 | ... | 4 |
| Whooping Cough ... | 3 | 3 | 2 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | 6 | ... | 8 |
| Diphtheria ... | ... | 11 | 7 | 2 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 14 | 5 | 1 | 20 |
| Enteric or Typhoid Fever | ... | ... | 1 | 4 | 2 | 2 | 1 | ... | 3 | ... | ... | ... | ... | ... | 10 | 1 | 2 | 13 |
| Other Miasmatic Diseases (Influenza) | ... | 1 | 1 | 1 | ... | 1 | 1 | 2 | 2 | 6 | 8 | 1 | ... | 1 | 18 | 5 | ... | 24 |
| <i>Diarrhoeal Diseases</i> | | | | | | | | | | | | | | | | | | |
| Diarrhoea, Dysentery ... | 20 | ... | ... | ... | ... | ... | ... | ... | 1 | ... | ... | ... | ... | 2 | 14 | 5 | ... | 21 |
| <i>Order 5—Venereal Diseases</i> | | | | | | | | | | | | | | | | | | |
| Syphilis ... | 1 | ... | ... | ... | ... | ... | 1 | ... | ... | ... | ... | ... | ... | 1 | 1 | ... | ... | 2 |
| <i>Order 6—Septic Diseases</i> | | | | | | | | | | | | | | | | | | |
| Erysipelas ... | 2 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 | ... | ... | 2 |
| Pyæmia, Septicæmia ... | ... | ... | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 1 | ... | ... | 1 |
| II.—PARASITIC DISEASES ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| III.—DIETETIC DISEASES ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| IV.—CONSTITUTIONAL DISEASES | 7 | 8 | 4 | 25 | 23 | 35 | 31 | 9 | 9 | 13 | 1 | ... | 1 | 11 | 94 | 50 | 9 | 165 |
| V.—DEVELOPMENTAL DISEASES | 36 | ... | ... | ... | ... | ... | ... | 1 | ... | 12 | 39 | 19 | ... | 9 | 48 | 42 | 8 | 107 |
| VI.—LOCAL DISEASES ... | 70 | 35 | 16 | 16 | 31 | 40 | 49 | 29 | 32 | 82 | 60 | 7 | ... | 36 | 234 | 156 | 33 | 467 |
| VII.—DEATHS FROM VIOLENCE | 7 | ... | ... | 1 | 4 | 3 | 5 | 2 | ... | 2 | ... | ... | 2 | 1 | 13 | 7 | 1 | 24 |
| VIII.—DEATHS FROM ILL-DEFINED AND NOT SPECIFIED CAUSES | 34 | 2 | ... | ... | ... | ... | ... | ... | 3 | 1 | ... | ... | 2 | 1 | 20 | 14 | 3 | 40 |
| TOTALS | 180 | 62 | 34 | 49 | 61 | 82 | 89 | 43 | 47 | 119 | 108 | 27 | 13 | 62 | 473 | 295 | 58 | 901 |

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, and for the whole Year, 1904.

| Quarter ending | The Seven Principal Zymotic Diseases [°] | | Lung Diseases (excepting Phthisis) [†] | | Phthisis | | From all Causes | |
|-----------------------|---|---------------|---|---------------|----------|---------------|-----------------|---------------|
| | No. | Rate per 1000 | No. | Rate per 1000 | No. | Rate per 1000 | No. | Rate per 1000 |
| April 2nd, 1904 ... | 82 | 1·66 | 206 | 4·20 | 74 | 1·50 | 920 | 18·6 |
| July 2nd, 1904 ... | 48 | 0·97 | 90 | 1·82 | 92 | 1·86 | 694 | 14·1 |
| October 1st, 1904 ... | 221 | 4·47 | 57 | 1·15 | 65 | 1·31 | 818 | 16·6 |
| January 3rd, 1905... | 66 | 1·34 | 157 | 3·18 | 90 | 1·82 | 901 | 18·2 |
| THE YEAR 1904... | 417 | 2·11 | 510 | 2·58 | 321 | 1·62 | 3333 | 16·88 |

[°] Includes Small-Pox, Measles, Scarlet Fever, Whooping Cough, Diphtheria, Enteric or Typhoid Fever, and Diarrhœa.

[†] Includes Emphysema, Asthma, Bronchitis, Pneumonia, Pleurisy, and other Diseases of the Respiratory System.

TABLE X.

DIVISION I.

Showing the number of Deaths from all ages from certain groups of Diseases,
and proportion of Deaths per 1,000 of Population
and to 1,000 Births.

| DISEASES. | Total Deaths | Deaths per 1000 of Population at all ages | Proportion of Deaths to 1000 Births |
|--|--------------|---|-------------------------------------|
| (1) Principal Zymotic Diseases ... | 417 | 2.11 | 74 |
| (2) Pulmonary Diseases (excluding Consumption) ... | 529 | 2.28 | 95 |
| (3) Principal Tubercular Diseases ... | 397 | 2.04 | 71 |

DIVISION II.

Deaths of Infants under one year of age from Wasting and Convulsive Diseases ;
also proportion of Deaths under one year per 1,000 Births, and per
1,000 Deaths from all causes under one year.

| DISEASES. | Total Deaths | Deaths per 1000 Births | Deaths under one year per 1000 of Total Deaths |
|-----------------------------|--------------|------------------------|--|
| (4) Wasting Diseases ... | 220 | 39 | 288 |
| (5) Convulsive Diseases ... | 71 | 13 | 90 |

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, Tabes mesenterica, Tubercular Meningitis, and Hydrocephalus.
- (4) Includes Marasmus, Atrophy, Want of Breast Milk, and Premature Birth.
- (5) Includes Infantile Meningitis, Convulsions and Teething.

TABLE XI.
Showing the number of Deaths in the Years 1861 to 1904, from the Seven Principal Zymotic Diseases.

| 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 | 1896 | 1897 | 1898 | 1899 | 1900 | 1901 | 1902 | 1903 | 1904 | | | | | |
|----------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|-----|-----|-----|-----|-----|
| POPULATION | 96220 | 96960 | 98731 | 100531 | 102363 | 104230 | 106130 | 108064 | 110034 | 112040 | 114083 | 116162 | 118280 | 120436 | 122632 | 124867 | 127144 | 129461 | 131821 | 134235 | 136332 | 138872 | 141441 | 144112 | 146848 | 149662 | 152474 | 155279 | 158067 | 160833 | 162492 | 165153 | 167878 | 170672 | 173565 | 176497 | 179300 | 182576 | 185725 | 188885 | 191309 | 194960 | 198038 | | | | | | |
| DISEASES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Small-Pox | 1 | .. | 12228 | 3 | 1 | 1 | .. | .. | 1 | 1 | 39514 | 45 | 2 | .. | 1 | .. | .. | .. | .. | .. | .. | .. | 1 | .. | .. | 1 | 3 | .. | 2 | .. | .. | .. | 4 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | | | |
| Measles | 3 | 42 | 80 | 6 | 14 | 16 | 82 | 46 | 57 | 39 | 42 | 52 | 16 | 55 | 54 | 109 | 12 | 36 | 10 | 42 | 7156 | 10164 | 7197 | 8 | 50 | 8 | 4 | 223 | 38 | 120 | 139 | 39 | 126 | 35 | 73 | 50 | 3 | 82 | 70 | 17 | 1 | 1 | 1 | 1 | 1 | 1 | | | |
| Scarlet Fever | 5 | 225 | 134 | 17 | 20 | 34 | 15 | 107 | 236 | 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 | 19 | 11 | 31 | 22 | 11 | 15 | 14 | 27 | 22 | 22 | 22 | 22 | 22 | |
| 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 | 26 | 29 | 34 | 18 | 20 | 22 | 54 | 120 | 104 | 70 | 62 | 75 | 71 | 71 | 71 | 71 | 71 | |
| Whooping Cough | 11 | 36 | 16 | 42 | 50 | 46 | 23 | 57 | 26 | 46 | 66 | 17 | 19 | 104 | 8 | 42 | 59 | 92 | 9 | 48 | 66 | 35 | 54 | 9 | 44 | 102 | 41 | 26 | 92 | 39 | 38 | 87 | 36 | 41 | 64 | 60 | 65 | 42 | 62 | 87 | 21 | 92 | 34 | 76 | 76 | 76 | 76 | 76 | |
| Fever | 111 | 128 | 57 | 72 | 74 | 85 | 74 | 119 | 105 | 91 | 72 | 112 | 57 | 101 | 103 | 71 | 87 | 96 | 62 | 70 | 60 | 107 | 93 | 58 | 93 | 124 | 53 | 27 | 32 | 50 | 33 | 42 | 54 | 29 | 37 | 28 | 44 | 44 | 75 | 93 | 43 | 54 | 23 | 34 | 34 | 34 | 34 | 34 | |
| Diarrhoea | 152 | 71 | 68 | 118 | 122 | 117 | 140 | 177 | 170 | 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 | 157 | 286 | 183 | 316 | 159 | 311 | 159 | 115 | 213 | 213 | 213 | 213 | 213 | |
| Totals | 222 | 523 | 391 | 498 | 517 | 530 | 538 | 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 | 534 | 403 | 410 | 4 | 3 | 427 | 645 | 457 | 542 | 451 | 291 | 417 | 417 | 417 | 417 | 417 |

TABLE XII.

VACCINATION RETURNS—1st January to 30th June, 1904.

| Registration Sub-Districts comprised in the Vaccination Officer's District | Number of Births returned in the Birth List Sheets as registered from 1st Jan. to 30th June, 1904 | Number of these Births duly entered by 31st Jan., 1904, in Columns 1, 2, 4 and 5, of the Vaccination Register Birth List Sheets, viz.: | | | | Number of these Births which on 31st Jan., 1904, remained un- entered in the Vaccination Register on account (as shown by Report Book) of | | | | Number of these Births remaining on 31st January, 1904, neither duly entered in the Vaccination Register (columns 3, 4, 5, 6 and 7 of this Return) nor temporarily accounted for in the Report Book (columns 8, 9 and 10 of this Return) |
|--|--|--|--------|-----|---|---|---|---|--|--|
| | | Col. 1 Success- fully Vaccin- ated | Col. 2 | | Col. 4 Number in respect of whom Certifi- cates of Consci- entious Objection have been received | Col. 5 Dead Unvaccin- ated | Postpone- ment by Medical Certifi- cate | Removal to Districts the Vac- cination Officer of which has been duly appraised | Removal to places unknown, or which cannot be reached; and cases not having been found | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 1. North End and Buckland ... | 806 | 698 | 4 | ... | 7 | 82 | 9 | 5 | 1 | ... |
| 2. Kingston and East Southsea... | 670 | 579 | 2 | ... | 9 | 57 | 15 | 5 | 3 | ... |
| 3. Portsea and Landport ... | 723 | 634 | 1 | ... | 3 | 67 | 11 | 4 | 3 | ... |
| 4. Portsmouth and Mid-Southsea | 502 | 446 | ... | ... | 3 | 38 | 9 | 4 | 2 | ... |
| Totals ... | 2701 | 2357 | 7 | ... | 22 | 244 | 44 | 18 | 9 | ... |
| VACCINATION OF CHILDREN whose Births were registered in this District from Jan. 1st to Dec. 31st, 1903, inclusive. | | | | | | | | | | |
| 1. North End and Buckland ... | 1581 | 1401 | 5 | ... | 25 | 128 | 9 | 8 | 5 | ... |
| 2. Kingston and East Southsea... | 1269 | 1147 | 3 | ... | 9 | 93 | 4 | 8 | 5 | ... |
| 3. Portsea and Landport ... | 1504 | 1319 | 2 | ... | 7 | 156 | 4 | 11 | 5 | ... |
| 4. Portsmouth and Mid-Southsea | 1092 | 964 | 2 | ... | 9 | 94 | 6 | 8 | 9 | ... |
| Totals ... | 5446 | 4831 | 12 | ... | 50 | 471 | 23 | 35 | 24 | ... |

VACCINATION RETURNS FOR PAST TEN YEARS.

| Year | No. of Births returned in birth sheets so registered from 1st Jan. to 31st Dec. | Successfully Vaccinated | Insusceptible to Vaccination | Had Small-Pox | Dead Unvaccinated | Postponement by Medical Certificate | Removed to Districts the Vacc. Officer of which has been apprised | Removed to places to places unknown | No. of these births remaining | No. in respect of which Certificates of conscientious objections have been received |
|----------------|---|-------------------------|------------------------------|---------------|-------------------|-------------------------------------|---|-------------------------------------|-------------------------------|---|
| 1894 | 4729 | 4147 | 20 | ... | 412 | 46 | 18 | 82 | 4 | ... |
| 1895 | 4896 | 4183 | 29 | ... | 547 | 31 | 28 | 69 | 9 | ... |
| 1896 | 4920 | 4329 | 25 | ... | 476 | 31 | 35 | 20 | 4 | ... |
| 1897 | 4924 | 4303 | 25 | ... | 473 | 31 | 68 | 18 | 8 | 1 |
| 1898 | 4973 | 4243 | 22 | ... | 518 | 32 | 46 | 26 | 10 | 61 |
| 1899 | 4981 | 4171 | 37 | ... | 645 | 18 | 36 | 21 | 7 | 23 |
| 1900 | 5036 | 4385 | 60 | ... | 521 | 26 | 27 | 20 | 4 | 37 |
| 1901 | 5287 | 4564 | 16 | ... | 587 | 14 | 38 | 18 | 2 | 41 |
| 1902 | 5192 | 4509 | 31 | ... | 547 | 26 | 29 | 19 | ... | 31 |
| 1903 | 5446 | 4831 | 12 | ... | 471 | 23 | 35 | 24 | ... | 50 |
| 1904 (June) | 2701 | 2357 | 7 | ... | 244 | 44 | 18 | 9 | ... | 22 |

Scarlet Fever.—This disease was not so prevalent as in the previous year, 726 cases being notified against 1167 in 1903.

The usual preventative measures were adopted. During last year considerable interest has been aroused in public health circles on the question of the value of isolation hospitals in the control of scarlet fever, and at the Congress of the Royal Institute of Public Health, held in Folkestone in July last, I seconded the following resolution that was proposed by Dr. K. Millard (M.O.H., Leicester): "That as the hospital isolation of scarlet fever has now been tried on a large scale for many years, and as some doubt exists as to whether the results attained are commensurate with the cost, it is desirable in the public interest that a full and authoritative enquiry into the subject should be held." A very lively and interesting discussion followed, and as a result the resolution was carried by 36 votes to 20. This is very instructive as showing how public opinion is gradually undergoing a change; if we had proposed such a resolution 10 years ago it would hardly have been treated seriously; now, however, not only do a large number of medical officers of health openly deny the value of the hospital for preventing scarlet fever, but in addition every medical publication in the country of any standing has given its support to the advisability of an official enquiry into the whole matter.

Personally I believe the principal measures telling for success in the prevention of scarlet fever are the careful protection of milk supplies against infection, and the rapid elimination from the large elementary schools of all children in the earliest stages of the disease. I believe the schools to be the principal causes of the spread, not only of scarlet fever, but all the other infectious diseases of childhood, and it is to these, in the provision of plenty of air space and the careful examination of the pupils, that we must direct our attention in the prevention of infectious diseases.

TABLE XIII.

Showing the number of cases of SCARLET FEVER notified, the number of deaths, and the percentage of deaths to cases notified for the years 1884-1904.

| Year | Cases notified | No. of Deaths | Percentage of Deaths to cases notified |
|------------------|----------------|---------------|--|
| 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 |
| 1897 | 699 | 11 | 1.57 |
| 1898 | 710 | 27 | 3.80 |
| 1899 | 578 | 22 | 3.80 |
| 1900 | 348 | 11 | 3.16 |
| 1901 | 452 | 15 | 3.31 |
| 1902 | 603 | 14 | 2.32 |
| 1903 | 1167 | 17 | 1.46 |
| 1904 | 726 | 22 | 3.03 |
| Total (21 years) | 12437 | 338 | 2.87 |

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.

| Year | Cases admitted | No. of Deaths | Percentage of Deaths to cases treated |
|------------------|----------------|---------------|---------------------------------------|
| 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 | 1.12 |
| 1893 | 503 | 6 | 1.19 |
| 1894 | 238 | 8 | 3.36 |
| 1895 | 177 | 2 | 1.13 |
| 1896 | 352 | 11 | 3.15 |
| 1897 | 413 | 9 | 2.17 |
| 1898 | 436 | 23 | 5.27 |
| 1899 | 333 | 6 | 1.80 |
| 1900 | 198 | 6 | 3.03 |
| 1901 | 270 | 6 | 2.20 |
| 1902 | 339 | 6 | 1.77 |
| 1903 | 572 | 5 | 0.87 |
| 1904 | 340 | 8 | 2.38 |
| Total (21 years) | 5775 | 119 | 1.76 |

Small-Pox.—I am glad to be able to report that no case of this disease occurred in the Borough during the year. I was called in on several occasions to give an opinion on several suspicious looking rashes, but found none to be genuine cases of small-pox.

I append the customary tables showing the vaccination returns in the whole Borough, and the registration sub-districts. It is rather an anomaly that the provisions of the Vaccination Acts, which are purely public health measures, should be administered by the Guardians of the Poor, instead of the Sanitary Authority, which is of course the local administrative body for all other sanitary measures.

Diphtheria.—There was a slight decrease in the number of cases notified this year compared with last year, the figures being 601 and 633 respectively. The percentage of deaths per cases was lower than has ever been recorded before in the Borough, being only 11·81, the average death rate per 100 cases during the past 21 years being 18·82. There is often noticed a variation in the type of a disease at different periods; for instance scarlet fever is a much milder disease now than was the case forty years ago. I do not think, however, that the decrease in death rate in diphtheria can be attributed to this factor; I believe that for it we are solely indebted to antitoxin. It will be noticed on looking at Table XIV. that the case death rate from diphtheria has steadily decreased during the past six years, which corresponds pretty closely to the general use of antitoxin. It is true antitoxin was used to a certain extent before 1899, but its preparation had not then reached the same perfection, and in its use the necessity for large doses in bad cases had not then been so completely realized as at present.

The remarks made with regard to the agency of the large elementary schools in the spread of scarlet fever apply even with more force in the case of diphtheria.

All the houses in which cases of diphtheria occurred were visited, and as a result sanitary defects were found in **166**, or **37·6** per cent.

TABLE XIV.

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 1904.

| Year | Cases notified | No. of Deaths. | Percentage of Deaths to cases notified |
|-------------------|----------------|----------------|--|
| 1884 | 174 | 41 | 23.44 |
| 1885 | 173 | 42 | 24.25 |
| 1886 | 232 | 55 | 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 |
| 1897 | 148 | 22 | 15.07 |
| 1898 | 283 | 54 | 19.08 |
| 1899 | 566 | 120 | 21.20 |
| 1900 | 568 | 104 | 18.30 |
| 1901 | 454 | 70 | 15.41 |
| 1902 | 495 | 62 | 12.52 |
| 1903 | 633 | 75 | 11.84 |
| 1904 | 601 | 71 | 11.81 |
| Totals (21 years) | 5841 | 1020 | 18.82 |

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 1904.

| Year | Cases admitted | No. of Deaths | Percentage of Deaths to cases treated |
|-------------------|----------------|---------------|---------------------------------------|
| 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 | 9.80 |
| 1897 | 37 | 3 | 8.11 |
| 1898 | 118 | 19 | 16.10 |
| 1899 | 225 | 27 | 11.90 |
| 1900 | 211 | 28 | 13.27 |
| 1901 | 170 | 24 | 14.11 |
| 1902 | 197 | 23 | 11.67 |
| 1903 | 211 | 14 | 6.63 |
| 1904 | 220 | 23 | 10.45 |
| Totals (21 years) | 175 | 220 | Mean 13.70 |

TABLE XV.

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 1884-1904.

| 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 |
| 1897 | 320 | 42 | 13·08 |
| 1898 | 305 | 43 | 14·10 |
| 1899 | 531 | 75 | 14·12 |
| 1900 | 1083 | 92 | 8·49 |
| 1901 | 324 | 43 | 13·27 |
| 1902 | 448 | 54 | 12·05 |
| 1903 | 216 | 23 | 10·65 |
| 1904 | 223 | 33 | 14·80 |
| Total (21 years) | 9281 | 1052 | 11·8 |

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 1904.

| Year | Cases admitted | No. of Deaths | Percentage of Deaths to cases treated |
|------------------|----------------|---------------|---------------------------------------|
| 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 |
| 1897 | 102 | 11 | 10·78 |
| 1898 | 92 | 14 | 15·31 |
| 1899 | 96 | 12 | 12·50 |
| 1900 | 157 | 18 | 11·46 |
| 1901 | 101 | 11 | 10·89 |
| 1902 | 105 | 13 | 12·38 |
| 1903 | 70 | 3 | 3·94 |
| 1904 | 73 | 9 | 12·33 |
| Total (21 years) | 1549 | 124 | 7·21 |

Typhoid or Enteric Fever.—The number of cases of this disease were last year very much below the average. It will be remembered that in the previous year (1903), we only had 216 cases of typhoid, which, with the single exception of 1894, was the lowest number recorded during the past 20 years. Last year the number only reached 223 or 7 more than in 1903.

In view of the number of cases that have in the past been attributed to shell-fish, particular enquiries have been made with regard to all the cases occurring in this town and it is noteworthy that 73 had shell-fish (either oysters, cockles, winkles, or mussels) a short time before being attacked, and from these cases, 9 more secondary cases occurred. The shell-fish concerned were cockles in 56 cases, oysters in 12, and mussels and winkles in 3.

I fancy that at the present time cockles are the most frequent cause of typhoid fever, greater attention is now being paid to the cultivation of oysters, consequently fewer cases occur, but cockles are still largely picked off the polluted mud of neighbouring shores, such as at Langston Harbour and near Rudmore, Tipnor, and Stamshaw. These are in the majority of cases improperly cooked before being eaten, and in a number of the cases that came under my observation were indeed eaten raw. A few remarks therefore on the preparation of cockles for food may not be out of place.

The usual method of cooking cockles is by pouring hot or boiling water over them to make them open their shells, or by heating them in boiling water until the water begins to bubble. Now even if the water is boiling when passed over a lot of cockles it rapidly becomes cooled a long way below the boiling point, consequently the cockles in the middle of the heat are never thoroughly exposed to the effects of the heat, and if originally gathered from a polluted source will remain dangerous to anyone eating them; indeed Dr. Klein in the Report of the Medical Officer to the Local Government

Board, 1900-1901, has recorded that the typhoid bacillus can readily be found in the centre of a heap of cockles so treated. As a result of experiments it has been found that the cockles may be considered quite safe for eating, if steamed from three to five minutes under pressure, and this method does not in any way interfere with the palatibility or digestibility of the fish. The same result would probably be obtained by boiling the fish for seven or eight minutes, but as this has the effect of making them hard and indigestible, it is not done in practice. In Leigh the cooking is done on a large scale by steaming under pressure of from 10 to 44lbs., in galvanized iron boxes about 20 feet square by 4 to 5 inches deep. It is found this renders the cockles perfectly safe for food, and moreover does not harden or shrinken, or in any way impair the taste. In this town cockles are largely sold uncooked and the purchaser has to do the cooking himself. As private individuals will not possess the apparatus described above, I suggest the best domestic plan is to steam the fish from 5 to 10 minutes with the lid of the steamer on. I believe this practice will be found generally quite reliable, and seems to me the best that can be advised for general use amongst the public. I believe if this method is generally adopted it will be extremely rare for anyone to contract typhoid fever from eating cockles.

All the premises upon which typhoid fever occurred were examined for sanitary defects, which were found upon **63** or **28·2** per cent.

TABLE XVI.

Showing the relationship of TEMPERATURE and FATAL CASES of
DIARRHŒA.

| Week ending | Temperature of Air | | Temperature of Earth Thermometers | | Total Rainfall in inches | Deaths from Diarrhoea |
|---------------|--------------------|--------------------|--------------------------------------|--------|--------------------------------|-----------------------------|
| | Mean of Maximum | Mean of Minimum | 1 Foot | 4 Feet | | |
| 1904 | | | | | | |
| June 4th ... | 65·8 | 51·9 | 59·1 | 54·9 | ·19 | 2 |
| " 11th ... | 65·3 | 49·6 | 59·5 | 56·2 | ·20 | 4 |
| " 18th ... | 63·1 | 54·2 | 60·8 | 56·8 | ·27 | 1 |
| " 25th ... | 65·5 | 50·6 | 61·1 | 57·8 | ·30 | 2 |
| July 2nd ... | 67· | 53·1 | 62·7 | 58·5 | ·18 | 1 |
| " 9th ... | 69·2 | 55·1 | 63·9 | 59·3 | ·11 | 2 |
| " 16th ... | 74·2 | 59·5 | 68·4 | 60·8 | ... | 1 |
| " 23rd ... | 74·2 | 58·8 | 69·4 | 62·5 | ·12 | 0 |
| " 30th ... | 69·2 | 59·2 | 66·4 | 62·8 | ·85 | 4 |
| Aug. 6th ... | 73 | 59·3 | 67·6 | 62·9 | ·42 | 3 |
| " 13th ... | 69·8 | 54·5 | 65·1 | 63 | ·19 | 14 |
| " 20th ... | 66·9 | 56 | 62·6 | 62·1 | ·61 | 29 |
| " 27th ... | 66·7 | 51·4 | 60·6 | 61·1 | ·67 | 21 |
| Sept. 3rd ... | 68·1 | 67·1 | 62·1 | 61 | ·59 | 30 |
| " 10th ... | 64 | 52·3 | 59·9 | 60·5 | ·33 | 30 |
| " 17th ... | 65·4 | 52·7 | 58·5 | 59·7 | ·90 | 19 |
| " 24th ... | 63·2 | 49·7 | 56·5 | 58·9 | ·03 | 16 |
| Oct. 1st ... | 62·6 | 48·4 | 55·1 | 58·0 | ·46 | 7 |
| " 8th ... | 67·9 | 47·8 | 54·2 | 57·2 | 1·40 | 5 |
| " 15th ... | 58·5 | 45·4 | 52·1 | 55·5 | ... | 3 |
| " 22nd ... | 60·8 | 52·7 | 55·1 | 55·6 | ·41 | 3 |
| " 29th ... | 58 | 45·4 | 52·9 | 55·1 | ·17 | 4 |

TABLE XVII.

WEEKLY RETURN of Cases of Infectious Diseases reported in accordance with the Infectious Disease (Notification) Act, 1889, during the year 1904.

| Week Ending | | Small-pox | Scarlet Fever | Diphtheria | Fevers | | Puerperal Fever | Erysipelas | Croup | Total |
|-------------|----------|-----------|---------------|------------|---------|-----------|-----------------|------------|-------|-------|
| | | | | | Enteric | Continued | | | | |
| January | 9th ... | ... | 22 | 5 | 3 | ... | ... | ... | 2 | 32 |
| " | 16th ... | ... | 16 | 16 | 2 | ... | ... | 2 | ... | 36 |
| " | 23rd ... | ... | 15 | 5 | 3 | ... | ... | 2 | ... | 25 |
| " | 30th ... | ... | 21 | 10 | 4 | ... | 1 | 2 | ... | 38 |
| February | 6th ... | ... | 14 | 9 | 1 | ... | 1 | 5 | ... | 30 |
| " | 13th ... | ... | 16 | 8 | 3 | ... | 2 | 2 | ... | 31 |
| " | 20th ... | ... | 14 | 9 | 1 | ... | ... | 2 | ... | 26 |
| " | 27th ... | ... | 15 | 8 | 1 | ... | ... | ... | ... | 24 |
| March | 5th ... | ... | 21 | 12 | 2 | 1 | ... | 4 | 1 | 41 |
| " | 12th ... | ... | 9 | 3 | ... | ... | ... | 2 | ... | 14 |
| " | 19th ... | ... | 20 | 15 | 4 | ... | ... | 3 | 1 | 43 |
| " | 26th ... | ... | 19 | 11 | ... | ... | ... | 4 | 1 | 35 |
| April | 2nd ... | ... | 12 | 9 | ... | ... | ... | ... | ... | 21 |
| " | 9th ... | ... | 13 | 7 | ... | ... | ... | 3 | ... | 23 |
| " | 16th ... | ... | 14 | 6 | 1 | ... | ... | 2 | ... | 23 |
| " | 23rd ... | ... | 11 | 9 | ... | 1 | 1 | ... | ... | 22 |
| " | 30th ... | ... | 23 | 12 | 1 | ... | ... | ... | ... | 36 |
| May | 7th ... | ... | 8 | 10 | ... | ... | ... | 2 | ... | 20 |
| " | 14th ... | ... | 15 | 10 | 3 | ... | ... | 2 | ... | 30 |
| " | 21st ... | ... | 9 | 7 | 6 | ... | ... | ... | ... | 22 |
| " | 28th ... | ... | 8 | 9 | 4 | ... | ... | 1 | ... | 22 |
| June | 4th ... | ... | 6 | 9 | 2 | ... | ... | ... | ... | 17 |
| " | 11th ... | ... | 11 | 7 | 5 | ... | ... | 1 | ... | 24 |
| " | 18th ... | ... | 8 | 10 | 4 | 1 | ... | ... | ... | 23 |
| " | 25th ... | ... | 15 | 10 | 8 | 1 | ... | 2 | ... | 36 |
| July | 2nd ... | ... | 7 | 9 | 5 | ... | ... | ... | ... | 21 |
| " | 9th ... | ... | 12 | 8 | 6 | ... | ... | ... | ... | 26 |
| " | 16th ... | ... | 8 | 6 | 12 | ... | ... | ... | ... | 26 |
| " | 23rd ... | ... | 16 | 12 | 4 | ... | ... | 2 | ... | 34 |
| " | 30th ... | ... | 19 | 13 | 4 | ... | ... | 3 | ... | 39 |
| August | 6th ... | ... | 13 | 14 | 3 | ... | ... | 2 | ... | 32 |
| " | 13th ... | ... | 8 | 8 | 11 | ... | ... | ... | ... | 27 |
| " | 20th ... | ... | 11 | 11 | 4 | 1 | ... | 4 | ... | 31 |
| " | 27th ... | ... | 14 | 10 | 10 | 1 | ... | 2 | ... | 37 |
| September | 3rd ... | ... | 20 | 15 | 14 | ... | ... | ... | ... | 49 |
| " | 10th ... | ... | 30 | 15 | 3 | 1 | ... | ... | ... | 49 |
| " | 17th ... | ... | 12 | 18 | 9 | 1 | ... | ... | ... | 40 |
| " | 24th ... | ... | 15 | 18 | 5 | 1 | ... | 1 | ... | 40 |
| October | 1st ... | ... | 13 | 11 | 6 | ... | ... | ... | ... | 30 |
| " | 8th ... | ... | 25 | 17 | 7 | ... | 1 | 4 | ... | 54 |
| " | 15th ... | ... | 21 | 15 | 5 | ... | ... | 1 | ... | 42 |
| " | 22nd ... | ... | 15 | 29 | 6 | 2 | ... | ... | ... | 52 |
| " | 29th ... | ... | 10 | 9 | 15 | ... | ... | 1 | 1 | 36 |
| November | 5th ... | ... | 14 | 32 | 4 | ... | ... | 1 | ... | 51 |
| " | 12th ... | ... | 21 | 28 | 8 | ... | ... | 1 | ... | 58 |
| " | 19th ... | ... | 18 | 7 | 7 | ... | ... | 2 | ... | 34 |
| " | 26th ... | ... | 5 | 14 | 2 | ... | ... | 3 | ... | 24 |
| December | 3rd ... | ... | 17 | 13 | 10 | ... | ... | 4 | ... | 44 |
| " | 10th ... | ... | 9 | 9 | 1 | 1 | 1 | 5 | 1 | 27 |
| " | 17th ... | ... | 2 | 9 | 2 | 1 | 1 | 3 | ... | 18 |
| " | 24th ... | ... | 6 | 11 | ... | ... | ... | 1 | ... | 18 |
| " | 31st ... | ... | 10 | 14 | 2 | ... | 1 | 3 | ... | 30 |
| Total ... | | ... | 726 | 691 | 223 | 13 | 9 | 84 | 7 | 1663 |

TABLE XVIII.

Shewing the number of INFECTIOUS DISEASES REPORTED to the
Medical Officer of Health under the Infectious Diseases (Notification)
Acts of 1883 and 1889.

| Year | | Small-pox | Scarlet Fever | Diphtheria | Fever | | Puerperal Fever | Erysipelas ^o | Membranous Croup ^o | Totals |
|--------|-----|-----------|---------------|------------|---------|----------------|-----------------|-------------------------|-------------------------------|--------|
| | | | | | Enteric | Con- tinued | | | | |
| 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 |
| 1896 | ... | 6 | 524 | 124 | 235 | 51 | 18 | ... | ... | 958 |
| 1897 | ... | ... | 699 | 148 | 320 | 64 | 19 | ... | ... | 1250 |
| 1898 | ... | ... | 710 | 283 | 305 | 44 | 15 | ... | ... | 1357 |
| 1899 | ... | 1 | 578 | 566 | 631 | 32 | 17 | ... | ... | 1825 |
| 1900 | ... | ... | 348 | 568 | 1083 | 52 | 20 | ... | ... | 2071 |
| 1901 | ... | 1 | 452 | 454 | 325 | 25 | 13 | 36 | 1 | 1307 |
| 1902 | ... | 8 | 603 | 495 | 448 | 32 | 9 | 50 | 5 | 1650 |
| 1903 | ... | 23 | 1167 | 633 | 216 | 13 | 9 | 74 | 1 | 2136 |
| Totals | ... | 114 | 11446 | 5059 | 8635 | 746 | 234 | 160 | 7 | 26401 |
| Means | ... | 6 | 602.11 | 266.2 | 449.1 | 39.3 | 39.3 | 12.3 | 2.3 | 1434 |
| 1904 | ... | ... | 726 | 601 | 223 | 13 | 13 | 84 | 7 | 1663 |

^oNot a notifiable disease in this Borough until the passing of the Infectious Diseases (Notification) Extension Act, 1899.

Bacteriology.—Medical men practising in the Borough have again largely availed themselves of the opportunity of having bacteriological examinations made in cases of suspected infectious disease. I have made altogether 535 investigations, these with the preparation of the various culture media, etc., have occupied a considerable amount of time, but in view of the results I believe the time to have been well spent. In the light of present knowledge no large town can be considered to possess an efficient Health Department unless provision is made for bacteriological research.

The diseases principally investigated have been diphtheria, typhoid or enteric fever, and tuberculosis. Outfits for the collection of material for examination in the above cases are kept at the Town Hall, and can be obtained on application by any medical man. The results of examinations are telephoned with as little delay as possible.

The following table shows the number and results of the examinations.

| Diseases | Result | | Total |
|--------------------------|----------|----------|-------|
| | Positive | Negative | |
| Diphtheria | 192 | 191 | 383 |
| Tuberculosis | 30 | 83 | 113 |
| Typhoid or Enteric Fever | 5 | 12 | 17 |
| Other Examinations ... | ... | ... | 22 |
| Total ... | 227 | 286 | 535 |

Water Supply.—I have really not much to add to what I have already said upon this subject. One point of interest, however, needs recording. As the result of a memorial presented to the Local Government Board by the Portsmouth Water Company, supported by the Portsmouth Corporation, in February, 1898, a public Enquiry was held at Havant in December of the same year. The result of that Enquiry was that the Local Government Board issued an Order on June 3rd, 1899, instructing the Havant Urban and Rural District Councils to provide an efficient system of sewerage for their district within *six months*.

On January 26th, 1905, a little over five and a half years since the date of the Order, the Town Clerk of Portsmouth received a letter from the Local Government Board stating that the Board's sanction for the loan of £18,400 for the sewerage of Havant had just been granted!

Another matter to which I have called attention is the provision, by the Water Company, of proper filter beds, for filtering the water before it is delivered in Portsmouth. The necessity for these is seen in the occasional very cloudy condition of the water in this town. So far, however, nothing has been done in this matter.

Although I am obliged to make recommendations from time to time with reference to the water, it is only right I should say that it is in my opinion an exceptionally good supply, but at the same time, when we are dealing with a water supply on which the health of nearly a quarter of a million people depends, it would not be right to omit any reasonable measures, the carrying out of which will abolish certain risks, remote though the danger from these may at present appear.

I append the results of the chemical analysis of the water made during the year.

The following **Analyses of Water** have been made during the past year. The results are expressed in parts per 100,000.

| Date | Source | Total Solids | Chlorine | Chlorine estimated as common salt | Nitrogen as Nitrates and Nitrites | Free or Saline Ammonia | Albuminoid or Organic Ammonia | Total Hardness | Poisonous Metals | Sulphates and Nitrites | Physical Characters |
|----------|------------------|--------------|----------|-----------------------------------|-----------------------------------|------------------------|-------------------------------|----------------|------------------|------------------------|---|
| 1904 | | | | | | | | | | | |
| Jan. 18 | Town Hall | 33.0 | 1.3 | 2.2 | 0.32 | 0.000 | 0.002 | 23.0 | Nil ... | Nil ... | Clear, colourless, free from suspended matter |
| Feb. 15 | Town Hall | 30.5 | 1.7 | 2.9 | 0.34 | 0.000 | 0.006 | 22.8 | Nil ... | Nil ... | Cloudy, faint darkening on igniting total solids |
| Mar. 15 | Town Hall | 34.0 | 1.6 | 2.6 | 0.32 | 0.000 | 0.003 | 23.0 | Nil ... | Nil ... | Clear, colourless, free from suspended matter |
| April 18 | Town Hall | 32.5 | 1.8 | 3.0 | 0.32 | traces | 0.003 | 22.8 | Nil ... | Nil ... | Clear, colourless, free from suspended matter |
| May 27 | Town Hall | 33.0 | 1.7 | 2.9 | 0.32 | traces | 0.003 | 22.4 | Nil ... | Nil ... | Clear, colourless, free from suspended matter |
| " 31 | Town Hall | 33.0 | 1.8 | 3.0 | 0.30 | traces | 0.004 | 21.6 | Nil ... | Nil ... | Cloudy, considerable suspended matter |
| July 16 | Town Hall | 32.8 | 2.2 | 3.6 | 0.20 | trace | 0.004 | 22.4 | Nil ... | Nil ... | Cloudy, considerable suspended matter |
| Aug. 12 | Town Hall | 32.5 | 1.8 | 3.0 | 0.26 | trace | 0.0046 | 22.8 | Nil ... | Nil ... | Clear, faint bluish tinge, free from suspended matter |
| " 19 | Town Hall | 30.4 | 2.2 | 3.6 | 0.34 | 0.000 | 0.002 | 22.3 | Nil ... | Nil ... | Clear, faint bluish tinge, free from suspended matter |
| Sept. 1 | House, North End | 42.8 | 2.0 | 3.3 | 0.26 | trace | 0.005 | 23.7 | Nil ... | Nil ... | Whitish grey, opaque colour, considerable suspended matter, deposit of fine sand and clay |
| Oct. 7 | Town Hall | 31.1 | 1.8 | 3.0 | 0.33 | 0.000 | 0.006 | 23.7 | Nil ... | Nil ... | Clear, colourless, free from suspended matter |
| Nov. 17 | House, Southsea | 31.0 | 2.0 | 3.2 | 0.24 | trace | 0.004 | 24.0 | Nil ... | Nil ... | Clear, colourless, free from suspended matter |
| Dec. 20 | Town Hall | 31.7 | 2.0 | 3.2 | 0.30 | trace | 0.004 | 24.0 | Nil ... | Nil ... | Clear, colourless, free from suspended matter |

Slaughter-houses.—As will be seen from the Chief Inspector's Report these have been constantly inspected, and a considerable amount of diseased meat has been destroyed as unfit for food. The slaughter-houses in the Borough number 98, of these 93 are permanently licensed or registered, and in the case of 5 only are the licenses granted annual ones.

Periodically representations are made that the private slaughter-houses should be done away with, and a public abattoir erected by the Corporation in their stead, and in the latter part of the year an address was given in the Town Hall by Mr. A. H. Lee, M.P., the member for South Hants, emphasising the value of a public abattoir, more especially from the point of view of prevention of cruelty. I think none, outside those directly interested in the trade, have any doubt on the superiority of an abattoir over private slaughter-houses. It is obvious that when there are nearly 100 slaughter-houses in use at various times, and in various parts of the town, the inspection of meat cannot be so efficiently carried out as if all the slaughtering was done at stated times in one properly supervised abattoir. In spite of this I cannot advise the Corporation at present to waste money in the erection of an abattoir. I use the word "waste" advisedly, for under existing circumstances the building of an abattoir would effect no other end than to give work for a certain number of the unemployed during its construction.

The reasons for this statement are the following. The Corporation have powers under section 169 of the Public Health Act, 1875, to erect a public slaughter-house, to make bye-laws with respect to the management, and charges for the use of such a slaughter-house, and nothing else. There are no powers to enable them to compel butchers to use the abattoir when completed, and no powers to close the private slaughter-houses now in use; out of the 98 slaughter-houses only the five with annual licenses can be closed by the Corporation. Moreover the feeling amongst butchers is so strong, that I fear no contradiction in stating, that not a single butcher in the town will use an abattoir when erected except under com-

pulsion. Before I can advise the Corporation to take in hand the provision of a public slaughter-house, I shall want to see further legislation compelling the closure of all private slaughter-houses, and further than that I shall want to see legislation enacted compelling all meat sold in the town, whether slaughtered in or outside the Borough, to be first passed through the abattoir for inspection, otherwise the only result of closing the private slaughter-houses inside will be the erection of slaughter-houses just outside the Borough. And further it is not only the home-grown meat that needs inspection, foreign meat should be as carefully, if not more thoroughly, examined before being exposed for sale.

At one time this country took the lead amongst all others in sanitary reform, but unfortunately we are now dropping behind in several directions, and in none are we more behind-hand than in the inspection of food. I am of opinion that no meat should be sold for food until it has first been examined by skilled inspectors, and stamped by the Local Authority as fit for human consumption; once the machinery for such inspection is put in order the whole thing presents no difficulty, and indeed I believe this is the universal practice in several European countries. I am informed that Turkey is the only European country besides England that does not insist on the slaughtering of animals for food in public slaughter-houses, and the classification of England and Turkey, bracketed together equal in meat inspection, will not, I think, strike the average Englishman as completely satisfactory.

The inspection of meat throughout the country is haphazard and bad, and will never be efficient until Parliament takes the matter in hand, and grants the necessary powers to local authorities, who are for the most part anxious to alter the existing state of affairs, but find their efforts of no avail, and, until further powers are granted, the Corporation will be ill-advised to saddle themselves with an abattoir. The Corporation may however adopt steps, perhaps in conjunction with other large towns, to draw the attention of Parliament to the pressing need for the reform in the present methods of preparation of meat for food.

Meteorological Observations in Portsmouth in 1904.

Station in Victoria Park ; Situation, Lat. $50^{\circ} 48' 4''$, Long. $1^{\circ} 55''$ N.

The observations have been taken twice a day by Mr. C. W. Hearn, who reports as follows :—

The weather during the year was on the whole a great improvement on that of the previous one.

Barometer.—The atmospheric pressure was more evenly distributed throughout the year. The mean corrected readings of the barometer at 9 a.m. was 30.011. The highest corrected reading was 30.709, on January 22nd, and the lowest, 28.785, on February 9th.

Sunshine.—The total amount of Bright Sunshine recorded was 1,731 hours and 50 minutes. There were 313 days on which bright sunshine occurred, and only 52 sunless days. During the months of April, May, June, July, August and September there were only 7 sunless days, and for 91 days in succession (June 1st to August 30th) the sun shone on each day with a mean daily average of 8 hours.

Temperature.—The mean shade temperature was 51.1.

Maximum.—The mean maximum temperature was 56.8, the highest recorded being 79.8, on July 17th.

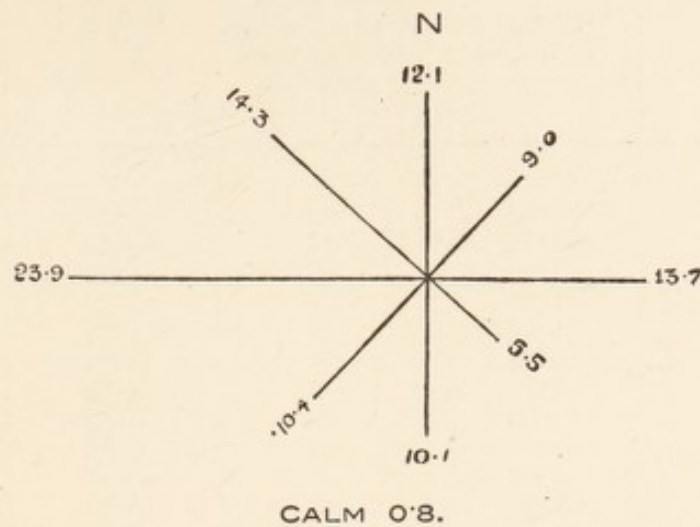
Minimum.—The mean minimum temperature in the shade was 45.5, the lowest being 25.5, on January 1st.

Maximum in Sun.—The highest maximum temperature in the sun was 134, on July 14th.

Minimum on Grass.—The lowest minimum temperature on the grass was 13° , on January 21st.

Winds.—The general direction of the wind was west or north-westerly, but not so much so as in previous years.

The following shows the percentage of winds throughout the year.



Thunder Storms.—Thunder was heard on 7 occasions ; Lightning occurred on 5 ; and hail fell 4 times.

Rainfall.—The total rainfall registered during the year was 26.68 inches, this represents a fall of 13,496,871.5 tons of water, and is less by nearly 4,300,000 tons than that which fell during the previous year.

The following table shows the total rainfall and the number of days on which rain fell during each month, together with the greatest fall in 24 hours.

RAINFALL.

| 1904 | | Total amount in inches | Number of days on which 0.01 or more rain fell | Greatest fall in 24 hours | Date of Greatest Fall |
|-----------|-----|---------------------------|---|---------------------------------|--------------------------|
| January | ... | 3.95 | 25 | 0.77 | 30th |
| February | ... | 3.72 | 24 | 0.53 | 9th |
| March | ... | 1.03 | 15 | 0.20 | 7th |
| April | ... | 1.38 | 14 | 0.26 | 12th & 14th |
| May | ... | 4.02 | 18 | 1.36 | 20th |
| June | ... | 0.87 | 8 | 0.30 | 24th |
| July | ... | 1.26 | 9 | 0.42 | 30th |
| August | ... | 2.39 | 13 | 0.42 | 4th |
| September | ... | 1.76 | 16 | 0.37 | 30th |
| October | ... | 2.06 | 12 | 0.75 | 6th |
| November | ... | 1.30 | 6 | 0.62 | 9th |
| December | ... | 2.94 | 17 | 0.65 | 6th |
| Total | ... | 26.68 | 177 | 1.36 | May 20th |

Snow fell slightly on February 17th and 19th, and on March 1st, 2nd and 30th.

The following table shows the total rainfall for the past 15 years :

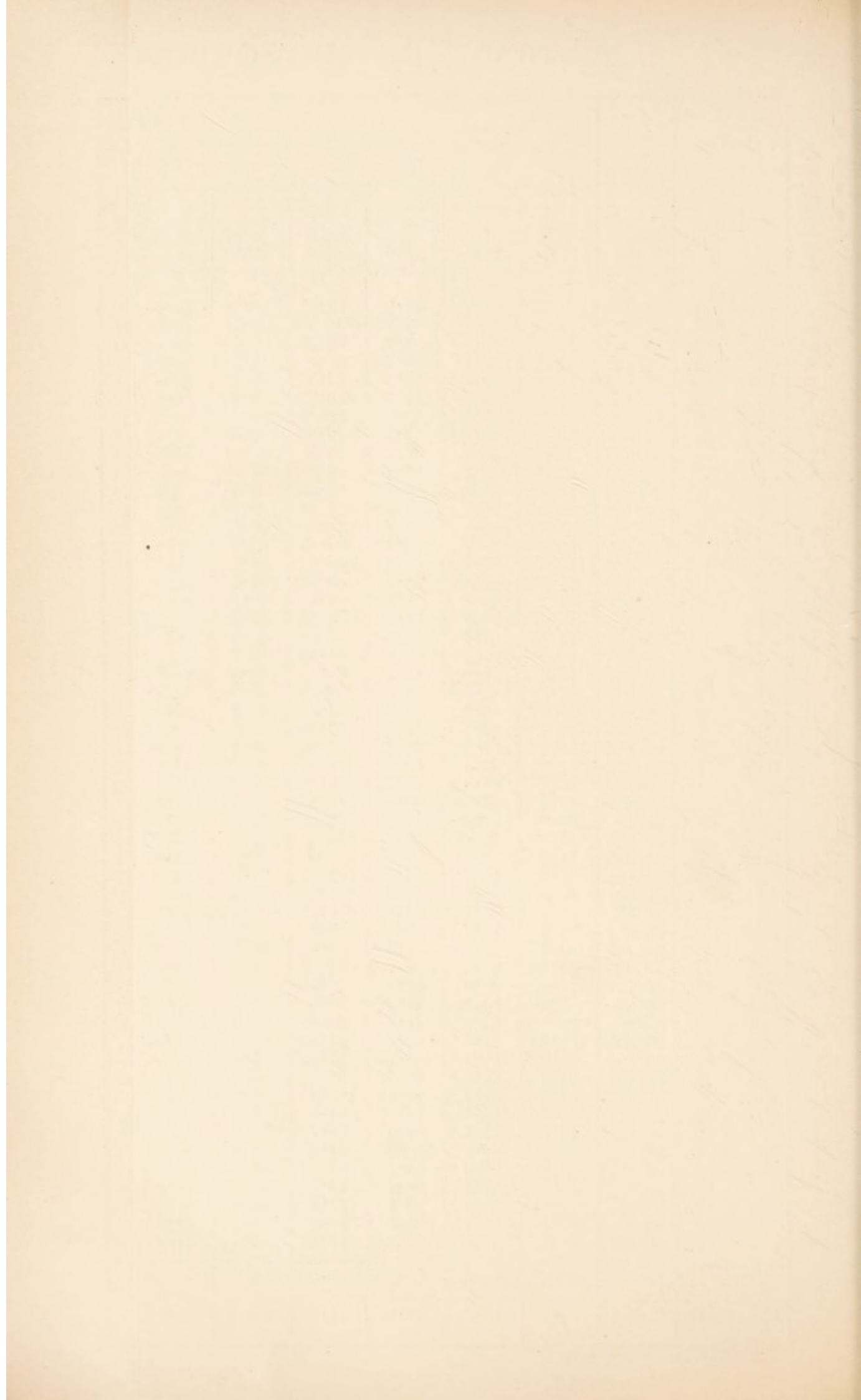
| Year | | Total Rainfall in inches | Number of Rainy Days | Greatest Fall in 24 hours | Date of Greatest Fall |
|-------|-----|-----------------------------|-------------------------|---------------------------------------|--------------------------|
| 1890 | ... | 21.65 | 171 | 1.11 | July 17th |
| 1891 | ... | 31.24 | 182 | 1.52 | Aug. 20th |
| 1892 | ... | 22.27 | 146 | 1.11 | Aug. 18th |
| 1893 | ... | 23.15 | 157 | 0.88 | July 4th |
| 1894 | ... | 35.89 | 187 | 1.78 | Nov. 11th |
| 1895 | ... | 27.59 | 147 | 1.17 | Oct. 30th |
| 1896 | ... | 25.66 | 156 | 1.31 | Sept. 2nd |
| 1897 | ... | 28.38 | 163 | 1.13 | Aug. 26th |
| 1898 | ... | 22.65 | 142 | 1.45 | Nov. 23rd |
| 1899 | ... | 25.26 | 118 | 3.25 ^c | July 23rd |
| 1900 | ... | 28.50 | 171 | 0.98 | Jan. 6th |
| 1901 | ... | 24.11 | 131 | 1.30 | June 30th |
| 1902 | ... | 24.16 | 148 | 1.14 | Aug. 18th |
| 1903 | ... | 35.18 | 181 | 1.80 | Sept. 4th |
| Means | ... | 26.81 | 157 | Greatest Fall in 24 hours, 3.25 | July 23rd |
| 1904 | ... | 26.68 | 177 | 1.36 | May 20th |

^cFell between 1.30 and 3 o'clock p.m. Sunday, July 23rd

ABSTRACT OF METEOROLOGICAL OBSERVATIONS made at PORTSMOUTH during the YEAR 1904.

[illegible]

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Climatic Conditions of Southsea during the Winter Months, as compared with three other South Coast Health Resorts.

| Meteorological Station. | January | | | February | | | March | | |
|-------------------------|------------------|--------------------------|----------|------------------|--------------------------|----------|------------------|--------------------------|----------|
| | Mean Shade Temp. | Hours of Bright Sunshine | Rainfall | Mean Shade Temp. | Hours of Bright Sunshine | Rainfall | Mean Shade Temp. | Hours of Bright Sunshine | Rainfall |
| Southsea | 40.8 | 51.6 | 3.96 | 41.2 | 94.3 | 3.72 | 41.8 | 117.3 | 1.03 |
| Brighton | 40.7 | 42.8 | 3.91 | 40.9 | 68.7 | 3.28 | 41.6 | 91.8 | 0.98 |
| Eastbourne | 40.8 | 41.7 | 4.63 | 41.2 | 59.2 | 4.02 | 41.1 | 99.7 | 1.30 |
| Ventnor | 41.9 | 40.7 | 3.75 | 41.6 | 75.6 | 3.88 | 42.2 | 115.6 | 1.71 |
| Meteorological Station. | October | | | November | | | December | | |
| | Mean Shade Temp. | Hours of Bright Sunshine | Rainfall | Mean Shade Temp. | Hours of Bright Sunshine | Rainfall | Mean Shade Temp. | Hours of Bright Sunshine | Rainfall |
| Southsea | 53.0 | 104.4 | 2.06 | 44.7 | 78.0 | 1.32 | 44.0 | 45.6 | 2.94 |
| Brighton | 54.9 | 101.8 | 2.47 | 44.6 | 82.2 | 1.40 | 43.7 | 40.4 | 2.47 |
| Eastbourne | 53.3 | 103.8 | 2.93 | 46.3 | 95.1 | 1.82 | 45.2 | 47.1 | 3.26 |
| Ventnor | 53.8 | 96.6 | 2.52 | 46.2 | 89.8 | 1.72 | 45.8 | 46.7 | 3.61 |

Appended is the Abstract of the Meteorological Observations during the year.

Milton Hospital.

To the Chairman and Members of the Health Committee.

GENTLEMEN,

The total number of patients admitted during the year was 636. The combined mortality in all cases was 6·5. This high death-rate was due to causes to which I have referred under the different diseases.

Scarlet Fever. The number of scarlet fever cases admitted was 340. Of these eight died, the mortality being 235. One patient died on admission, two within 24 hours, one of these having severe burns, one within 48 hours, and one within four days.

Diphtheria. The number of cases of diphtheria admitted was 220. Of these 23 died, the mortality being 10·45 per cent. This high mortality is unfortunately due to the delay in sending patients to the Hospital; they are frequently received with the disease in so advanced a stage that any attempt at healment is quite hopeless. I can only repeat what I said in a previous report, that if cases were admitted in the first twenty-four hours of the disease, the mortality would be very much lower.

Enteric Fever. The number of enteric fever patients admitted was 73. Deaths nine, the mortality being 12·3 per cent. Three of these were found to be suffering from a disease other than that for which they were admitted. One of these died from pulmonary tuberculosis, one acute pneumonia, and one septicaemia.

Post-Scarlatinal Diphtheria. There were two cases of post-scarlatinal diphtheria. Both recovered.

Varicella. One patient suffering from diphtheria developed chicken-pox, with the result that seven others contracted the disease. There were no deaths.

Illness of Staff. Two nurses contracted scarlet fever, one diphtheria, and one enteric. Two ward maids contracted scarlet fever and one diphtheria. All recovered.

During the year the additions to the administrative block have been completed, the comfort of the nursing staff has thereby been much enhanced. The ambulance is now kept at the Hospital. The change has proved most satisfactory, facilitating the early removal of patients, and permitting a nurse to undertake the duty of removal. The decision of your Committee to provide a more modern ambulance will be much appreciated by those who unfortunately have to use it. The usual classes for instruction of nurses have been continued during the year.

I have to thank the Matron and nursing staff for their valuable assistance and co-operation.

I have the honour to remain,

Your obedient servant,

JAMES MCGREGOR,

Medical Superintendent.

TABLE XIX.

MILTON HOSPITAL.

NUMBER OF PATIENTS ADMITTED
during the Year 1904.

| DISEASES | AGES | | | | | | | | TOTAL |
|----------------------------------|--------------|--------------|---------------|----------------|----------------|----------------|----------------|-------------------|-------|
| | 0 to 1 | 1 to 5 | 5 to 15 | 15 to 25 | 25 to 35 | 35 to 45 | 45 to 55 | 55 and over | |
| Small-pox ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Scarlet Fever... | 1 | 95 | 213 | 21 | 9 | 1 | ... | ... | 340 |
| Typhoid Fever ... | ... | 8 | 28 | 20 | 8 | 7 | 2 | ... | 73 |
| Diphtheria ... | ... | 53 | 138 | 23 | 5 | 1 | ... | ... | 220 |
| Scarlet Fever- Diphtheria ... | ... | ... | 2 | ... | ... | ... | ... | ... | 2 |
| Other Diseases ... | ... | ... | 1 | ... | ... | ... | ... | ... | 1 |
| Totals ... | 1 | 156 | 382 | 64 | 22 | 9 | 2 | ... | 636 |

TABLE XX.

Number of Patients Admitted to the Milton Hospital for the Years 1883 to 1904.

| DISEASES. | 1883 | 1884 | 1885 | 1886 | 1887 | 1888 | 1889 | 1890 | 1891 | 1892 | 1893 | 1894 | 1895 | 1896 | 1897 | 1898 | 1899 | 1900 | 1901 | 1902 | 1903 | 1904 |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Small-pox | ... | 5 | 1 | 8 | 7 | 20 | 4 | 6 | 1 | ... | ... | 22 | ... | 6 | 6 | ... | 1 | ... | 1 | 8 | 3 | ... |
| Scarlet Fever | ... | 1 | 13 | 16 | 29 | 56 | 120 | 278 | 384 | 180 | 503 | 238 | 177 | 352 | 413 | 436 | 333 | 198 | 270 | 339 | 572 | 340 |
| Enteric or Typhoid | ... | ... | 2 | 6 | 66 | 37 | 35 | 48 | 114 | 51 | 94 | 53 | 83 | 76 | 102 | 92 | 96 | 157 | 101 | 105 | 70 | 73 |
| Diphtheria | ... | ... | 4 | 6 | 11 | 27 | 23 | 18 | 69 | 52 | 12 | 38 | 46 | 38 | 37 | 118 | 225 | 211 | 170 | 197 | 211 | 220 |
| Measles | ... | 1 | 2 | 1 | 11 | 4 | 8 | 5 | 1 | 22 | 6 | 22 | 15 | 10 | 6 | 6 | ... | 1 | ... | ... | ... | ... |
| Other Diseases | ... | ... | ... | ... | 1 | 3 | 8 | 8 | 7 | 18 | 5 | 9 | 25 | 17 | 11 | 10 | 2 | ... | ... | ... | 2 | 3 |
| Totals | ... | 7 | 22 | 37 | 125 | 147 | 198 | 363 | 576 | 323 | 626 | 382 | 346 | 499 | 569 | 662 | 657 | 567 | 542 | 649 | 858 | 636 |

Factory and Workshop Act, 1901.—Under Section 132 of this Act, the Medical Officer of Health is required to report specifically on the administration of this Act in workshops and workplaces. I therefore append special tables showing the number of workshops in the Borough, the number of persons employed therein, and the various sanitary measures taken during the year.

General sanitary supervision has been exercised over 1604 workshops and workplaces. Mr. Gray, the Factory and Workshop Inspector has paid 3991 visits under this and the Shop Hours' Act, 455 nuisances have been abated, a list of which follows. In a number of these cases visits were also paid by me.

A considerable amount of work is entailed in obtaining lists of outworkers from firms who give out homework, and up to the present the benefits from this enactment seem hardly commensurate with the trouble involved.

As regards underground bakehouses, certificates have been granted to the following only :

34, King's Road, Southsea.
172, Commercial Road, Landport.
15, Hanover Street, Portsea.

During the summer months, a constant supervision was again exercised over the houses in which makers of ice-cream lived, and the stalls in the streets and along the seashore were frequently inspected to ascertain that the cloths and water used for washing the glass were kept clean.

Nuisances in respect to workshops and workplaces :

| | | | | |
|--|-----|-----|-----|----|
| Drains repaired | ... | ... | ... | 68 |
| „ cleansed | ... | ... | ... | 17 |
| W.C. fittings repaired | ... | ... | ... | 24 |
| Ventilating shafts raised or repaired | ... | ... | ... | 4 |
| Paving repaired | ... | ... | ... | 40 |
| Soil pipes ventilated | ... | ... | ... | 9 |
| Waste pipes repaired or disconnected from drains | ... | ... | ... | 8 |
| Yard traps removed from bakehouses | ... | ... | ... | 9 |
| Yards drained | ... | ... | ... | 5 |

| | | | |
|--|-----|-----|-----|
| Water closets ventilated | ... | ... | 3 |
| Water closets repaired | ... | ... | 4 |
| Floors drained | ... | ... | 7 |
| " Bell " trap removed | ... | ... | 1 |
| Water laid on to W.C.'s | ... | ... | 5 |
| Workshops cleansed | ... | ... | 40 |
| Bakehouses | ... | ... | 19 |
| Workshops ventilated | ... | ... | 2 |
| Flooring repaired | ... | ... | 14 |
| Spouting | ... | ... | 39 |
| Roofs | ... | ... | 24 |
| Walls | ... | ... | 3 |
| Animals removed | ... | ... | 2 |
| Refuse | ... | ... | 6 |
| Manure | ... | ... | 10 |
| Sanitary accommodation provided | ... | ... | 7 |
| New W.C. pans | ... | ... | 6 |
| Water closets cleansed | ... | ... | 4 |
| Ice cream stores | ... | ... | 5 |
| Smoke nuisances abated | ... | ... | 3 |
| Overcrowding in workshops discontinued | ... | ... | 3 |
| Other nuisances | ... | ... | 64 |
| Total | | | 455 |

Registered workshops—

| Trade. | No. of Workshops. | Persons employed— | | Totals. |
|------------------|-------------------|-------------------|---------|---------|
| | | Male. | Female. | |
| Bakers | 180 | 730 | ... | 730 |
| Blindmakers | 2 | 8 | ... | 8 |
| Bootmakers | 77 | 212 | ... | 212 |
| Bookbinders | 8 | 32 | 24 | 56 |
| Boatbuilder | 1 | 3 | ... | 3 |
| Brassworkers | 3 | 18 | ... | 18 |
| Brushmakers | 2 | 30 | 14 | 44 |
| Carpenters | 50 | 270 | ... | 270 |
| Cabinet makers | 14 | 70 | ... | 70 |
| Capmakers | 5 | 6 | 27 | 33 |
| Cigarette makers | 2 | 3 | 6 | 9 |
| Coppersmith | 1 | 3 | ... | 3 |
| Cutler | 1 | 2 | ... | 2 |
| Coachbuilders | 14 | 133 | ... | 133 |
| Corset makers | 9 | 2 | 38 | 40 |
| Cork cutters | 3 | 3 | ... | 9 |
| Cooper | 1 | 3 | ... | 3 |
| Cycle makers | 39 | 141 | ... | 141 |

| Trade. | No. of Workshops. | Persons employed— | | Totals. |
|---------------------------|-------------------|-------------------|---------|---------|
| | | Male. | Female. | |
| Dress and mantle makers | 419 | ... | 1800 | 1800 |
| Drug packers ... | 2 | 2 | 14 | 16 |
| Firewood cutters | 35 | 102 | ... | 102 |
| Fitters ... | 9 | 48 | ... | 48 |
| French polishers ... | 7 | 30 | ... | 30 |
| Furriers ... | 3 | ... | 7 | 7 |
| Gluemaker ... | 1 | 4 | ... | 4 |
| Gutscraper ... | 1 | 6 | ... | 6 |
| Jewellers ... | 21 | 63 | ... | 63 |
| Laundries ... | 79 | ... | 524 | 524 |
| Lathrenders ... | 3 | 12 | ... | 12 |
| Lampmaker ... | 1 | ... | 4 | 4 |
| Milliners ... | 94 | ... | 439 | 439 |
| Optician ... | 1 | 4 | ... | 4 |
| Plaster modellers... | 2 | 10 | ... | 10 |
| Pea packer ... | 1 | ... | 24 | 24 |
| Plumbers ... | 12 | 55 | ... | 55 |
| Picture-frame makers, etc | 20 | 90 | ... | 90 |
| Photographers ... | 23 | 44 | 23 | 67 |
| Piano makers ... | 2 | 20 | ... | 20 |
| Pincushion makers | 3 | 4 | 13 | 17 |
| Rag sorters ... | 4 | 28 | ... | 28 |
| Smiths ... | 27 | 107 | ... | 107 |
| Sugar boilers ... | 6 | 24 | ... | 24 |
| Sewing machine makers | 1 | 6 | ... | 6 |
| Stonemasons ... | 6 | 70 | ... | 70 |
| Saddlers ... | 10 | 32 | ... | 32 |
| Shirtmakers, etc. ... | 7 | ... | 25 | 25 |
| Scalemaker ... | 1 | 6 | ... | 6 |
| Sailmaker ... | 1 | 3 | ... | 3 |
| Tailors ... | 392 | 960 | 1696 | 2656 |
| Tinsmiths ... | 8 | 32 | ... | 32 |
| Ticket writers ... | 12 | 37 | ... | 37 |
| Tea packer ... | 1 | 1 | 4 | 5 |
| Trunk makers ... | 3 | 21 | ... | 21 |
| Toy makers ... | 2 | 3 | 2 | 5 |
| Upholsterers ... | 24 | 78 | 2 | 80 |
| Umbrella makers... | 3 | 9 | ... | 9 |
| Wheelwrights ... | 15 | 60 | ... | 60 |
| Whitesmith ... | 1 | 2 | ... | 2 |
| Wire mattress maker | 1 | 4 | 2 | 6 |
| Zinc worker ... | 1 | 2 | ... | 2 |
| Miscellaneous trades | 9 | 41 | 7 | 48 |
| Totals | 1686 | 3695 | 4695 | 8390 |

Factories, Workshops, Laundries, Workplaces and Homework.

1.—INSPECTION.

Including Inspection made by Sanitary Inspectors or Inspectors of Nuisances.

| Premises. | Number of | | |
|--|-------------|------------------|---------------|
| | Inspection. | Written Notices. | Prosecutions. |
| Factories (Including Factory Laundries) | 78 | 12 | ... |
| Workshops (Including Workshop Laundries) | 2890 | 191 | ... |
| Workplaces | 350 | 27 | ... |
| Homeworkers' Premises | 423 | 41 | ... |
| Total | 3741 | 271 | ... |

2.—DEFECTS FOUND.

| Particulars. | Number of Defects. | | | Number of Prosecutions. |
|--|--------------------|-----------|-----------------------------|-------------------------|
| | Found. | Remedied. | Referred to H.M. Inspector. | |
| <i>Nuisances under the Public Health Acts :—</i> | | | | |
| Want of Cleanliness | 40 | 40 | ... | ... |
| Want of Ventilation | 2 | 2 | ... | ... |
| Overcrowding | 3 | 3 | ... | ... |
| Want of drainage of floors | 7 | 7 | ... | ... |
| Other nuisances | 368 | 343 | ... | ... |
| Sanitary accommodations { insufficient | 2 | 1 | ... | ... |
| { unsuitable or defective | 5 | 5 | ... | ... |
| { not separate for sexes | ... | ... | ... | ... |
| <i>Offences under the Factory and Workshop Act :—</i> | | | | |
| Illegal occupation of underground bakehouses (S. 101) | ... | ... | ... | ... |
| Breach of special sanitary requirements for bakehouses (SS. 97 to 100) | 28 | 27 | ... | ... |
| Failure as regard list of outworkers | 24 | 24 | ... | ... |
| Giving out work to be done { unwholesome (S. 101) | ... | ... | ... | ... |
| { infected (S. 110) | ... | ... | ... | ... |
| Allowing wearing apparel to be made in premises infected by scarlet fever or small-pox (S. 109) | ... | ... | ... | ... |
| Other offences | ... | ... | ... | ... |
| Total | 479 | 452 | ... | ... |

3.—OTHER MATTERS.

| Class. | | | | | | Number. | |
|---|--|--|--|--|--|-----------------|-------------|
| Matters notified to H.M. Inspectors of Factories :— | | | | | | | |
| Failure to affix Abstract of the Factory and Workshop Act (S. 133) | | | | | | 124 | |
| Action taken in matters referred by H.M. Inspectors as remediable under the Public Health Act, but not under the Factory Act (S. 5) { | | | | | | 12 | |
| Notified to H.M. Inspectors | | | | | | | |
| Reports (of action taken) sent to H.M. Inspectors | | | | | | 12 | |
| Other | | | | | | ... | |
| Underground Bakehouses (S. 101) :— | | | | | | | |
| In use during 1903 | | | | | | 8 | |
| Certificates granted } in 1903 | | | | | | 3 | |
| in 1904 | | | | | | ... | |
| In use at the end of 1904 | | | | | | 4 | |
| | | | | | | Number of | |
| | | | | | | Lists | Out-workers |
| Homework :— | | | | | | | |
| Lists received | | | | | | 108 | 1752 |
| Addresses of Outworkers { forwarded to other Authorities ... | | | | | | 66 | |
| received from other Authorities ... | | | | | | 42 | |
| <i>Homework in unwholesome or infected premises :—</i> | | | | | | Wearing Apparel | Other Work |
| Notices prohibiting homework in unwholesome premises (S. 108) | | | | | | ... | ... |
| Cases of infectious disease notified in homeworkers' premises ... | | | | | | 48 | 3 |
| Orders prohibiting homework in infected premises (S. 110) ... | | | | | | ... | ... |
| Workshops on the Register (S. 131) at the end of 1904— | | | | | | | |
| Important classes of workshops, { Bakehouses ... | | | | | | 180 | |
| such as workshop bakehouses, { Tailors ... | | | | | | 392 | |
| may be enumerated here. { Dress and Mantle Makers ... | | | | | | 419 | |
| { Milliners ... | | | | | | 94 | |
| Total number of workshops on Register ... | | | | | | 1686 | |

APPENDIX.

TABLE I.—For Whole District.

| Year | | †Population estimated to middle of each year | Births | | Deaths under one year of age. | | Deaths at all ages—Total | | Total Deaths in Public Institu- tions |
|----------------------------------|-----|---|--------|-------------------|-------------------------------------|---|-----------------------------|-------------------|--|
| | | | No. | Rate ^o | No. | Rate per 1000 Births regtd. | No. | Rate ^o | |
| 1894 | ... | 197,878 | 4,709 | 28.05 | 611 | 129 | 2,593 | 15.44 | 429 |
| 1895 | ... | 170,672 | 4,868 | 28.52 | 856 | 175 | 3,129 | 18.33 | 477 |
| 1896 | ... | 173,565 | 5,006 | 28.84 | 785 | 156 | 3,030 | 17.46 | 518 |
| 1897 | ... | 176,497 | 4,879 | 27.74 | 819 | 167 | 2,974 | 16.85 | 520 |
| 1898 | ... | 179,500 | 4,971 | 26.58 | 681 | 137 | 3,048 | 16.98 | 502 |
| 1899 | ... | 182,576 | 5,000 | 27.33 | 986 | 197 | 3,738 | 20.47 | 560 |
| 1900 | ... | 185,725 | 4,994 | 26.89 | 771 | 154 | 3,359 | 18.09 | 687 |
| 1901 | ... | 188,885 | 5,267 | 27.88 | 858 | 162 | 3,367 | 17.82 | 644 |
| 1902 | ... | 191,909 | 5,284 | 27.53 | 800 | 151 | 3,269 | 17.03 | 571 |
| 1903 | ... | 194,960 | 5,431 | 27.95 | 620 | 114 | 2,867 | 14.75 | 517 |
| Averages for years, 1892-1903 | | 181,226 | 5,041 | 27.73 | 778 | 154 | 3,137 | 17.32 | 542 |
| 1904 | ... | 198,038 | 5,579 | 28.27 | 791 | 141 | 3,333 | 16.88 | 625 |

^oRates calculated per 1,000 of estimated population.

†Revised according to census returns of 1901.

APPENDIX.—TABLE II.

| Localities | Names of | Whole Borough | | | | Portsmouth | | | | Portsea | | | | Kingston | | | | Landport | | | | Southsea | | | |
|-----------------------|----------|---|-------------------|--------------------|-----------------------|---|-------------------|--------------------|-----------------------|---|-------------------|--------------------|-----------------------|---|-------------------|--------------------|-----------------------|---|-------------------|--------------------|-----------------------|---|-------------------|--------------------|-----------------------|
| | | Population estimated to middle of each year | Births registered | Deaths at all ages | Deaths under one year | Population estimated to middle of each year | Births registered | Deaths at all ages | Deaths under one year | Population estimated to middle of each year | Births registered | Deaths at all ages | Deaths under one year | Population estimated to middle of each year | Births registered | Deaths at all ages | Deaths under one year | Population estimated to middle of each year | Births registered | Deaths at all ages | Deaths under one year | Population estimated to middle of each year | Births registered | Deaths at all ages | Deaths under one year |
| 1894 | 167,878 | 4,709 | 2,593 | 611 | 14 | 6,900 | 123 | 72 | 14 | 15,200 | 323 | 139 | 35 | 62,915 | 2,087 | 873 | 274 | 68,990 | 1,965 | 935 | 244 | 13,823 | 211 | 145 | 13 |
| 1895 | 170,672 | 4,868 | 3,129 | 856 | 23 | 6,845 | 129 | 71 | 23 | 15,170 | 336 | 180 | 63 | 64,500 | 2,146 | 1,049 | 358 | 70,084 | 2,035 | 1,146 | 356 | 14,073 | 222 | 206 | 32 |
| 1896 | 173,565 | 5,006 | 3,030 | 785 | 18 | 6,834 | 157 | 83 | 18 | 15,000 | 458 | 200 | 57 | 66,000 | 2,243 | 936 | 308 | 71,408 | 2,078 | 1,090 | 333 | 14,323 | 170 | 203 | 20 |
| 1897 | 176,497 | 4,897 | 2,974 | 819 | 13 | 6,809 | 108 | 70 | 13 | 14,750 | 318 | 161 | 32 | 67,750 | 2,250 | 985 | 360 | 72,611 | 2,048 | 1,052 | 360 | 14,577 | 173 | 186 | 11 |
| 1898 | 179,500 | 4,971 | 3,048 | 681 | 24 | 6,800 | 170 | 84 | 24 | 14,500 | 333 | 204 | 53 | 69,250 | 2,219 | 1,531 | 303 | 73,877 | 2,063 | 1,075 | 282 | 15,073 | 186 | 154 | 19 |
| 1899 | 182,576 | 5,000 | 3,737 | 986 | 31 | 6,500 | ... | 95 | 31 | 14,200 | ... | 218 | 62 | 72,050 | ... | 1,349 | 462 | 74,033 | ... | 1,326 | 380 | 15,823 | 173 | 186 | 11 |
| 1900 | 185,725 | 4,995 | 3,359 | 771 | 28 | 6,200 | ... | 79 | 28 | 14,000 | ... | 248 | 70 | 73,072 | ... | 1,607 | 328 | 75,603 | ... | 1,224 | 317 | 16,850 | ... | 201 | 28 |
| 1901 | 188,885 | 5,267 | 3,367 | 858 | 30 | 6,500 | ... | 90 | 30 | 14,200 | ... | 234 | 66 | 73,670 | ... | 1,621 | 438 | 76,803 | ... | 1,230 | 293 | 17,812 | ... | 192 | 31 |
| 1902 | 191,909 | 5,284 | 3,269 | 800 | 18 | 6,500 | ... | 74 | 18 | 14,500 | ... | 195 | 46 | 75,694 | ... | 1,620 | 405 | 77,103 | ... | 1,197 | 317 | 17,812 | ... | 183 | 14 |
| 1903 | 194,960 | 5,431 | 2,867 | 620 | 13 | 6,671 | ... | 70 | 13 | 13,533 | ... | 211 | 38 | 77,468 | ... | 1,436 | 326 | 78,476 | ... | 983 | 233 | 18,612 | ... | 167 | 10 |
| Avg. of 10 yrs. 94-03 | 181,217 | 5,043 | 3,137 | 787 | 21 | 6,656 | 137 | 78 | 21 | 14,505 | 353 | 200 | 52 | 6,937 | 2,189 | 1,301 | 356 | 73,898 | 2,038 | 1,126 | 311 | 15,877 | 189 | 182 | 19 |
| 1904 | 198,038 | 5,579 | 3,333 | 791 | 17 | 6,671 | ... | 68 | 17 | 15,433 | ... | 186 | 49 | 77,768 | ... | 1,750 | 410 | 79,276 | ... | 1,113 | 281 | 18,890 | ... | 216 | 34 |

APPENDIX.

TABLE III.—Cases of Infectious Diseases notified during the Year 1904.

| Notifiable Disease | Cases Notifiable in Whole District | | | | | | | Total Cases notified in each Locality | | | | | No. of Cases removed to Hospital from each Locality | | | | | |
|--------------------|------------------------------------|---------|--------|---------|----------|----------|--------------|---------------------------------------|---------|----------|-----------|-----------|---|---------|----------|-----------|-----------|-------|
| | At all ages | Under 1 | 1 to 5 | 5 to 15 | 15 to 25 | 25 to 65 | 65 and upwds | Ports mouth | Portsea | Kingst'n | Land-port | South-sea | Ports-mouth | Portsea | Kingst'n | Land-port | South-sea | Total |
| Small-pox ... | ... | ... | ... | ... | ... | 1 | ... | ... | ... | 1 | ... | ... | ... | ... | 1 | ... | ... | 1 |
| Cholera ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Diphtheria... | 601 | 2 | 176 | 342 | 50 | 30 | 1 | 11 | 19 | 307 | 206 | 58 | 1 | 7 | 111 | 76 | 25 | 220 |
| Membranous Croup | 10 | ... | 8 | 2 | ... | ... | ... | ... | 1 | 7 | 2 | ... | ... | ... | 1 | ... | ... | 1 |
| Erysipelas ... | 88 | 1 | ... | 11 | 31 | 38 | 7 | 1 | 9 | 50 | 25 | 3 | ... | ... | ... | ... | ... | ... |
| Scarlet Fever | 726 | 5 | 222 | 434 | 35 | 30 | ... | 19 | 19 | 396 | 280 | 12 | 7 | 8 | 188 | 134 | 3 | 340 |
| Typhus Fever | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Enteric Fever | 223 | 2 | 21 | 90 | 53 | 52 | 5 | 4 | 16 | 129 | 68 | 6 | 3 | 3 | 39 | 28 | ... | 73 |
| Relapsing Fever | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Continued Fever | 12 | ... | 2 | 9 | ... | 1 | ... | ... | 1 | 10 | 1 | ... | ... | ... | ... | ... | ... | ... |
| Puerperal Fever | 11 | ... | ... | ... | 3 | 8 | ... | ... | ... | 5 | 6 | ... | ... | ... | ... | ... | ... | ... |
| Plague ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Totals | 1671 | 10 | 429 | 888 | 172 | 160 | 13 | 35 | 65 | 905 | 588 | 79 | 11 | 18 | 340 | 238 | 28 | 635 |

Port Sanitary Authority.

To the Chairman and Members of the Port Sanitary Authority.

GENTLEMEN,

I have again to report that no case of infectious disease occurred in any of the ships visiting the Port during the past year.

All ships on entering the Port are visited by the Port Sanitary Inspector, Mr. Meades, and, if occasion required, by myself.

The following is a list of the vessels which arrived at the Port :—

| | | | |
|--------------------------------------|-----|-----|------|
| From foreign ports | ... | ... | 474 |
| From coasting places | ... | ... | 1406 |
| From places within the radius of the | | | |
| Solent, steamers, &c. | ... | ... | 7709 |
| | | | — |
| Total | ... | ... | 9589 |

The following are the nationalities of the foreign vessels :

| | | | | | |
|-----------|----|---------|----|-----------|---|
| French | 56 | Swedish | 16 | Dutch | 7 |
| Norwegian | 31 | Russian | 11 | Spanish | 6 |
| German | 24 | Danish | 7 | Argentine | 1 |

I have the honour to be,

Gentlemen,

Your obedient servant,

A. MEARNS FRASER, M.D.,

Medical Officer to the Port of Portsmouth.

Report of

The Chief Inspector of Nuisances,

FOR THE YEAR 1904.

To the Chairman and Members of the Health Committee.

GENTLEMEN,

I have the honour to submit my Nineteenth Annual Report on the work performed by your Sanitary Inspectors during the past year.

During the period under review 3,522 Notices were served for the abatement of nuisances, against 3,758 for the previous year. This decrease is accounted for partly by the fact that since June last Inspector Hobbs has been carrying out the Food and Drugs Act, consequently there have only been five District Inspectors instead of six or seven in previous years. Inspector Gray also, in consequence of illness amongst the clerical staff, spent considerable time in office work.

The following works have been carried out under the direction of your Officers, viz. :—

DRAINAGE DEFECTS.

| | | | |
|--|-----|-----|------|
| Drains cleared | ... | ... | 341 |
| „ repaired or relaid with water-tight cement joints | ... | ... | 1683 |
| „ ventilated, ventilating shafts repaired or raised | ... | ... | 111 |
| Sink waste pipes disconnected from drains | ... | ... | 24 |
| Rain water pipes | „ | „ | 24 |
| Soil pipes repaired | ... | ... | 36 |
| Soil pipes removed outside houses | ... | ... | 8 |
| “ Pan ” closets removed and replaced by “ washdown ” | ... | ... | |
| pedestal closets | ... | ... | 10 |
| New water closet pans provided | ... | ... | 813 |

| | |
|---|-----|
| Water closet fittings repaired ... | 334 |
| Water closets repaired ... | 56 |
| „ ventilated ... | 3 |
| „ cleansed ... | 80 |
| Water flushing apparatus provided to W.Cs. . | 95 |
| „ laid on for domestic purposes ... | 8 |
| Extra water closet accommodation provided ... | 21 |
| Waste pipes provided, repaired or trapped ... | 248 |
| Glazed earthenware sinks provided ... | 134 |
| Yard gullies removed from bakehouses ... | 9 |
| Laundry floors drained ... | 7 |

DEFECTS IN CONNECTION WITH DWELLING HOUSES.

| | |
|--|------|
| Roofs repaired .. | 484 |
| Outside walls repaired or protected ... | 171 |
| Sashes, frames or lines provided or repaired ... | 646 |
| Stairs, flooring or doors repaired ... | 521 |
| Space under flooring ventilated ... | 28 |
| Damp proof courses provided ... | 4 |
| Houses or portions of houses cleansed or distempered | 664 |
| Walls and ceilings repaired ... | 301 |
| Bedding cleansed or destroyed ... | 16 |
| Rain water spouts provided or repaired ... | 811 |
| Dust bins provided ... | 13 |
| Yards repaved or paving repaired ... | 1187 |
| Yards drained ... | 11 |
| Courts cleansed and whitewashed ... | 11 |
| Cellars „ „ „ ... | 11 |
| Urinals repaired or provided ... | 5 |
| „ cleansed ... | 4 |
| Overcrowding in dwelling houses abated ... | 68 |
| „ workshops ... | 3 |
| Workshops cleansed ... | 40 |
| Ice cream stores cleansed ... | 5 |
| Smoke nuisances abated ... | 3 |

OFFENSIVE MATTER, &c.

| | |
|-----------------------------|----|
| Manure removed ... | 78 |
| Refuse „ ... | 68 |
| Human excrement removed ... | 4 |
| Stagnant water removed ... | 8 |
| Cesspits cleansed ... | 22 |
| Animals removed ... | 30 |

| | | | |
|------------------------------------|-----|-----|----|
| Slaughterhouses cleansed | ... | ... | 11 |
| " repaved | ... | ... | 3 |
| " numbered and words " Licensed | | | |
| Slaughterhouse " affixed | ... | ... | 28 |
| Cowsheds cleansed | ... | ... | 7 |
| Stables and yards cleansed | ... | ... | 52 |
| " drained | ... | ... | 31 |
| " paved | ... | ... | 32 |
| Sties paved and drained | ... | ... | 24 |
| Manure pits provided | ... | ... | 39 |
| " " repaired | ... | ... | 12 |

BYE-LAWS.

| | |
|--|----|
| Notices under slaughter-house Bye-Laws complied with | 24 |
| " " Nuisance Bye-Laws | 42 |
| " " Common Lodging-house Bye-Laws | 12 |

The following articles of food have been either seized or given up by the owners or consignees for destruction as unfit for the food of man, viz. :—

| | | |
|----------------------------|-----|----------|
| Carcases of Beef (English) | ... | 10 |
| " Mutton | ... | 3 |
| " Pork | ... | 9 |
| " Calves | ... | 2 |
| Quarters of Beef | ... | 9 |
| Loins of Pork (Colonial) | ... | 2 |
| Pieces of Beef | ... | lbs. 558 |
| " Pork | ... | 195 |
| Kidneys, Ox (Colonial) | ... | cases 5½ |
| " " " | ... | 427 |
| " Pigs | ... | cases 2 |
| Sheep's Plucks | ... | 163 |
| " " " | ... | cases 4 |
| Ox tails | ... | 116 |
| " livers | ... | 126 |
| Tripe | ... | kegs 10 |
| Sets of offal | ... | 2 |
| Hams | ... | 3 |
| Pork Chines | ... | lbs. 56 |
| Fowls | ... | 5 |
| Ducks | ... | 4 |
| Rabbits | ... | 40 |

| | | | |
|-------------------|-----|-----|------------|
| Plaice | ... | ... | cwts. 10 |
| " | ... | ... | boxes 2 |
| Whiting | .. | ... | " 2 |
| " dried | ... | ... | " 19 |
| " | ... | ... | barrels 2 |
| Mackerel | ... | ... | boxes 2 |
| Salmon | ... | ... | cwt. 3 |
| Bream | ... | ... | box 1 |
| Cod fish | ... | ... | 91 |
| Cod-ling (smoked) | ... | ... | boxes 53 |
| Mixed fish | ... | ... | cwts. 3 |
| Dabs | ... | ... | barrels 4 |
| Halibut | ... | ... | 1 |
| Hake | ... | ... | stone 18 |
| Smelts | ... | .. | boxes 30 |
| Shrimps | .. | .. | " 9 |
| " | ... | ... | bags 6 |
| Whelks | ... | ... | sack 1 |
| Winkles | ... | .. | bushel 1 |
| Sprats | ... | ... | barrels 3 |
| Bloaters | .. | ... | boxes 372 |
| Herrings | ... | ... | 5000 |
| Kippers | ... | ... | boxes 75 |
| Haddock | ... | ... | " 152 |
| " | ... | ... | 48 |
| " | ... | ... | cwt. 5 |
| Oranges | ... | ... | 2940 |
| Apples | ... | ... | barrels 62 |
| Pears | ... | ... | boxes 35 |
| Plums | ... | ... | bushels 4 |

GENERAL INSPECTION OF THE BOROUGH.

During the year 7322 houses were inspected and Notices were served to abate any nuisances that were existing.

11,694 re-inspections to houses under Nuisance Notices were made during the progress of the work.

631 complaints were received at the Office and received attention.

SLAUGHTERHOUSES — The slaughterhouses have been regularly visited by your Inspectors, and I am pleased to say

that generally they have been well kept. Some of the older premises are not in accordance with modern requirements, being situated in densely populated localities and abutting on the streets. There are at the present time 98 in actual use, five of which are provisionally licensed for one year only. During the year 5005 visits have been made.

DAIRIES, COWSHEDS AND MILKSHOPS.—243 persons applied to be registered as cowkeepers, dairymen, and purveyors of milk during the year. The premises have been kept in a cleanly state and in accordance with the regulations. There are now only fourteen cowkeepers in the Borough. 2198 visits of inspection have been made during the year.

COMMON LODGING HOUSES—There are twenty common lodging houses now in use in the borough, having accommodation for 453 persons.

It has been necessary to take proceedings against the keeper of one house, on two occasions, for breaches of the Common Lodging House Bye Laws. On the first occasion he was fined £6 19s., and on his second appearance £11 8s. 6d., but in default of payment went to gaol for a month.

One new lodging house has been added to the register during the year.

616 visits have been made, including 269 night visits.

WORKSHOPS.—Inspector Gray has made 3240 visits to the various workshops and outworkers' premises, under the Factory and Workshops' Act, and 250 visits to shops under the Shop Hours' Act. He also made 934 inspections of the bakehouses in the borough.

INFECTIOUS AND ZYMOTIC DISEASES.

During the year 1947 cases of Infectious and Zymotic Diseases were investigated.

321 premises where fatal cases of tuberculosis occurred

were examined, and many of the rooms occupied by the patients were disinfected. 637 patients were removed to the Infectious Diseases Hospital, and altogether 1819 rooms were fumigated, chiefly by means of formalin, by the Disinfector.

DRAINAGE AND SANITARY FITTINGS.

5124 drains were tested or re-tested, of which 1343 or 26·2 per cent were found defective.

The whole of St. Swithin's Roman Catholic School drainage has been relaid under our supervision.

The water closet fittings, urinals, etc., of the whole of the Council Schools have been examined and reported on, and a report was presented to the Clerk to the Education Committee on the subject.

The whole of the Public Urinals have also been examined and reported on.

WORKHOUSE AND CHILDRENS' HOME DRAINAGE.—After many meetings and much delay the Portsmouth Guardians have decided to relay the drains of their institutions. Plans have been submitted and a good deal of the work has been carried out and tested by the drainage inspector (Mr. Turner). The report I submitted to the Health Committee on December 18th, 1903, was entirely corroborated by their expert, Mr. A. E. Stallard, Surveyor, Havant.

Inspector Turner has also tested the drains in connection with 2595 new houses, and the inside sanitary fittings of 899 houses.

Many complaints with respect to combined drains, belonging to different owners, have been made under Section 41 of the Public Health Act, 1875, and Section 19 of the Public Health Acts Amendment Act, 1890, in which cases the drains have been opened, and the work in connection with the combined drains done by the Engineers' staff at the cost of owners.

SALE OF FOOD AND DRUGS' ACT AND THE MARGARINE ACT.

Under the above Acts 997 samples have been procured and submitted for analysis to the Public Analyst, against 654 obtained in 1903. Seventy-two were found adulterated, or 7·2 per cent.

In June last Inspector Hobbs was appointed solely for this duty.

SMOKE OBSERVATIONS.

During the year considerable time was spent in making smoke observations of the black smoke issuing from the various smoke shafts in the borough.

142 observations were made and the results reported to the Health Committee.

In consequence of such reports, particulars were obtained from other large towns, and in June last the Committee fixed the limit during which the black smoke should be allowed, viz.

In the case of one boiler, not more than three minutes per hour.

In the case of two boilers, not more than five minutes per hour.

In the case of three to five boilers, not more than seven minutes per hour.

In the case of six or more boilers, not more than ten minutes per hour.

Printed cards were sent to the proprietors calling their attention to the times, and threatening proceedings if the times were exceeded, but no action has yet been taken, as our own Electric Light Station is by far the greatest offender.

LEGAL PROCEEDINGS.

Public Health Act.—The following proceedings were taken, viz.—

To abate nuisances at—

| | | |
|------------------------|-----|---|
| 64, Cottage View | ... | Order to do the work in 14 days and pay 13/6 costs. |
| 3, Bridport Street | ... | Case withdrawn. Work done before the hearing. |
| 11, Clarendon Street | ... | Order to do the work in 14 days and pay 9/- costs. |
| 23, Warblington Street | | Order to do the work in 14 days and 13/6 costs. |
| 25, Maitland Street | ... | Order to do the work in 14 days and 13/6 costs. |
| 3, Curtis Terrace | ... | Order to do the work in 14 days and 13/6 costs. |
| 45, Samuel Road | ... | Case withdrawn. Work done before hearing. |
| 49, do. | ... | Do. |
| 30, Town Street | ... | Order to do the work in 14 days and pay 13/6 costs. |
| 38, do. | ... | Do. |
| 17, South Road | ... | Order to do the work in 14 days and pay 13/6 costs. |
| 19, do. | ... | Do. 14/6 costs. |
| 23, do. | ... | Do. 14/6 costs. |
| 25, do. | ... | Do. 13/6 costs. |
| 27, do. | ... | Do. 16/- costs. |

Total—£8 15s. 6d.

For non-compliance with a magistrate's order to abate a nuisance at 23, Warblington Street, defendant was fined 6d. a day for 120 days and 11/6 costs. £3 11s. 6d.

Nuisance Bye-Laws—Under these bye-laws proceedings were taken against two persons, and fines and costs amounting to £2 in one case, and 10/- in the second case, were inflicted. £2 10s.

Common Lodging Bye-Laws.—

| | | | | |
|--------------------------------|-------|-----|----|------------|
| Non-compliance with Bye-Law 7. | Fined | £1 | 15 | 6 |
| " " " 9. | " | 1 | 14 | 6 |
| " " " 11. | " | 1 | 14 | 6 |
| " " " 16. | " | 1 | 14 | 6 |
| " " " 7. | " | 2 | 19 | 6 |
| " " " 9. | " | 5 | 19 | 6 |
| " " " 11. | " | 2 | 19 | 6 |
| " " " 16. | | | | dismissed. |
| <hr/> | | | | |
| | | £18 | 7 | 6 |

Dairies, Cowsheds, and Milkshops' Order.—One dairyman was summoned for keeping a dairy in a dirty condition in contravention of Order 11 of the Dairies, Cowsheds, and Milkshops' Order, 1885. He was fined, including costs, £2 9s. 6d.

Unsound Food—The following proceedings have been taken with regard to diseased and unsound food, viz.—

| | | | | |
|---|-----|-----|----|-----------|
| For depositing for the purpose of sale 24 pieces of meat which were unfit for the food of man. | | | | |
| Fined 5/- each piece and 15/6 costs | ... | £6 | 15 | 6 |
| For depositing for the purpose of sale 84 pieces of meat which were unfit for the food of man. | | | | |
| Fined 2/- each piece and 23/- costs | ... | 9 | 11 | 0 |
| For exposing for sale 37 pieces of diseased meat. Fined 10/- each piece and costs 18/6 | | 19 | 18 | 6 |
| For depositing in a slaughterhouse 1 piece of diseased meat. Fined 10/- and 8/6 costs (defendant in previous case) | .. | 0 | 18 | 6 |
| For being in possession of 27 cod fish intended for the food of man, in transit to the Portsmouth Workhouse under a contract. Fined 10/- each fish and 15/6 costs | ... | 14 | 5 | 6 |
| Do. with respect to 44 fish consigned to the Portsmouth Infirmary | ... | | | withdrawn |
| <hr/> | | | | |
| | | £50 | 19 | 0 |

Food and Drugs Act.—

| OFFENCE. | | RESULT. | |
|--|-----|--|-----------------|
| Selling Coffee containing 58 p.c. Chicory | ... | £0 10 0 | including costs |
| " " 52 " " | ... | 0 10 0 | " |
| " " " " " | ... | 0 10 0 | " |
| " " 65 " " | ... | 0 10 0 | " |
| Selling Milk 5 p.c. deficient in milk fat | ... | 1 0 0 | " |
| " 53 " " (8th conviction) | ... | 10 0 0 | " |
| " 6 " " " | ... | Dismissed. Defendent satisfying the Court that it was sold as milked from the cows | |
| " 5 " " (7th conviction) | ... | 1 0 0 | including costs |
| Selling Whisky 29.2 deg. under proof | ... | 1 9 6 | " |
| " Milk 5 p.c. deficient in milk fat | ... | 0 11 6 | " |
| " Coffee containing 30 p.c. Chicory | ... | 1 0 0 | " |
| " Milk 10 p.c. deficient in milk fat | ... | 1 10 0 | " |
| " " " " (2nd conviction) | ... | 3 10 6 | " |
| " " " " (9th ") | ... | 2 0 0 | " |
| " " 26 " " " | ... | 2 13 0 | " |
| " Coffee containing 45 p.c. Chicory | ... | 0 10 0 | " |
| " " " " " | ... | 3 10 0 | " |
| " Milk 10 p.c. deficient in milk fat (3rd conviction) | ... | 5 0 0 | " |
| " Butter having 12 p.c. excess of moisture | ... | 0 10 0 | " |
| " Milk 5 p.c. deficient in milk fat | ... | 2 4 6 | " |
| " " " " " | ... | 2 3 6 | " |
| " " 10 " " (5th conviction) | ... | 2 0 0 | " |
| " " 11 " " (3rd ") | ... | 5 0 0 | " |
| " " 11 " " " | ... | Withdrawn. Milk sold by the defendent in previous case | |
| " " 6 " " " | ... | 0 1 0 | no costs |
| " " 5 " " " | ... | 0 16 0 | including costs |
| " " 20 " " " | ... | Dismissed | |
| " " 10 " " " | ... | Dismissed. Defendant proved to the satisfaction of Court that it was sold as milked from the cows | |
| " " 6 " " " | ... | Withdrawn | |
| " " 10 " " " | ... | Dismissed. Defendant proving to the satisfaction of the Bench that it was sold as milked from the cows | |
| " " 13 " " " | ... | Withdrawn | |
| " Preserved Peas containing 1½ grs. of Sulphate of copper to the pound | ... | " | |
| " Milk 6 p.c. deficient in milk fat | ... | Dismissed. Defendant proving to the satisfaction of the Bench that it was sold as milked from the cows | |
| " " 6 " " " | ... | " | |

| | |
|---|-------------------------|
| Selling Milk, 8 p.c. added water and 17 p.c. deficient in fat | £2 19 6 including costs |
| " Lard containing 50 p.c. vegetable oil | Dismissed |
| " Milk 20 p.c. deficient in milk fat | 1 0 0 including costs |
| " " 6 " " " (2nd conviction) | 1 0 0 " |
| " " 5 " " " " | 1 0 0 " |
| " " 20 " " " " | 0 15 0 " |
| " " 5 " " " " | 0 10 0 " |
| " Coffee containing 45 p.c. Chicory | 0 10 0 " |
| " Milk 20 p.c. deficient in milk fat | 2 17 0 " |
| " " 93 " " " " | 1 0 3 " |
| " " 30 " " " (5th conviction) | 8 1 6 " |
| " Coffee containing 33 p.c. Chicory | 0 10 0 " |
| " Milk containing 19 p.c. added water (6th conviction) | 5 15 0 " |
| " Margarine for Butter (3rd conviction) | 21 0 6 " |
| " " " " | 1 13 6 " |
| " Coffee containing 50 p.c. Chicory | 1 9 6 " |
| " Milk 5 p.c. deficient in fat | 1 0 0 " |
| " Whisky 6 p.c. added water | 3 14 6 " |
| " " 4 " " " | 2 14 0 " |
| " Milk 16 p.c. deficient in milk fat | 2 4 6 " |
| " Brandy containing 37 p.c. spirit not derived from the grape | Dismissed |
| " Brandy containing 74 p.c. spirit not derived from the grape | Withdrawn |
| TOTAL | £105 4 6 |

Margarine Act.—Under this Act proceedings were taken against two persons, who were each fined 10/- including costs.

Informations were laid in two other cases, but as the defendants were convicted under the Food and Drugs' Act, the summonses were withdrawn.

I am, Gentlemen,

Your obedient servant,

FRED. L. BELL,

Chief Inspector of Nuisances.

The Diseases of (Animals) Act.

INSPECTOR'S REPORT,

for the year ending 31st December, 1905.

Inspection of Cattle—The following is a list of animals which have been imported into the Borough during the year ending December 31st, 1904. The greater number arrived at the Fratton Railway Station from various markets and sales—

| | | | |
|--------|------|------|--------------|
| Beasts | | | 8,593 |
| Sheep | | | 27,517 |
| Calves | | | 3,645 |
| Pigs | | | 16,510 |
| | | | <hr/> 56,510 |

Inspection of Cattle Trucks, &c.—2,829 cattle trucks, 1,179 horse boxes and 231 tow-boats have been inspected during the year ; all were found to be properly cleansed and lime-washed, in accordance with the requirements of the Act.

Swine Fever.—There has not been a single outbreak of this disease in the Borough during the year. I attribute this to the greater care which has been exercised in the purchase of store pigs and the prompt action of the Board of Agriculture and Fisheries. The regulations promulgated, governing the movement of pigs about the country, proves very efficacious at certain periods and has a tendency to materially reduce the number of outbreaks, especially the Markets and Sales' Order, dated 23rd June, 1903, which came into force on 23rd June, 1904.

In addition to the various orders issued by the Board for

the counties around Portsmouth, it was deemed necessary on the 1st October, 1904, to declare the county boroughs as scheduled areas, and in consequence of that order, I issued 223 licenses for the movement of pigs from outside scheduled areas into this borough for immediate slaughter, which licensed no less than 2093, and I also received 76 licenses for other parts of the county which had my supervision until slaughtered.

Rabies.—The police and others have reported many suspicious cases of dogs during the year, but in all cases upon examination by Mr. F. E. Knott, M.R.C.V.S., they have been certified to be common ailments applicable to dogs, but free from rabies.

Importation of Dogs' Order, 1901.—Licenses from the Board, and negotiations from the customs, have been forwarded to me through the Town Clerk, with instructions to make inquiries into each case, and see that the conditions of the Act have been rigorously carried out, and if any infringement has been committed, it has been reported by me to the Town Clerk, who reported the same to the Board of Agriculture. Since my report last year a great improvement has been made, but still difficulties arise on His Majesty's Ships arriving from foreign ports. There appears to be no one on board responsible for the dogs on foreign stations when embarked. I would suggest that the Chief of Police in H.M. Ships, subject to the Commanding Officer's direction, should be held responsible that the dogs on arrival at home are duly handed over to the Customs, who might detain them in their shed in the Royal Dockyards, until the issue of the necessary permit or receipt of final instructions from the Board of Agriculture. This would be the most efficacious manner of enforcing the Act in its entirety.

Epizootic Lymphangitis Order, 1904.—This order only came into force this year. I have only had one case of this disease reported to me, which occurred in a stable situated at

Milton belonging to a contractor. The horse suffering from this disease was reported by Messrs. Newman & Son, Veterinary Surgeons, Southsea. The committee at once met, and the owner wished the horse to be killed, which was done, and duly buried in accordance with the Act.

Glanders.—During the latter part of this year five outbreaks of this disease have occurred in various parts of the borough, and as it threatened to spread, the Health Committee deemed it expedient to prohibit the use of all public drinking troughs in the borough for a certain period.

I have not found it necessary to recommend the institution of proceedings against any person or persons for omitting to report outbreaks, or committing any contravention of the Acts.

I am, Gentlemen,

Your obedient servant,

G. W. MONKCOM.

BOROUGH OF PORTSMOUTH.

Public Analyst's Report

For the Year ending Dec. 31st, 1904.

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

GENTLEMEN,

I have the honour to present you with my report for the year ending December 31st, 1904.

During the year 997 samples were submitted for analysis. The following tables show the nature and number respectively of the samples submitted, with the number reported as genuine and the number adulterated, also the nature and extent of the adulteration in each case.

The final table contrasts the rate of adulteration during the past three years with that in England and Wales.

Total number of samples (1904) :—

| Article. | No. Examined | No. Genuine | Adulterated | Percentage Adulterated |
|--------------------------------------|-----------------|----------------|-------------|---------------------------|
| Milk | 596 | 554 | 42 | 7·05 |
| Skimmed and Separated Milk | 9 | 8 | 1 | 11·1 |
| Butter | 152 | 145 | 7 | 4·6 |
| Margarine | 12 | 11 | 1 | 8·3 |
| Spirits | 47 | 41 | 6 | 12·7 |
| Coffee | 38 | 28 | 10 | 26·3 |
| Wheat and other Flour | 21 | 21 | 0 | 0 |
| Lard | 20 | 19 | 1 | 5·0 |
| Tea | 15 | 15 | 0 | 0 |
| Vinegar | 8 | 6 | 2 | 25·0 |
| Treacle | 6 | 6 | 0 | 0 |
| Sugar | 5 | 5 | 0 | 0 |
| Bread | 3 | 3 | 0 | 0 |

Total number of samples (1904) (contd.) :—

| Article. | No. Examined | No. Genuine | Adulterated | Percentage Adulterated |
|--------------------------|-----------------|----------------|-------------|---------------------------|
| Preserved Vegetables ... | 3 | 2 | 1 | 33·3 |
| Jam ... | 2 | 2 | 0 | 0 |
| Mustard ... | 2 | 2 | 0 | 0 |
| Ginger ... | 2 | 2 | 0 | 0 |
| Sausages ... | 2 | 1 | 1 | 50·0 |
| Tinned Fruit ... | 1 | 1 | 0 | 0 |
| Pepper ... | 1 | 1 | 0 | 0 |
| Honey ... | 1 | 1 | 0 | 0 |
| Cocoa ... | 1 | 1 | 0 | 0 |
| Suet ... | 1 | 1 | 0 | 0 |
| Drugs ... | 27 | 27 | 0 | 0 |
| | 997 | 925 | 72 | 7·2 |

ADULTERATED SAMPLES.

| No. | Sample | Nature and extent of Adulteration | Result, Fines, &c. |
|-----|------------------|--|--|
| 15 | Milk ... | 5 p.c. deficient in milk fat... | Fined £1 inclusive |
| 40 | Malt Vinegar ... | 75 p.c. distilled vinegar ... | No prosecution |
| 42 | Coffee ... | 52 p.c. chicory ... | Fined 10/- inclusive |
| 43 | Do. ... | 59 do. ... | do. |
| 48 | Malt Vinegar ... | 70 p.c. distilled vinegar ... | No prosecution |
| 50 | Coffee ... | 65 p.c. chicory ... | Fined 10/- inclusive |
| 51 | Do. ... | 52 do. ... | do. |
| 62 | Milk ... | 53 p.c. deficient in milk fat | Fined £10 inclusive |
| 75 | Do. ... | 5 do. ... | Fined £1 inclusive |
| 76 | Do. ... | 6 do. ... | Dismissed; Magistrates satisfied it was sold in the same state as drawn from the cow |
| 81 | Butter ... | 100 p.c. margarine ... | Fined 10/- inclusive |
| 137 | Milk ... | 5 p.c. deficient in milk fat... | Fined 1/- and 10/6 costs |
| 143 | Margarine ... | 13 p.c. butter fat and 18 p.c. water added ... | No prosecution |
| 145 | Coffee ... | 30 p.c. chicory ... | Fined £1 inclusive |
| 159 | Milk ... | 10 p.c. deficient in milk fat | Fined 30/- inclusive |
| 164 | Whisky ... | 29·2 degrees under proof ... | Fined £1 inclusive |
| 175 | Milk ... | 10 p.c. deficient in milk fat | Fined £3 and 10/6 costs |
| 218 | Do. ... | 26 do. ... | Fined £2 13s. inclusive |
| 232 | Do. ... | 10 do. ... | Fined £2 inclusive |
| 237 | Do. ... | 5 do. ... | Cautioned |
| 240 | Do. ... | 5 do. ... | Do. |
| 258 | Do. ... | 22 do. ... | Fined £5 inclusive |
| 269 | Coffee ... | 45 p.c. chicory ... | Fined 10/- inclusive |
| 275 | Do. ... | 45 do. ... | do. |
| 295 | Butter ... | 14 p.c. excess of moisture ... | do. |
| 300 | Do. ... | 75 p.c. of foreign fat ... | do. |
| 306 | Milk ... | 5 p.c. deficient in milk fat... | Fined £1 and £1 4s. 6d. costs, after Appeal to Somerset House |

Adulterated samples (contd.) :—

| No. | Sample | Nature and extent of Adulteration | | | Result, Fines, &c. |
|-----|----------------|-----------------------------------|---|-----|--|
| 325 | Milk | ... | 5 p.c. deficient in milk fat... | | Fined £1 and £1 3s. 6d. costs, after Appeal to Somerset House |
| 368 | Do. | ... | 10 do. | ... | Fined £2 inclusive |
| 384 | Do. | ... | 5 do. | ... | Fined 1/- and 15/- costs |
| 387 | Do. | ... | 6 do. | ... | Fined 1/-, no costs |
| 392 | Do. | ... | 11 do. | ... | Fined £5 inclusive |
| 394 | Do. | ... | 11 do. | ... | Proceedings withdrawn |
| 412 | Do. | ... | 5 do. | ... | Cautioned |
| 425 | Preserved Peas | ... | 1½ grains of copper sulphate per lb. | ... | Summons withdrawn |
| 434 | Milk | ... | 10 p.c. deficient in milk fat | | Dismissed; Court satisfied that it was delivered as drawn from the cow |
| 436 | Do. | ... | 13 do. | ... | Withdrawn |
| 440 | Do. | ... | 20 do. | ... | Case dismissed |
| 441 | Do. | ... | 10 do. | ... | Case dismissed; Court held it was delivered as drawn from the cows |
| 442 | Do. | ... | 6 do. | ... | Withdrawn |
| 454 | Do. | ... | 5 do. | ... | Farmer cautioned |
| 456 | Do. | ... | 6 do. | ... | Case dismissed; Court held it was delivered as drawn from the cows |
| 460 | Do. | ... | 6 do. | ... | do. |
| 505 | Sausages | ... | 72 p.c. boric acid | ... | No prosecution |
| 507 | Milk | ... | 23 p.c. deficient in milk fat | ... | Fined 10/- inclusive |
| 508 | Do. | ... | 26 p.c. added water | ... | No prosecution |
| 516 | Lard | ... | 50 p.c. vegetable oil | ... | Case dismissed |
| 522 | Milk | ... | 6 p.c. deficient in milk fat... | | Fined £1 inclusive |
| 537 | Do. | ... | 17 do. and 8 p.c. added water | ... | Fined 50/- and 9/6 costs |
| 571 | Do. | ... | 5 p.c. deficient in milk fat and 20 grns. boric acid to gall. | | Fined 10/6 the costs |
| 590 | Coffee | ... | 45 p.c. chicory | ... | Fined 10/- inclusive |
| 595 | Milk | ... | 5 p.c. deficient in milk fat... | | Fined £1 inclusive |
| 596 | Do. | ... | 20 do. | ... | Fined 15/- inclusive |
| 598 | Do. | ... | 5 p.c. added water | ... | No prosecution |
| 599 | Do. | ... | 93 p.c. deficient in milk fat | ... | Fined £1 inclusive |
| 600 | Do. | ... | 20 do. | ... | Fined £2 and 17s. costs |
| 664 | Coffee | ... | 35 p.c. chicory | ... | Fined 10/- inclusive |
| 706 | Milk | ... | 30 p.c. deficient in milk fat | ... | Fined £7 and 21/6 costs |
| 750 | Butter | ... | Margarine | ... | No prosecution (test sample) |
| 783 | Do. | ... | do. | ... | do. |
| 801 | Separated Milk | ... | 19 p.c. added water | ... | Fined £5 and 15/- costs |
| 805 | Butter | ... | 73 p.c. foreign fat | ... | Fined £20 and 20/6 costs |
| 814 | Coffee | ... | 50 p.c. chicory | ... | Fined £1 and 9/6 costs |
| 815 | Butter | ... | Margarine | ... | Fined £1 and 13/6 costs |
| 830 | Milk | ... | 5 p.c. deficient in milk fat... | | Fined 10/6 and 9/6 costs |
| 869 | Do. | ... | 16 p.c. added water | ... | Fined 30/- and 14/6 costs |
| 887 | Whisky | ... | 6 do. | ... | Fined £3 and 14/6 costs |
| 901 | Milk | ... | 5 p.c. deficient in milk fat... | | No prosecution (private sample) |
| 902 | Brandy | ... | 75 p.c. of spirit not derived from the grape | ... | Withdrawn |
| 906 | Do. | ... | 37 do. | ... | Case dismissed |
| 907 | Whisky | ... | 4·7 p.c. added water | ... | Fined £2 and 14/- costs |
| 945 | Brandy | ... | 37 p.c. of spirit not derived from the grape | ... | No prosecution (card in bar) |

The fines, including costs, amounted to £106 4s. 6d.

Table shewing number of samples, and the number found adulterated during the last three years in Portsmouth :—

| | | Year | Samples Examined | No. Adulterated | Percentage Adulterated |
|-------------------|-----|------|---------------------|--------------------|---------------------------|
| PORTSMOUTH | ... | 1902 | 300 | 52 | 17·33 |
| Do. | ... | 1903 | 654 | 76 | 11·5 |
| Do. | ... | 1904 | 997 | 72 | 7·2 |
| England and Wales | ... | 1903 | 78,077 | 6,169 | 7·9 |

The above table indicates a very great improvement in the extent of adulteration, but the number of adulterated samples collected remains practically the same as before, adulteration is therefore still largely practised in Portsmouth.

With regard to the 596 samples of milk examined there is a marked decrease in the number adulterated.

I have separated them into 4 divisions : adulterated 42 ; poor quality, 21 ; low in fat, January to July, 59 ; low in fat, July to December, 106 ; and the remainder of undoubtedly genuine character.

The following table shows the mean analytical figures of the samples in each category :—

| | No. | Fat | Specific Gravity |
|---|-----|------|---------------------|
| Poor quality | 22 | 2·95 | 1032·5 |
| Low in fat (January to July) | 59 | 3·11 | 1032·7 |
| Do. (July to December) | 106 | 3·23 | 1032·1 |
| Undoubtedly genuine | 367 | 3·78 | 1031·8 |
| General mean for last three headings | 532 | 3·59 | 1031·9 |

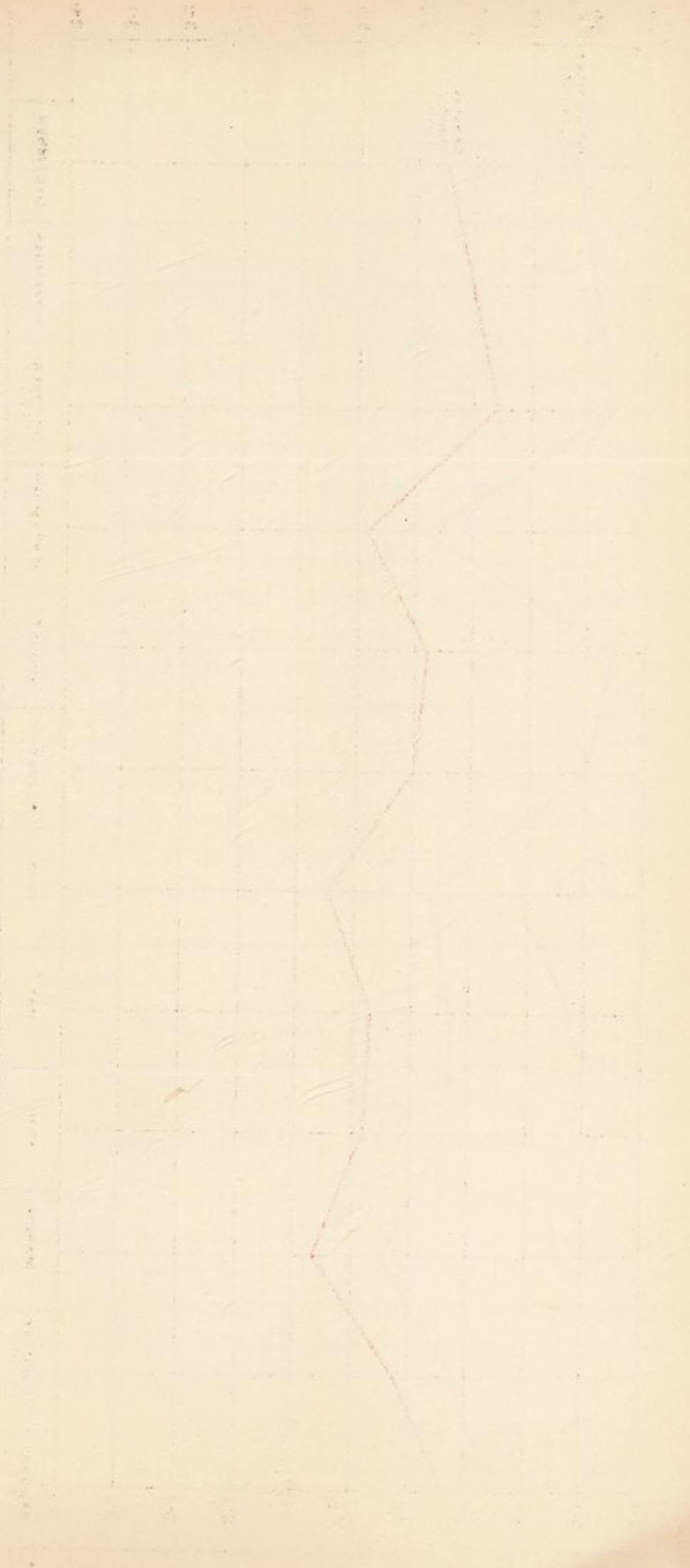
| | January | | February | | March | | April | | May | | June | |
|------------------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|
| | Specific Gravity | Fat | Specific Gravity | Fat | Specific Gravity | Fat | Specific Gravity | Fat | Specific Gravity | Fat | Specific Gravity | Fat |
| General Mean ... | 1032.0 | 3.66 | 1032.7 | 3.59 | 1032.7 | 3.43 | 1032.2 | 3.51 | 1032.5 | 3.52 | 1032.5 | 3.46 |
| Genuine ... | 1031.8 | 3.74 | 1032.6 | 3.69 | 1032.7 | 3.55 | 1032.0 | 3.66 | 1032.5 | 3.68 | 1032.5 | 3.64 |
| Low in fat ... | 1033.1 | 3.10 | 1032.9 | 3.17 | 1032.9 | 3.10 | 1032.5 | 3.09 | 1032.8 | 3.10 | 1032.5 | 3.11 |

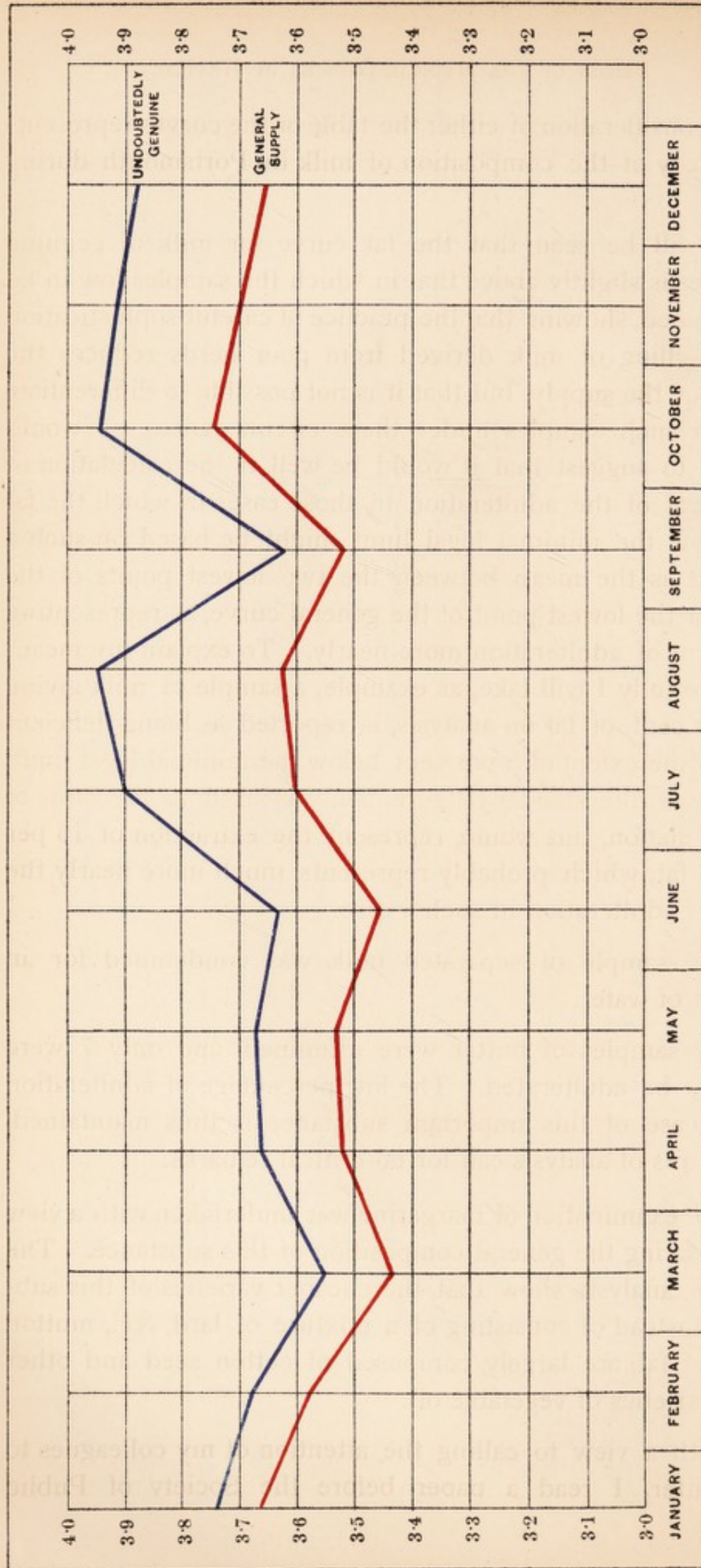
Below 3.3 regarded as low in fat.

| | July | | August | | September | | October | | November | | December | |
|------------------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|------------------|------|
| | Specific Gravity | Fat | Specific Gravity | Fat | Specific Gravity | Fat | Specific Gravity | Fat | Specific Gravity | Fat | Specific Gravity | Fat |
| General Mean ... | 1031.9 | 3.60 | 1031.9 | 3.62 | 1031.8 | 3.51 | 1032.1 | 3.74 | 1031.8 | 3.70 | 1032.3 | 3.66 |
| Genuine ... | 1031.5 | 3.90 | 1031.8 | 3.95 | 1031.1 | 3.72 | 1032 | 3.95 | 1031.9 | 3.92 | 1032.1 | 3.89 |
| Low in fat ... | 1032.3 | 3.22 | 1032.3 | 3.23 | 1032.6 | 3.25 | 1032.2 | 3.26 | 1031.8 | 3.22 | 1031.6 | 3.23 |

Below 3.5 regarded as low in fat.







A consideration of either the table or the curves represents the history of the composition of milk in Portsmouth during 1904.

It will be seen that the fat curve for milk of genuine character is slightly above that in which the samples low in fat are included, showing that the practice of careful sophistication or the selling of milk derived from poor herds reduces the quality of the supply, but that it is not possible to differentiate between such samples under these circumstances. I would venture to suggest that it would be well if the calculation of the extent of the adulteration in those cases in which the fat fall below the minimal legal limit might be based on such a standard as the mean between the two lowest points of the curve, or the lowest point of the general curve, as representing the extent of adulteration more nearly. To explain my meaning more fully I will take, as example, a sample of milk giving 2.85 per cent. of fat on analysis, is reported as being deficient in fat to the extent of 5 per cent. below the minimal legal limit, if, however, the standard figure, 3.4, was used as the basis of the calculation, this would represent the extraction of 16 per cent. of fat, which probably represents much more nearly the extent of adulteration in such a case.

One sample of separated milk was condemned for an addition of water.

152 samples of butter were examined, and only 7 were found to be adulterated. The low percentage of adulteration in the case of this important substance is thus maintained. The figures of analysis call for no critical remarks.

The examination of margarine was undertaken with a view to elucidating the general composition of this substance. The result of analysis show that the cheaper varieties of this substance, instead of consisting of a mixture of lard, &c., mutton and beef fat, are largely composed of cotton seed and other cheap varieties of vegetable oil.

With a view to calling the attention of my colleagues to this matter, I read a paper before the Society of Public

Analysts, in which I suggested the adoption of provisional standards to regulate the amount of vegetable oil and moisture in this substance, and I notice that in the report of the Local Government Board for 1903 and 1904, the addition of water is regarded as an offence under the Food and Drugs Act.

The examination of lard revealed the presence of adulteration, a mixture of cotton seed oil, suet and lard being purchased by the Inspector as lard.

The examination of coffee revealed the fact that the sale of mixtures of this substance with chicory, as a substitute for genuine coffee, is still largely practised, a vitiated public taste may in this case offer some slight excuse to the fraudulent vendor. The mean adulteration, however, of 10 adulterated samples is 47 per cent. of chicory, the highest being 65, and the lowest 30, the adulteration is thus seen to be very extensive, to combat this form of adulteration, it would probably be necessary to make the sale of mixtures illegal as in the case of butter.

The examination of spirits showed the extent of adulteration by dilution to be much the same as in previous years, but of the 47 samples examined, 12 were samples of brandy, of these a much more extended examination was made with a view to arriving at the true composition of a sample of spirit to which the word brandy is applicable, genuine brandy, that is, a spirit distilled from wine in a pot still, is characterised by the presence of certain secondary constituents, of which the following are the chief: acidity, aldehydes, higher alcohols, furfural and ethers. In recent years the patent still has taken the place of the pot still, not only in the production of brandy, but also in that of other spirits, the result of the use of such a method is that brandy so obtained no longer possesses the secondary constituents which distinguish it from plain spirits. It thus loses the properties of brandy, and may be derived from any alcoholic source and thus ceases to be genuine brandy. Acting on this conclusion, and supported by a preponderance of opinions amongst my colleagues, I regarded 3 of these 12 samples of brandy as being adulterated. A prosecution was

conducted against the vendors of one of these samples, but the Justices held that patent still spirit must still be regarded as brandy as it might have been derived from the grape. Commenting on this decision, the *Lancet* speaks as follows: "The bench failed to convict, because in his evidence the public analyst admitted, very properly, that it was not possible to detect the difference between highly rectified grain spirit and highly rectified grape spirit by analysis. The words of the analyst's certificate were that the brandy contained 37 per cent. of spirit not derived from the grape, the fact is, that 'a spirit distilled or derived from the grape,' though a principal definition and description is not complete, and this was well brought out in the judgment given by Mr. Fordham in the Islington case, the certificate of analysis in which contained precisely the same words as those used by the Public Analyst of Portsmouth. I do not think, said this magistrate, that after a spirit obtained by the distillation of wine has been so highly rectified as to have lost the properties peculiar to spirit so obtained it is still spirit obtained by the distillation of wine, so as to fulfil the definition of brandy, that is the crux of the whole matter, silent or neutral spirit having its origin in the grape has no more the qualities of brandy than has a spirit distilled from any other material, otherwise the significance of the term brandy is lost and may as well be given up as meaningless."

I venture to take this opportunity of recording my indebtedness to my late pupil and assistant, Mr. V. H. Kirkham, B.Sc. (Lond.), A.I.C., whose diligent and methodical work enhanced the value of many of the results recorded in this report.

I have the honour to remain,

Gentlemen,

Your obedient servant,

EDWARD RUSSELL,

B.Sc. (LOND.), F.I.C., F.C.S.,

Public Analyst.

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