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Contributors

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REPORT

ON THE

SANITARY CONDITION

OF THE

County Borough

OF

Birkenhead,

BY

R. SYDNEY MARSDEN,

D. Sc., M.B., Mast. Surg., D.P.H., F.R.S. & F.R.P.S., Edin., F. Inst. Chem., &c.

MEDICAL OFFICER OF HEALTH,

PHYSICIAN SUPERINTENDENT OF THE FEVER HOSPITAL,

AND

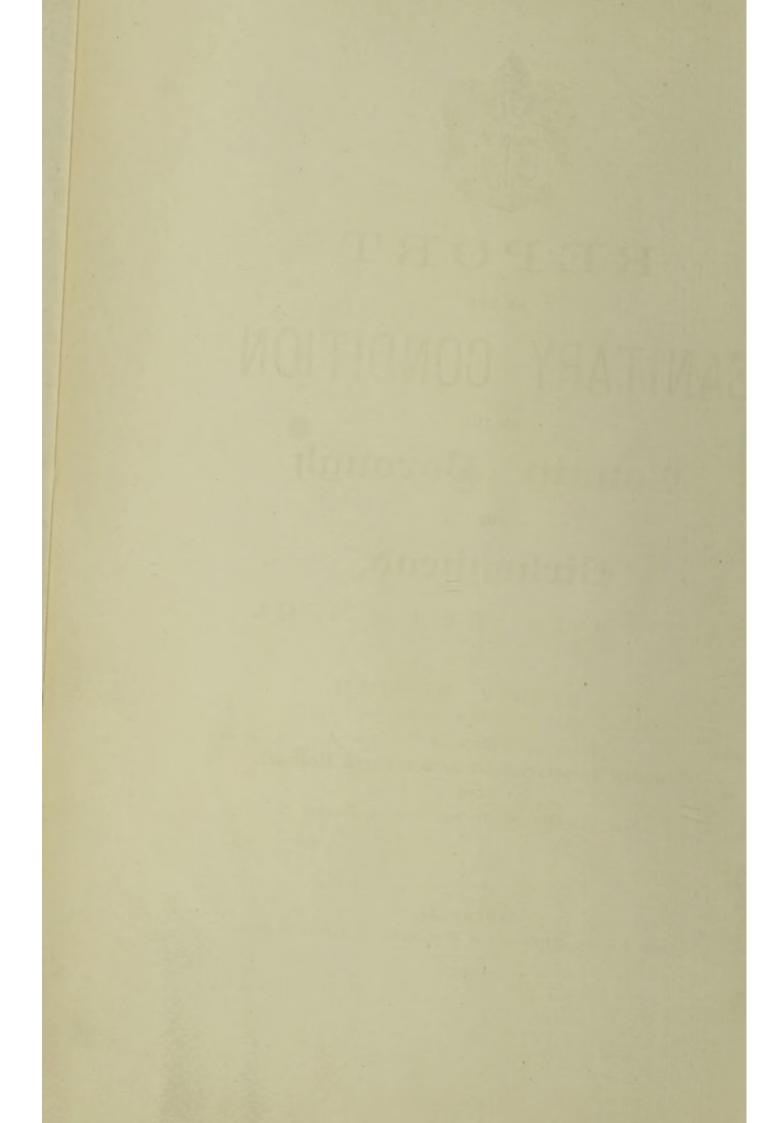
MEDICAL OFFICER TO THE SCHOOL BOARD.

BIRKENHEAD :

WILSON & JONES, PRINTERS AND STATIONERS, 70 ARGYLE STREET.









REPORT

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OF

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SFOR THE YEAR 1894.

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AND

MEDICAL OFFICER TO THE SCHOOL BOARD.

BIRKENHEAD:

WILSON & JONES, PRINTERS AND STATIONERS, 70 ARGYLE STREET.

HEALTH COMMITTEE

OF THE

BIRKENHEAD TOWN COUNCIL,

1894-95.

- *MR, ALDERMAN WILLIAM GETLEY, CHAIRMAN.
- *MR. COUNCILLOR BENEDICT JONES, J.P., DEPUTY-CHAIRMAN.
- *MR. ALDERMAN JOSEPH PERRIN.
- *MR. ALDERMAN JAMES WOODCOCK.
- *MR. ALDERMAN THOMAS CHARLES CLARKE.
- MR. COUNCILLOR EDWARD DENMAN.
- *MR. COUNCILLOR WILLIAM DOBIE.
- *MR. COUNCILLOR JOHN EDWARDS.
- *MR. COUNCILLOR CHARLES THOMAS GOSTENHOFER, J.P.
- *MR. COUNCILLOR CECIL HOLDEN.
- MR. COUNCILLOR EDWARD GEORGE MASON.
- *MR. COUNCILLOR HESLOP LAIRD PEARSON.
 - MR. COUNCILLOR EDWARD PAYSON SMITH.
- MR. COUNCILLOR GODFREY ALLAN SOLLY.

AND

HIS WORSHIP THE MAYOR.

(Mr. Alderman Thomas Shaw, J.P.)

Day of Meeting, Tuesday, at 4-30 p.m.
*Members of the Health Sub-Committee are marked thus.

OFFICIALS

OF THE

PUBLIC HEALTH DEPARTMENT,

1894.

Medical Officer of Health and Physician Superintendent of the Lever Hospital.

R. Sydney Marsden, D. Sc., M.B., Mast. Surg., Dip. Pub. Hlth., F.R.S. and F.R.P.S., Edin., F. Inst. Chem., &c.

Borough Analyst.

J. CARTER BELL, ASSOC. ROY. SCH. MINES., F. INST. CHEM., F.C.S., &c.

Chief Inspector and Inspector under the Food and Drugs Act. *WILLIAM DAWSON, ASSOC. SAN. INST.

Miss Emily Yeomans.

Chief Clerk.

EDWARD H. CARTER.

Junior Clerks.

WILLIAM RILEY.

JOSEPH BENNETT.

Inspector of Meat, Lish and Slaughter Houses.
ROBERT WAGSTAFFE.

District Sanitary Inspectors.

*WILLIAM FITZGERALD.

*JOHN LEE.

*H. T. TAYLOR.

Inspector of Workshops and Bakehouses.

Henry Mountfield.

Inspector of Back Passages and Ashpits.

ALBERT YOUNG.

Inspector of Common Lodging Houses and Houses let in Lodgings.

WILLIAM SCOTT.

Disinfecting Inspector.

ISAAC TAYLOR.

Those marked thus * have passed the examination of the Sanitary Institute.

CONTENTS.

| | PAGE. | | PAGE |
|---|-------|--|------|
| Area and Population of Birkenhead | 5 | Fever Hospital (New) | 45 |
| Acts of Parliament— | | Houses let in Lodgings | 33 |
| Factory and Workshop Acts | 36 | Infectious Diseases (notification of) 1894 | |
| Housing of the Labouring Classes Act | | Inquests | 26 |
| Sale of Food and Drugs Act, &c | 39 | Marriages during 1894 | 16 |
| Shop Hours Act, 1892 | 37 | Meat, Seizure and Destruction of | |
| Ashpits | 37 | Unwholesome | 38 |
| Bakehouses, Inspection of | 40 | Meteorological Results | 16 |
| Birkenhead— | | Open Sewer Ventilators | 41 |
| Births and Deaths registered 1894. | 7 | Open Spaces and Recreation Grounds | 41 |
| Birth and Deaths Rates for do | 8 | Ordinary Sanitary Operations | 33 |
| Births and Deaths, Quarterly returns | of 8 | Overcrowding and Cellar Occupation. | 33 |
| Births and Deaths, &c. in 33 great town | | Pauperism, (Maintenance of, &c.) | 15 |
| 1894 | 9 | Privies converted into Water Closets. | 38 |
| Cholera Order | 35 | Public Wash Houses | 42 |
| Classification of Death Causes | 18 | Refuse Destructor | 46 |
| Common Lodging Houses | 32 | Summary of Nuisances dealt with | 34 |
| Dairies, Cowsheds and Milkshops | 40 | Statistical Tables | |
| Deaths classified according to localities | 28 | Population-Births and Deaths | |
| ,, in Union Hospital and Workhous | se 30 | registered with corresponding | |
| ,, of Illegitimate Children | 14 | Rates, 1878-94 | 11 |
| ,, of Infants under one year of age | e 13 | Mortality from the Chief Zymotic | |
| ,, Not Certified | 27 | Diseases with corresponding | |
| " percentage of at certain ages | | rates, 1878-94 | 30 |
| to total deaths | 13 | Notification of the Chief Zymotic | |
| Description of those who died during | | Diseases, 1882-94 | 24 |
| 1894 | 31 | Tabular Statements | 11 |
| Disinfecting House | 45 | Uninhabited Property (Return of) | 7 |
| District Inspection | 35 | Vaccination | 15 |
| Fever Hospital, Livingstone Street | 43 | Zymotic Diseases, 1894 | 20 |

APPENDIX.

Statistical Tables I., II., III., IV., V., VI., & VII. Sketch Map of the Borough.

THE SANITARY CONDITION

OF THE

COUNTY BOROUGH OF BIRKENHEAD DURING 1894.

Report of the Medical Officer of Health to the Health Committee.

Area.—The Borough has an Area of 3849½ acres, or a little more than six square miles.

Population.—The population at midsummer, 1894, as estimated by the Registrar-General, was 105,627—an addition of 1810 persons to the estimated population at midsummer 1893.

This estimate, however, I consider to be about 500 too much on the following grounds. At the time of the Census in 1891 there were 17,495 inhabited houses, and a population of 99,857, giving an average population per house of 5.7 individuals. Since the Census was taken however, there had been 80 houses demolished and 361 houses built, up to midsummer, 1894, or taking the one from the other an addition of 281 houses to the total number in the Borough. After deducting the number of uninhabited houses at June, 1894, from the total number of houses in the Borough, we arrive at the total number of inhabited houses at midsummer, 1894, viz., 18,442 as compared with 17,495 at the time of the Census. Now if we allow the same number of persons per house as was found to exist at the time of the Census return, viz., 5.7, and multiply this by the number of inhabited houses we shall arrive at a more accurate estimate of the population than by the method adopted by the Registrar-General. In this way $5.7 \times 18,442 =$ 105,119 which I consider was the true population of Birkenhead at midsummer, 1894. In calculating the rates, &c. contained in the following tables, I have adhered to the usual custom of taking the Registrar-General's estimate, as otherwise the rates would not be comparable with former reports or with those of other towns, where his estimates are almost invariably taken.

The population of the several townships forming the Borough as given in the Census of 1891, and the estimated population at midsummer, 1894, are conveniently arranged in tabular form as follows:—

| Townships | Popula- tion at Census 1891 | Population at Midsummer 1894 |
|--------------------|--|--|
| Birkenhead | 58287 3510 30680 4429 2951 | 61656 3713 32453 4684 3121 |
| Birkenhead Borough | 99,857 | 105,627 |

Area in acres.—Density of Population.—The next table shows the area in statute acres of the townships forming the Borough, and the proportion of persons per acre in each. It will be seen that there is a great difference in the density of population of Birkenhead and Tranmere, and yet a greater difference in this respect between either of these townships and the semi-rural townships of Claughton, Oxton and Bebington.

| Townships | Area in Acres | Persons per Acre |
|---|-------------------------|------------------------|
| Birkenhead | 12793 4383 | 48·16 8·46 |
| Tranmere Oxton Higher Bebington (part of) | 1071 814 245 2 | 30·30 5·75 12·68 |
| Birkenhead Borough | 38491 | 27:44 |

Uninhabited Property in the Borough.—I am indebted to the Chief Constable for the particulars contained in the following table, showing the amount of uninhabited property in the Town from March 31st to September 30th, 1894.

| Return of Un | inhabited Proper | ty in | the B | orough, | 1893-9 | 4. |
|------------------------|---|-------------------|-------|-----------|------------------|-------|
| | District. | Private Houses | Shops | Cottages | Dock Cottages | Total |
| For the Half-year | Birkenhead | 49 | 75 | 341 | | 465 |
| ending 31st March, | Claughton and Oxton | 30 | 6 | 21 | 103 | 160 |
| 1893. | Tranmere & Bebington | 99 | 12 | 102 | | 213 |
| | Total for Borough | 178 | 93 | 464 | 103 | 838 |
| | n'destant | 47 | 81 | 370 | | 498 |
| For the Half-year | Birkenhead Claughton and Oxton | 29 | 3 | 22 | 98 | 152 |
| ending 30th September, | Tranmere & Bebington | - | 19 | 115 | | 230 |
| 1893. | Total for Borough | 172 | 103 | 507 | 98 | 880 |
| | Distant 3 | 57 | 00 | 493 | | 640 |
| For the Half-year | Birkenhead | 57 28 | 90 | 29 | 102 | 162 |
| ending 31st March, | Claughton and Oxton Tranmere & Bebington | 125 | 24 | 124 | | 273 |
| 1894. | Total for Borough | 210 | 117 | 646 | 102 | 1075 |
| | Di-11 | 0.5 | 01 | 077 | | 493 |
| For the Half-year | Birkenhead | 35 40 | 81 | 377 31 | 94 | 169 |
| ending 30th September, | Claughton and Oxton Tranmere & Bebington | | 10 | 77 | | 217 |
| 1894. | Total for Borough | 205 | 95 | 485 | 94 | 879 |

It will be seen from the above that the number of uninhabited houses on the 30th September, 1894, was one less than that for the half-year ending 30th September, 1893, and that in spite of the fact that a number of new houses were built during the year, (the exact number I have been unable to obtain), and that in 1892-93, the number of new houses built was 210.

Births and Deaths in Birkenhead.—During the year 1894, the returns of the local registrars recorded 3,246 births and 1,915 deaths in the Borough of Birkenhead. The natural increase in the population in 1894 was therefore 1,331. Of the births 1,675 were males, and 1,571 were females; of the deaths 984 were males, and 931 were females.

The excess of births over deaths during the last five years is shown in the following table:—

| | | 1890 | 1891 | 1892 | 1893 | 1894 |
|---------------------------------|----|--------------|--------------|--------------|--------------|--------------|
| Births Deaths | :: | 3302 2084 | 3286 2100 | 3341 1967 | 3431 2132 | 3246 1915 |
| Excess of Births over Deaths | - | 1218 | 1186 | 1374 | 1299 | 1331 |

Further particulars as to the births and deaths in the Borough in 1894, that is to say, the number registered in each quarter of the year, and the number referred to each township, are given in the tables subjoined. The births and deaths in the premises belonging to the Union are entered separately.

| BIRTHS | 1st | Qr. | 2nd Qr. | | 3rd Qr. | | 4th | Qr. | 1 | Total | |
|--|--------------------------------|---------------------------|----------------------------------|----------------------------------|---------------------------------|--------------------------------|---------------------------------|---------------------------------|-------------------------------------|------------------------------|-------------------------------------|
| DIATHS | м. | F. | M. | F. | м. | F. | м. | F. | M. | F. | |
| Birkenhead Claughton Tranmere Oxton Bebington Union Hospital | 300 6 132 5 6 9 | 276 7 111 7 5 | 273 10 130 12 4 3 | 284 14 108 14 4 7 | 263 5 132 11 4 2 | 260 8 144 9 3 5 | 234 9 109 10 3 3 | 230 11 101 9 2 2 | 1070 30 503 38 17 17 | 1000 40 464 39 9 | 2070 70 967 77 26 36 |
| Birkenhead Borough | 458 | 406 | 432 | 381 | 417 | 429 | 368 | 355 | 1675 | 1571 | 3246 |

| Davis | 1st | Qr. | 2nd | Qr. | 3rd | Qr. | 4th | Qr. | 18 | 94 | Total |
|--------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------|--------------------------------|--------------------------------|------------------------------------|------------------------------------|--------------------------------------|
| DEATHS | M. | F. | м. | F. | M. | F. / | M. | F. | M. | F. | 1001 |
| Birkenhead | 181 6 71 9 2 32 | 163 3 80 4 4 19 | 151 4 61 1 1 24 | 143 4 67 5 4 15 | 154 4 55 3 4 19 | 142 6 42 4 7 8 | 116 1 64 1 6 14 | 123 2 63 6 1 16 | 602 15 251 14 13 89 | 571 15 252 19 16 58 | 1173 30 503 33 29 147 |
| Birkenhead Borough | 301 | 273 | 242 | 238 | 239 | 209 | 202 | 211 | 984 | 931 | 1915 |

Birth-rates and Death-rates in Birkenhead.—The annual rates, per 1,000 living, of births and deaths, for the whole incorporated area and the townships within it, appear in the next table.

| | Annua per 1000 | l Rate Living |
|--|-------------------|------------------|
| 1894 | Births | Deaths |
| Birkenhead | 33:57 | 19:02 |
| Claughton | 18·85 29·79 | 8:07 15:49 |
| Oxton | 16.43 8.33 | 7.89 |
| Bebington | 9.99 | 9.22 |
| Birkenhead Borough including B. and D. in Union premises | 30.73 | 18-12 |

The birth-rate for 1894 is the lowest yet recorded. The death-rate is, with one exception, (1881), the lowest recorded since the incorporation of the Borough.

The death-rate of Birkenhead township being nearly 4 per 1,000 living higher than the death-rate in Tranmere, and nearly 11 per cent. higher than that of Claughton, is in part accounted for by the much greater density of population in Birkenhead. The death-rates of Oxton and Bebington being low is in part due to these being practically rural districts, to the easy circumstances of most of the inhabitants, and the large proportion of domestic servants and unmarried adults therein

Birth-rates and Death-rates in the 33 great towns in England.—In order that the birth-rates and death-rates of the Borough of Birkenhead in 1894 may be compared with the corresponding rates of the most populous cities and boroughs in England, the following table has been compiled from the Registrar-General's Quarterly Returns of Births, Deaths and Causes of Death in London and the other great towns, 1894. The table gives the estimated population of the 33 large towns and the estimated number of persons per acre in each at midsummer, 1894. The birth-rates and death-rates are for the 52 weeks ending 30th December, 1894.

38 Great Towns-Population, Persons to Acre, Births, Deaths, &c., for the Year 1894.

| | | 2.3 | 8.0 | 4 : | 1.4 | 1.5 | 1.00 | 1.1 | 2.0 | 1.7 | 3.1 | 2.0 | 0.0 | 0.00 | 1.3 | 00 0 | 1.80 | 3.6 | 4.8 | 4.0 | 6.0 | 1.0 | 3.6 | 1.0 | 6.0 | 1.0 | |
|-----------|--|---|--|--|--|--|--|--|--|---|--|---|--|--|--|--|--|---|---|---|---|--|--|--|--|--|--|
| year | nuger one | 152 | 143 | 121 | 138 | 169 | 141 | 163 | 168 | 164 | 162 | 123 | 143 | 179 | 160 | 17.4 | 170 | 169 | 217 | 135 | 145 | 155 | 157 | 142 | 152 | 157 | |
| .88. | odrraid | 5223 | 1780 | 233 | 52 | 56 | 88 | 200 | 957 | 43 | 176 | 34 | 48 | 909 | 346 | 141 | 44 | 86 | 157 | 15 | 129 | 175 | 191 | 138 | 44 | 26 | |
| | Fever | 1997 | 653 | 7 | 11 | 11 | 04 04 04 04 | 120 | 108 | 23 | 28 | 26 | 17 | 297 | 96 | 33 | 10 | 33 | 53 | 122 | 30 | 52 | 64 | 90 | 53 | 27 | |
| .dguo5 | Whooping- | 2936 | 2097 | 62 | 14 | 182 | 176 | 77 | 914 | 38 | 123 | 116 | 29 | 276 | 287 | 140 | 17 | 100 | 46 | 10 | 89 | 131 | 239 | 12.5 | 31 | 154 | |
| .eh | Diphther | 3979 | 2670 | 32 | 26 | 310 | 48 | 10 | 35 | 18 | 13 | 18 | 41 | 97 | 146 | 63 | 33 | 18 | 00 | 27.0 | 17 | 73 | 99 | 53 | 21 | 32 | |
| SAGE. | Scarlet Fe | 2177 | 962 | 8 00 | 4 1 | 200 | 16 | 0 00 | 53 | 15 | 08 | 15 | 120 | 529 | 113 | 112 | 12.22 | 6 | 12 | 623 | 750 | 255 | 40 | 33 | 207 | 53 | |
| 's | Measle | 6553 | 3293 | 40 | 38 | 130 | 1114 | 26 | 720 | 222 | 106 | 134 | 92 | 299 | 224 | 146 | 26 | 13 | 37 | 13 | 155 | 290 | 165 | 93 | 911 | 96 | |
| .же | A-llem8 | 450 | 88 | £ : | : | 4 10 | 16 | 1 : | 120 | 077 | | 00 | :- | 20 | 23 | 07 | 23 | : : | 1 | : | 97 | 00 | : | 00 | :- | | |
| 9 | riomyZ | 25412 13868 | 11544 | 172 | 143 | 139 | 461 | 168 | 274 | 1520 | 365 | 160 | 278 | 1726 | 1235 | 199 | 200 | 201 | 290 | 142 | 81 | 776 | 765 | 873 | 415 | 485 | |
| ate | Principal Zymotic Diseases, | 24 60 | 2.2 | 1.2 | 1.5 | 1.6 | 5.0 | 200 | 00 0 | 1.20 | 1.8 | 00 0 | 5.6 | 3.4 | 1.8 | 600 | 1.8 | 9.1 | 9.6 | 1.4 | 6.0 | 0.6 | 00.00 | 1.8 | 3.1 | # C1 | |
| r 1000 L | Deaths. | 18:1 | 17.8 | 13.5 | 16.4 | 18.3 | 17.3 | 17.0 | 20.7 | 18.6 | 14-7 | 17.2 | 18.1 | 23.8 | 18.8 | 21.0 | 18.6 | 12.0 | 8.03 | 15.8 | 16.5 | 17.0 | 17.8 | 17.4 | 8.0.8 | 18.3 | |
| Pel | Births. | 30.7 | 30.1 | 34.0 | 25.8 | 27.6 | 64.85 | 39.3 | 34.1 | 31.7 | 31.5 | 28.6 | 30.7 | 35.4 | 31.5 | 34.3 | 27.2 | 02.00 | 32.1 | 20.5 | 23.1 | 7.97 | 38.7 | 32.4 | 35.1 | 31.0 | |
| | Deaths. | 188995 | 77039 | 3841 | 1943 | 1605 | 8900 | 2408 | 1755 | 9125 | 2764 | 3844 | 1915 | 12062 | 2217 | 4310 | 2575 | 1799 | 2312 | 1552 | 1526 | 8797 | 5994 | 3683 | 2821 | 3684 | |
| | Births. | 320497 189944 | 130553 | 8067 | 3055 | 4709 9598 | 6373 | 5103 | 2889 | 15562 | 5984 | 6381 | 3246 | 17893 | 3721 | 2041 | 3762 | 3099 | 3566 | 1988 | 2142 | 1969 | 11967 | 8989 | 4768 | 6250 | |
| Persons | to an Acre 1894 | 34.9 | 58.5 | 50.6 | 46.9 | 39.6 | 20.8 | 24.6 | 24.1 | 38.7 | 22.0 | 20.4 | 30.3 | 97.3 | 50.5 | 80.8 | 29.3 | 24.6 | 97.4 | 8.3 | 10.9 | 20.8 | 12.9 | 56.0 | 47.5 | 37.6 | 5 |
| Estimated | Midsummer 1894 | 10458442 6109276 | 4349166 | 238184 | 118715 | 170973 | 226578 | 148890 | 82038 | 492301 | 189136 | 223584 | 104697 | 507230 | 118303 | 520211 | 138755 | 96478 | 125797 | 98511 | 92831 | 223985 | 388761 | 919679 | 196101 | 98372 | ******* |
| | | 33 Towns 32 Provincial Towns | ondon | Vest Ham | : : | : : | :: | : | ampton | ham | : | .: шв | herby | : : | : : | lanchester | : : | : | E | fleld | :: | :- | | : | :: | Teno | cucasuc-on-rine |
| | Annual Rate Der 1000 Living S. S. Ser. Childer Gent. o Birth | Persons to an Acre Births. Deaths. Births. Deaths. Births. Deaths. Births. Deaths. | Estimated Persons Population Populatio | Estimated Persons Population to an at Annual Rate Population to an at Acre Births. Deaths. Deaths. | Estimated Persons Persons Persons Population to an | Estimated Persons Per 1000 Living Per 1000 Living Per 1000 Living Population to an at the content of a per 1000 Living Population to an at the content of a per 1000 Living Population to an at the content of a per 1000 Living Per 1 | Estimated Persons Population to an at Acre Population to an at Acre | Destinated Persons Persons Persons Population to an an all the per 1000 Living Population to an all t | Estimated Persons Persons Persons Persons Persons Persons Population Population Population Persons Population Persons Pe | Perimated Persons Persons Persons Population to an to a pulation to an to an analysis Population to an appearance Population to appearance | Estimated Persons Portland Rate Derimal Derimal Rate Derimal Derimal Rate Derimal Derima | Perimeted Persons Persons Population to an at a per 1000 Living Population to | Estimated Persons Population to an interest Population Populat | Perfuncted Persons Population London Lon | Estimated Persons Population Persons Population Persons Population Persons Population Persons Population Persons Persons | Estimated Persons Population Coan Persons Population Persons P | Extimated Persons Population to an array Population Population | Estimated Persons Population to an at the parameter Population to an at the persons Population to | Extinated Persons Population to an to | Definition to an incident control of the control | Department of Section 1984 Department of | Estimated Persons Population Populatio | Estimated Persons Persons Population Persons Population Persons Population Persons Population Persons Pe | Perfuncted Persons Condition to am Persons Per | Perfuncted Persons Perfunction Perfunction Performance Performance Performance Performance Performance Performance Performance Performance Persons Performance Perfo | Parlmated Persons Parlmated Persons Parlmated Persons Population to an Persons Populat | Perimeted Persons Pe |

Out of the whole number of cities and boroughs, fourteen had lower birth-rates and nineteen lower death-rates than Birkenhead. The birth-rate of the gross population of the great cities and boroughs was 0.5 per 1000 living higher, and the death-rate 0.3 per 1000 living higher, than the corresponding rates in Birkenhead. The population of Birkenhead it will be noted is greater than eight on the list of great towns, and the density of population (persons per acre) is greater than in nineteen towns in the list.

The birth-rate of the 33 towns in 1894, (30.7) is exceptionally low, being even less than last year, (32.9), the average rate in the preceding nine years having been 33.9. The death-rate of the 33 towns in 1894 (18.1) is much lower than last year (21.6), the average rate in the preceding nine years having been 21.5.

In my last year's report I had a table, shewing the population of Birkenhead as corrected from the complete census returns, and the number of births and deaths in past years since the incorporation of the Borough, and also the birth and death-rates deducible from these figures; this is repeated, together with the figures for this year.

| | Estimated | BII | THS. | DE | THS. |
|------|-------------------------------|---------------------|-------------------------------------|---------------------|-------------------------------------|
| Year | Population at Midsummer | Number of Births | Birth rate per 1000 per annum | Number of Deaths | Death rate per 1000 per annum |
| 1878 | 77260 | 2932 | 37-94 | 1656 | 21.43 |
| 1879 | 79642 | 3112 | 39.07 | 1631 | 20.47 |
| 1880 | 82023 | 3048 | 37.16 | 1624 | 19.79 |
| 1881 | 84404 | 3059 | 36.24 | 1462 | 17:32 |
| 1882 | 85993 | 3156 | 36.70 | 1742 | 20.25 |
| 1883 | 87582 | 3145 | 35-90 | 1770 | 20.20 |
| 1884 | 89171 | 3459 | 38.79 | 1769 | 19.83 |
| 1885 | 90760 | 3224 | 35.2 | 1816 | 20.00 |
| 1886 | 92349 | 3218 | 34.84 | 1808 | 19.57 |
| 1887 | 93938 | 3161 | 33.64 | 2053 | 21.85 |
| 1888 | 95527 | 3082 | 32:26 | 1788 | 18.71 |
| 1889 | 97116 | 3207 | 33.02 | 1830 | 18.84 |
| 1890 | 98705 | 3302 | 33.45 | 2084 | 21.11 |
| 1891 | 100294 | 3286 | 32.76 | 2100 | 20.93 |
| 1892 | 102038 | 3341 | 32.74 | 1967 | 19:27 |
| 1893 | 103817 | 3431 - | 33'04 | 2132 | 20.53 |
| 1894 | 105627 | 3246 | 30.73 | 1915 | 18.12 |

Tabular Statements.—In the appendix to this report are tabular statements of the year's mortality, within the Borough, classified according to the diseases, ages and localities, a weekly register of deaths, and of meteorological results, a monthly summary of deaths from all causes and zymotic diseases, with the rates per 1,000 per annum, together with a table specifying the occupation, or "description" of each person whose death was entered during the year, a return of deaths in the Birkenhead Union Hospital and Workhouse, and a sketch map of the town showing the boundaries of the wards, &c.

Table I. shows the deaths registered in the whole Borough during 1894, arranged with reference to the age at which death occurred in each case. They are disposed in four sub-tables—the deaths in the townships of Birkenhead and Claughton in the first, deaths in Tranmere (exclusive of the Union premises) and Oxton in the second, the deaths in the incorporated portion of Higher Bebington in the third, and the deaths in the Union Hospital and Workhouse in the fourth. The deaths of infants are entered up in three columns, those under one year, those of one year and under two years, and those turned two years and under five. Then follow the deaths of children and young persons, those turned five years and under twenty; and of adults, those turned twenty and under forty and those turned forty and under sixty. In the last two columns are the deaths of old people, those turned sixty and under eighty, and those of eighty and upwards. Reference to this table will show that, of the gross local mortality for 1894, the deaths of infants under one year of age accounted for 461, those over one year but under five years of age for 339, children and young persons for 121, adults 577, old people over sixty years of age 417. In the Townships of Birkenhead and Claughton, 306 deaths occurred among infants, 239 in children under five, 83 among children and young persons, 360 among adults, and 215 among old persons. In Tranmere and Oxton the number of deaths of infants under one year was 144, of those under five and over one year was 96, of children and young persons 31, of adults 141, and of old people 124.

In Bebington Ward there were 3 deaths of infants under one year, 2 over one and under five years, 6 of children and young persons, 7 of adults and 11 of old people.

The relative proportion of deaths, in 1894, among the infants, children and young persons, adults and old people, to the whole number of deaths, in certain sub-divisions of the Borough, in the premises controlled by the Guardians of the Poor, and in the entire incorporated area, is readily shown in tabular form, thus:—

| Percentage of Deaths at Certain | With the last | Age b | elow | | 60 |
|---------------------------------|-----------------------------|----------------------------|---------------------------|------------------------------|------------------------------|
| Ages to Total Deaths | 1 | 2-5 | 20 | 60 | upwards upwards |
| Birkenhead and Claughton | 25°4 26°8 10°3 5°4 | 19.8 17.9 2.8 1.3 | 6'8 5'7 20'6 0'6 | 29·9 26·3 24·1 46·9 | 17.8 23.1 37.9 45.5 |
| Birkenhead Borough | 24.07 | 17.7 | 6.3 | 30.1 | 21.7 |

In this respect the local mortality compares favourably with the mortality in most great cities and boroughs. The local mortality for 1894 also compares favourably with the local mortality during the decade 1881-93. The percentages taken out for Bebington have little significance, the number of deaths being so small.

The proportion of deaths of infants under one year to the births registered.—The proportion in Birkenhead Borough in 1894 was equal to 142 per 1,000, which is a lower ratio than any yet recorded. In 1893 the proportion was unprecedentedly high, viz.:—197 per 1000. In 1892 it was equal to 168 per 1,000, in 1891 the proportion was 148 per 1,000, in 1890, 166, and in 1889 the proportion was 169. In the 33 great cities and boroughs in England and Wales, amongst which Birkenhead is classed, the proportion of deaths under one year to births registered, in 1894 was 152. It varied greatly in the different towns, ranging from 121 in Croydon to 217 in Preston.

Table II. is the weekly register of deaths in the Borough of Birkenhead for 1894. The deaths are entered as in Table I. into four sub-tables, representing Birkenhead and Claughton, Tranmere and Oxton, Bebington, and the Union Hospital and Workhouse. Table III. is a summary of the weekly register of deaths. Table

IV. is a Weekly Condensed Register of meteorological results. Table V. is a Lunar Monthly Table of deaths from all causes and Zymotic Diseases, with the rates per 1,000 per annum. Table VI. a street register of deaths. And Table VII. a register giving the description of those who died.

Illegitimacy.—It seemed desirable last year to introduce into the report the statistics relating to illegitimacy, not merely on account of the bearing which such a subject has upon the social life of the community, but also with a view ultimately of showing to some extent the influence which illegitimacy exerts upon the "chances of life" of infants, as it is well known that the death-rate of illegitimate children is considerably greater than that of those born in wedlock. I have thought it desirable to continue these statistics in this report as the subject is one of some importance.

The following table gives the total number of legitimate and illegitimate births, with the rates per 1,000 of births and per 1,000 living, and statistics relative to the deaths of such children under one year of age.

Illegitimate Birth and Death Rates, 1894.

| Registrar's | Estimated | BIR | THS | | TIMATE | Total deaths of children | Deaths of Illegitimate | Proportion of Illegiti- mate deaths |
|---|--------------------|-----------------|-------------------|-------------------|--------------------|-----------------------------|--------------------------------------|---|
| Sub-District | Population 1894 | Legit- imate | Illegit- imate | to 1000 living | ito 1000 births | under one year of age | children under one year of age | to total deaths under one year of age. |
| Birkenhead | 61656 | 2008 | 62 | 1.00 | 30.87 | 302 | 33 | 13.7 |
| Tranmere, Oxton and Claughton Bebington | 40850 3121 | 1064 26 | 50 | 1.22 | 46.99 | 148 3 | 8 | 56.5 |
| Total | 105627 | 3098 | 112 | 1.06 | 36.15 | 453 | 41 | 11.0 |

It will be seen from the above that for every 1,000 legitimate births registered during the year, 136.2 deaths of legitimate children under one year of age took place, whilst for every 1,000 illegitimate births registered during the same period no less than 366.0 deaths of illegitimate children under one year of age took place. In other

words more than 36 per cent. of the illegitimate children born, die within the first year of life. These numbers are certainly better than those for last year, but are very far from satisfactory.

Vaccination.—Mr. John Carter, Clerk to the Board of Guardians of the Birkenhead Poor Law Union, has kindly supplied me with the following latest completed information relative to vaccination in the District, viz.:—

Returns as to the vaccination of children born during the year from 1st July, 1893, to 30th June, 1894.

| Births | Successfully Vaccinated | Insus- ceptable | Had Small- pox | Unvac- | Postponed by Medical Certificate | Removed to Districts the Vaccin ation Officers of which were duly notified | places unknown or which can- not be | In Abeyance |
|--------|----------------------------|--------------------|----------------------|--------|---|---|--|----------------|
| 3317 | 2860 | 13 | | 332 | 48 | 15 | 49 | |

The percentage of children successfully vaccinated out of the total number of births was therefore 86.22, as compared with 83.89 last year.

The number of deaths of unvaccinated children, viz., 332, gives a percentage of 10.00, as compared with 11.57 last year.

Pauperism.—The latest information obtainable is for the year Michaelmas, 1893, to Michaelmas, 1894, the cost of relief during this period was as follows, viz:—

| In maintenance in year ended Michaelmas, | £ | S. | d. |
|--|-------|----|----|
| 1894, was | 6876 | 6 | 8 |
| Out-door relief (including non- resident and boarded-out paupers) | | | |
| Total£ | 14962 | 16 | 11 |

The lowest number of In-door poor in any week during 1894 was 728, and the highest number 839.

The lowest number of Out-door poor in any week during 1894 was 1,649, and the highest number 7,742.

Marriages.—The number of marriages in the Borough during the year 1894 was 828, giving an annual rate per 1,000 living of 7.83, as compared with 5.72 for 1893, a very low rate.

Meteorological Results.

By way of introduction to the remarks it is proposed to make on the noteworthy features of the meteorology of the year, the following tabular statement is submitted of the mean temperature and atmospheric pressure, and the amount of rainfall in each month of 1894. It has kindly been prepared by W. E. Plummer, Esq. M.A. F.R.A.S., Director of the Liverpool Observatory, Bidston Hill, who also furnishes particulars weekly of the daily observations taken under his directions, from which Table IV. in the appendix is compiled.

| | 1894 | | Mean Tempera- ture | Mean Barometer | Rainfall on ground |
|-----------|------|----|--------------------------|-------------------|-----------------------|
| | | | 0 | Inches | Inches |
| January | | | 39-1 | 29.768 | 1.694 |
| February | | | 42.5 | 29*924 | 3.177 |
| March | | | 45.5 | 29.911 | 1.558 |
| April | | ** | 50.5 | 29.845 | 1.596 |
| May | | | 49.1 | 29-955 | 2.475 |
| June | | | 57-7 | 29-990 | 1-958 |
| July | | | 60.9 | 29.862 | 3.284 |
| August | | | 58.0 | 29.892 | 3.065 |
| September | | | 54.1 | 30.188 | 0.916 |
| October | | | 49-7 | 29.906 | 3*988 |
| November | | | 47.3 | 29.891 | 1.989 |
| December | | ** | 43.0 | 29:965 | 2.215 |

The meteorological results show as follows:-

Barometer.—The mean barometer of 1894 (29.925 inches) was lower than in recent years. The monthly mean was high in September, June, May and December. It was low in January. The highest reading during the year was on December 27th, when 30.671 was reached, on the 3rd January 30.639 was reached. The lowest barometer touched was 28.903 on October 25th.

Temperature.—The mean temperature in 1894 was 50·1 degrees F., or somewhat lower than the means of recent years, and the mean yearly temperature in the locality. The severest weather was experienced in the first quarter and last month of the year.

There was freezing, more or less on seven days in January, four days in February, and four days in December. The lowest temperature reached at any time during 1894 was 12.6 degrees F. on January 5th. The highest temperature reached was 81.0 degrees F. on July 1st.

Rainfall.—The Rainfall in 1894 (27.912 inches) was considerably greater than last year and slightly above the average. The rainfall in 1892 (32.856-inches) was in excess of the average fall in the locality, and greater than the rainfall of the previous year. A rainfall of 27 inches was recorded in 1889 and 1890; in 1888 but 24 inches of rain fell, and in 1887 under 21 inches—a smaller rainfall than any recorded since there has been an Observatory at Bidston. The number of hours at which rain fell during the year was 648.6, it was 538.1 last year, and 733 in 1892, which was higher than the yearly average. The heaviest fall on any single day was on October 20th (1.046 inches.)

Wind.—The wind force in 1894 was at the rate of 17.2 miles an hour, which is about that of the local average. The most rapid motion of air during any single hour of the year was on December 29th—on this day the rate of wind per hour was from 40 miles to 75 miles. The rate for the whole twenty-four hours of the day was 1,378 miles, giving a mean hourly motion of air of 57.4 miles. There were only two hours in the year in which there was no wind—these calm hours occurred on July 9th and August 31st, one hour on each day—there were eight calm hours in 1892. In 1894 55.37 per cent. of the winds were westerly, including due south, a percentage somewhat below the average.

Humidity of the air.—The mean difference between the wet and dry bulb of the thermometer in 1894 was less than in the last year, and the average.

Cloud.—The proportion of cloud to clear sky is estimated twice daily. In 1894, the proportion was 66.8 per cent. This is a lower per centage than the mean proportion.

This year's meteorology naturally introduces the next subject to be considered, the distribution of the mortality over the four quarters, as the relative mortality of different portions of the year must necessarily be affected by the atmospheric conditions which have marked its progress. Of the sum of the deaths registered in Birkenhead and Claughton 353 were entered to the first quarter, 302 to the second, 306 to the third, and 242 to the fourth; of the sum of the deaths in Tranmere and Oxton, 164 appear in the first quarter, 134 in the second, 104 in the third, and 134 in the fourth. In Bebington the numbers of deaths registered in the four quarters were respectively 6, 5, 11, 7; and in the Union Hospital and Workhouse the numbers were 51, 39, 27 and 30. Expressed in death rates per 1,000 living, the mortality of the whole Borough, in 1894, was 21.7 in the first quarter, 18.1 in the second quarter, 16.9 in the third quarter and 15.6 in the fourth quarter. The mortality of the first quarter is thus shown to be high. The death-rate for the remainder of the year is a little below the mean.

The Classification of Death Causes.—The causes of death, as they appear in Tables I. and II. in the appendix, are systematically classified according to the principles laid down by the late Dr. W. Farr, the nosology being that adopted by the Registrar-General until within the last few years, which experience has shown to be well suited for statistical purposes. The death-causes are arranged under classes and orders, the latter corresponding to the families of Natural History. Genera, or what in diseases would be called varieties, are not distinguished. All death-causes are thus conveniently classified under 116 heads, some of which, however, include diseases very distinct from one another.

At the beginning of Table I. are the totals of deaths from all causes, and on the next line the totals of deaths from specified causes. The deaths which it is necessary to refer to unspecified causes are not only those ascribed, in legal phraseology, to "visitation of God" or "natural causes," but also those which, with almost equal vagueness, are classified as due to "tumour,"

'coma," &c. The deaths from specified causes are then divided into five classes. Class I. (the zymotic) embraces all diseases, either epidemic, endemic, or contagious, which are induced by some specific body, or by want of or by the bad quality of food. The diseases coming under Class II. (constitutional or cachectic) appear to be due to a bad habit of body, and are sometimes hereditary. Class III. takes in diseases the effects of which are manifest in disturbing or obliterating the function of particular organs or systems. Class IV. includes the conditions tending to produce death, which are the incidental results of the formative, reproductive, and nutritive processes. Class V. groups together all deaths which are the evident and direct result of physical or chemical forces.

Of the 1,915 deaths registered in the Borough during 1894, 1,885 were ascribed to specified causes; that is to say 340 to zymotic diseases, 303 to constitutional diseases, 888 to local diseases, 301 to developmental diseases, and 53 to violence. The proportion of deaths from zymotic diseases to the whole number of deaths was thus 17.7 per cent. The proportion which deaths ascribed to zymotic diseases bear to deaths from all causes is, however, a matter of no great significance, as of course the general death-rate varies considerably from year to year; and any increase in the fatality of non-zymotic diseases, such as phthisis or pneumonia (which are closely allied to zymotic diseases) makes the proportion of deaths from zymotic diseases compare more favourably.

An accurate estimate of the relative mortality from zymotic diseases, and from the other four classes of death-causes just referred to, can only be made by taking out the death-rate per 1,000 living, as respects each of the five classes. This has been done, and the results are displayed in the following table. Parallel with the column containing the death-rates for 1894 are the corresponding corrected death-rates for 1893, 1892, 1891, 1890, and the mean of the corresponding corrected death-rates in the ten years 1881-90.

| | Annual Death-rate per 1000 Living | | | | | | | | | | |
|---|--------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|--|--|--|--|--|
| CLASSES | 1881-90 Average | 1890 | 1891 | 1892 | 1893 | 1894 | | | | | |
| Zymotic Diseases Constitutional Diseases Local Diseases Developmental Diseases Violent Deaths | 3·11 2·75 9·63 3·16 0·82 | 3°35 3°42 10°20 3°38 0°58 | 2.63 3.07 11.04 3.17 0.98 | 3.05 2.25 9.53 3.40 0.07 | 3-73 2-38 10-01 3-50 0-63 | 3:21 2:86 8:40 2:84 0:50 | | | | | |

This table shows that the death-rate as regards constitutional diseases in 1894 were slightly higher than the corrected mean rates. The zymotic death-rate was slightly above the mean. The death-rate as regards devolopmental diseases was much lower than the mean rate. The proportion of deaths due to violence was below the mean.

Zymotic Diseases.—The deaths from zymotic diseases include 284 by what have been termed the chief zymotics (certain diseases belonging to the miasmatic order), viz: smallpox 1, measles 94, scarlatina 10, diphtheria 38, whooping cough 66, fevers 18, and diarrhœa 57. The remaining 56 were entered to what have been called minor zymotics (diseases less prevalent, less fatal, or less obviously zymotic in character), viz: influenza 6, croup 8, quinsy 1, syphilis 14, erysipelas 6, rickets 1, alcoholism 4, puerperal fever 7, dysentery 3, hydrophobia 1, thrush 1, privation 1, and others 3. The mortality from the chief zymotics in 1894 was equal to a death-rate of 2.68 per 1,000 living.

The death-rates in respect of the principal and other zymotics during 1894 are given in the next table. Corresponding corrected rates for 1890, 1891, 1892, 1893, and the average of corrected rates for the ten years 1881-90, having been taken out for comparison.

| Zymotic Diseases | Annual Death-rate per 1000 Living. | | | | | | | | | | | |
|---------------------|---------------------------------------|--------------|------|----------------|-------|-------|--|--|--|--|--|--|
| ZYMOTIC DISEASES | 1881-90 Average | 1890 | 1891 | 1892 | 1893 | 1894 | | | | | | |
| Chicken Pox | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 | 0.000 | | | | | | |
| Smallpox Measles | 0.016 | 0.00 | 0.00 | 0.009 | 0.009 | 0.880 | | | | | | |
| Scarlatina | 0.09 | 0.11 | 0.02 | 0.079 | 0.112 | 0.094 | | | | | | |
| Diphtheria | 0.48 | 0.38 | 0.30 | 0.058 | 0.655 | 0.624 | | | | | | |
| Fevers | 0.31 | 0.44 | 0.46 | 0.053 | 0.260 | 0.170 | | | | | | |
| Other Zymotics | 0.63 | 0.41 0.63 | 0 35 | 0°056 0°091 | 0.539 | 0.530 | | | | | | |

This table shows that in 1894, the mortality of all the principal zymotic diseases was below the average, except diphtheria, measles, and whooping cough. The fatality from scarlatina and diarrhœa is low. On the other hand the mortality from measles is very high, and from fevers much below the mean rate. The mortality from the diseases grouped together as "other zymotics" is also low.

Prevalence of Sickness during 1894.

Small-pox.—Twelve cases of small-pox occurred in the Borough during 1894. Of these, one case occurred in March, one in April, two in June, one in July, one in August, one in October, four in November, and one case in December. In every case, but one, the patients were removed to the Infectious Diseases Hospital and isolated within a few hours of their notification, and thus what might have proved a dangerous epidemic was effectually stopped at its commencement. Only one death occurred from this disease.

Chicken-pox.—There was no death registered from this disease during the year.

Measles.—There were 1,818 cases of measles reported during the year 1894, which is a larger number than has occurred in any year since notification has been in force. The epidemic commenced in 1893, and in January there was 320 new cases; in February 448 cases; in March 512 cases; and then the disease gradually died out by the end of July.

There were 94 deaths certified directly as due to this disease, and no doubt others occurred which were not primarily attributed to measles; yet as I have remarked each year, there are persons who go about openly advocating the exposure of children to the chance of infection, on the ground that all children must have it and the sooner they get it the better.

German Measles.—There were sixteen cases of German measles reported during the year, but no deaths from this disease.

Scarlatina—was prevalent during the whole year, 379 cases being notified during the twelve months, or some 42 fewer cases than occurred in 1893. The greatest number reported during any one month was in November, when 48 cases occurred. The disease was not confined to any one quarter of the town, but pretty evenly distributed over the whole Borough. The number of deaths—10, was very low in proportion to the number of cases reported.

Diphtheria.—One hundred and thirty-three cases of diphtheria were reported during the year, a larger number than in any year since compulsory notification came into force. Of these no less than 38 died, a mortality of 28.5 per cent, or nearly 8 per cent higher than last year, and of these thirty-eight who died, thirty-five were under five years of age at the time of death.

Croup.—There were also eight deaths attributed to croup.
All of these being in children under five years of age.

Fevers.—The number of cases of fever notified in 1894 was considerably less than that of the previous year, viz:—25 as compared with 35 in 1893—of these 18 were ascribed to typhoid fever, and 7 to Puerperal Septicæmia.

Typhus Fever.—Of the seven cases notified to the Sanitary Authority, all were immediately removed to the Infectious Diseases Hospital and isolated, every care being taken to stop the spread of the disease. Fortunately none of them succumbed to the disease.

Typhoid Fever.—As previously stated there were 194 cases of Typhoid Fever notified during 1894, this disease being practically never absent from the town. The number of cases this year being much less than the number recorded in 1893, viz:—221. The number of deaths, 18, was proportionately very low, and less than the number recorded in any year during the past seven years.

Diarrhœa.—The year has been marked by a considerable decrease in the number of deaths from Summer Diarrhœa, only 57 deaths

being attributed to this cause, as compared with 171 last year. Of the deaths 45 were of children under two years of age.

Influenza.—This is not one of the diseases notifiable under the Local Act, and consequently we have no direct means of knowing to what extent it prevailed in the district. There were, however, 6 deaths directly attributed to this cause, being fifteen less than those of last year, but a much smaller number than occurred in 1891, when 48 deaths were recorded. Of the deaths occurring in 1894, three were males and three were females.

Whooping Cough.—This also is not one of the notifiable diseases, and consequently we have here also no record of the number of cases occurring. There were, however, no less than 66 deaths registered under this head, being 2 less than last year.

Cholera.—No case of Cholera was known to the Sanitary Authority as having occurred in the district during 1894.

Notification of Cases of Dangerous Infectious Diseases — The 75th section of the Birkenhead Corporation Act, 1881, which requires householders and medical men in attendance to notify cases of dangerous infectious diseases to the Sanitary Authority, gives facilities for supplementing the statement of the mortality from zymotic diseases with a statement of cases of sickness due to some of the chief zymotic diseases, month by month, as they were The diseases the Authority understand by the term "dangerous infectious diseases," are smallpox, measles, German measles, scarlatina, diphtheria, membranous croup, fevers, (typhus, typhoid, continued, relapsing, and puerperal septicæmia), and cholera. The cases notified appear in the following return. Of the whole number 2,584 were notified by duly qualified medical practitioners; 20 were notified by school attendance officers, such notifications being subsequently verified by the occupiers; 19 cases were notified by the occupier only; and two cases were notified by the registrar—of course after death. This may be assumed to represent proximately the extent of the failure of compulsory notification. In 1892 and 1893 there were two cases each year, and in 1891 there were four cases not notified till after death. In 1890 there were five cases, and in 1889 only one case was not notified till after death.

The following Table gives the number of Notifications of Dangerous Infectious Diseases in each month of the year.—

| 1894 | Smallpox | Measles | German | Scarlatina | Diphtheria | Typhus Fever | Typhoid | Fever | Cholera | TOTAL |
|--|----------|---|-----------------|---|---|--|--|-----------|---------|---|
| January February March April May June July August September October November | | 320 448 512 207 107 85 56 7 4 5 6 | 3 7 4 | 49 23 24 15 9 22 33 30 45 39 48 | 14 15 8 5 3 15 10 8 23 15 6 | ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· | 11 11 12 15 20 21 18 13 12 10 26 | 1 1 1 1 2 | :: | 399 505 561 243 201 147 120 59 87 70 91 |
| December | 1 12 | 1818 | 16 | 379 | 11 133 | 7 | 25 | 6 | | 2565 |

and the next Table the number of cases of the different diseases notified in each year since 1882 when compulsory notification came into force.

The statement is as follows:-

| Year | Smallpox | Measles | German | Scarlatina | Diphtheria | Typhus Fever | Typhoid | Fever | Cholera | TOTAL |
|------|----------|---------|--------|------------|------------|-----------------|---------|-------------|---------|-------|
| 1882 | | 615 | | 152 | 9 | 99 | 86 | 25 | 1 | 987 |
| 1883 | 3 | 548 | | 169 | 19 | 42 | 76 | 17 | | 874 |
| 1884 | 131 | 941 | | 277 | 13 | 17 | 74 | 9 | i | 1463 |
| 1885 | 24 | 1001 | | 556 | 21 | 1 | 38 | 2 | | 1643 |
| 1886 | 6 | 595 | 10 | 617 | 24 | 18 | 58 | 9 2 4 4 2 1 | | 1332 |
| 1887 | | 1334 | 12 | 914 | 21 | 8 | 142 | 4 | | 2435 |
| 1888 | | 819 | 4 | 438 | 36 | 13 | 234 | 2 | | 1546 |
| 1889 | | 1057 | 13 | 262 | 30 | | 191 | 1 | | 155 |
| 1890 | | 1620 | 17 | 247 | 35 | 64 | 182 | 1 2 4 | | 2160 |
| 1891 | | 524 | 38 | 180 | 28 | 38 | 197 | 2 | | 1007 |
| 1892 | 12 | 1542 | 5 | 218 | 25 | 10 | 150 | 4 | | 1966 |
| 1893 | 15 | 540 | 11 | 421 | 77 | 4 | 221 | 9 | | 1298 |
| 1894 | 12 | 1818 | 16 | 379 | 133 | 7 | 194 | _6_ | | 2568 |
| | 203 | 12954 | 126 | 4830 | 471 | 321 | 1843 | 86 | 2 | 20836 |

Constitutional, Local, and Developmental Diseases.—Having given the death-rates in Birkenhead in respect of the five classes into which death-causes have been divided, and the principal and other zymotics, a table is now submitted showing the death-rates in the Borough as respects the orders under which the death causes belonging to Classes II., III., and IV. have been grouped. Parallel with the columns containing the rates of 1894, are the corresponding death-rates for 1893, 1892 and 1891, the corrected death-rate for 1890, and the mean of the corresponding corrected death-rates in the ten years of 1881-90.

| Constitutional, Local, and | | | nnual De per 1000 | | | |
|---|--------------------|------|----------------------|------|------|------|
| DEVELOPMENTAL DISEASES. | 1881-90 Average | 1890 | 1891 | 1892 | 1893 | 1894 |
| Diathetic Diseases Tubercular Diseases | 0.63 | 0.85 | 0.58 | 0.58 | 0·59 | 0·86 |
| | 2.11 | 2.56 | 2.49 | 1.66 | 1·79 | 2·57 |
| Diseases of Nervous System Organs of Circulation Respiratory Organs Digestive Organs Urinary Organs Organs of Generation Organs of Locomotion Integumentary System | 2:81 | 3·06 | 3·00 | 2.66 | 2.64 | 2:31 |
| | 1:21 | 1·20 | 1·29 | 1.07 | 1.35 | 1:22 |
| | 3:91 | 4·52 | 5·32 | 4.07 | 3.90 | 3:31 |
| | 1:08 | 0·97 | 1·00 | 1.13 | 1.44 | 0:98 |
| | 0:41 | 0·29 | 0·27 | 0.37 | 0.44 | 0:42 |
| | 0:01 | 0·00 | 0·01 | 0.15 | 0.10 | 0:00 |
| | 0:05 | 0·07 | 0·08 | 0.00 | 0.01 | 0:00 |
| | 0:08 | 0·06 | 0·06 | 0.03 | 0.09 | 0:09 |
| Developmental Diseases of Children ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 0.80 | 0.80 | 0.73 | 1.03 | 1.06 | 0.62 |
| | 0.15 | 0.13 | 0.18 | 0.00 | 0.10 | 0.05 |
| | 0.84 | 1.18 | 1.07 | 1.20 | 1.26 | 1.21 |
| | 1.36 | 1.26 | 1.18 | 1.16 | 1.06 | 0.95 |

The two orders under which constitutional diseases are arranged have little in common, except that in typical diseases in each order new morbid products are deposited. Diathetic diseases account for 91 deaths, of which 43 were due to cancer, 9 to rheumatism, 10 to anæmia, 6 to mortification, 5 to dropsy, and 18 were ascribed to tumour. All but 10 out of the 91 were deaths of adults. Tubercular diseases account for 212 deaths; of which 191 were due to phthisis pulmonalis, 2 to hydrocephalus, 17 to tabes mesenterica, 1 to scrofula, and 1 to hæmoptysis. One hundred and sixty-two of the deaths in this order were of children and young persons. The diathetic disease death-rate of 1894 is almost

the same as in 1890, and a little above the local mean rate; and the tubercular disease death-rate of 1894 is higher than that for the four preceding years, and one-fourth higher than the local mean rate.

Of the eight orders under which local diseases have been arranged, the first four account for an overwhelming proportion The deaths from diseases of the mortality referred to this class. of the brain and nervous system in 1894 were 245; the deaths from diseases of the heart and blood vessels were 129; the deaths from diseases of the respiratory organs were 353; and the deaths from diseases of the digestive organs were 104. The deaths entered to diseases under the remaining four orders were 57. Of the 888 deaths from local diseases, 320 were of infants under five years of age, and 46 were of children and young persons over five years and under twenty. It will be seen that the death-rate as regards diseases of respiratory organs in 1894 was less than during the last four years, and about that of the mean rate. The death-rates as regards diseases of the nervous system and diseases of the organs of circulation in 1894 were also about the mean rates. The deathrates in respect of diseases of the digestive and urinary organs in 1894 were also about the mean rates.

Of the deaths caused in Class IV., 66 were ascribed to so-called developmental diseases of children, i.e. premature birth, malformations, and teething; 128 to old age; and 101 to diseases of nutrition, that is, atrophy, debility and marasmus. The death-rates for 1894 in this class do not compare unfavourably with the corresponding local mean rates. The number of deaths ascribed to old age is considerably more than the average, and the number ascribed to the diseases of nutrition is slightly below the average. There is some reason to believe that the number of deaths due to childbirth is understated year by year; many deaths in childbed being certified to secondary causes, "peritonitis," "convulsions," &c.

Inquests.—The number of inquests held during 1894 was 146, thus 7 per cent. of the sum of the deaths in the Borough formed

the subjects of official enquiries. Of these inquests 119 were in the township of Birkenhead, 20 were in Tranmere, 4 in Claughton, 1 in Oxton, 1 in Bebington, and 1 was held in the Workhouse; 90 were on the bodies of males, and 56 were on the bodies of females. In 1893 the number of inquests was 171, in 1892—188, in 1891—156, in 1890—120, and in 1889 the number was 134. Out of the 146 inquests held, in 35 cases, or no less than 24.6 per cent., it does not appear that the actual cause of death was ascertained at all. Thus it is stated as follows:—

| Found dead in bed | | | | 10 |
|------------------------|---------|------|------|----|
| Natural causes | | | | 5 |
| Found dead · | | | | 2 |
| By the visitation of (| Fod | | | 2 |
| Nature of disease un | ascerta | ined | | 7 |
| Accidental death | | | | 2 |
| Found drowned (w | | | | |
| water before o | | | | _ |
| stated) | | | | 7 |

As I remarked last year, one fails to see what benefit is obtained from inquests which arrive at such indefinite conclusions.

Deaths not certified —Not all the death-causes which are classified represent diseases or symptoms observed and certified by medical men in attendance during the last illness, or verdicts following official investigation. A significant proportion of the death-causes are entered in the register on the doubtful testimony of deceased persons' relatives, or friends, or fellow lodgers. The registrars have, therefore, been required to mark in the returns furnished, every death not certified by a registered practitioner, or made the subject of a coroner's inquest. In 1894, out of the 1,915 deaths registered, 10 (4 males and 6 females) were marked "not certified,"—that is 0.52 per cent. Eight of these uncertified deaths took place in the Township of Birkenhead, and two in Tranmere. With two exceptions all were of infants under one year of age. It is a great defect of our present law that such deaths should be allowed to be registered without an official enquiry into

their cause. It is a very significant fact that in eight cases they were deaths of infants. The causes of the 10 deaths were entered in accordance with the statements of persons giving information to the registrars as follows:—

3 to convulsions
2 to debility
1 to bronchitis
1 to jaundice
1 to premature birth
1 to teething, and
1 to old age

The proportion of uncertified deaths to the sum of the deaths was, as already stated, 0.52 per cent. as compared with 1.12 per cent. in 1893, 0.45 per cent. in 1892, under 0.09 per cent. in 1891, 1.1 per cent. in 1890, and 1.4 per cent in 1889; the mean proportion during the ten years 1879—88 was 2.6 per cent. The proportion of uncertified deaths is therefore decreasing, which is most satisfactory.

Deaths classified according to localities.—Tables I., II., III., IV., and V., in the appendix, having been fully discussed, are followed by Table VI., in which the deaths registered during 1894, are classified according to the localities in which they occurred. The Street Register is divided into three parts—the part marked "A" including the streets and places in the old Birkenhead Improvement District; the part marked "B" the streets and places in Tranmere and Oxton; and the part marked "C" the streets and the places in the incorporated portion of Bebington. Opposite each street or place is the number of deaths, from all causes and from zymotic diseases, registered as occurring in that street or place during the year. In the headings to the different parts of this table (and in Tables I., II., and III.) the names of townships are not placed as indicating the locality referred to, but the names of wards. Thus the old Improvement District appears as Cleveland, Claughton, Grange, and Argyle Wards; Tranmere and Oxton appear as Oxton, Egerton, Clifton, and Mersey Wards; and the portion of Bebington incorporated appears as Bebington

Ward. As it was felt that particulars of the number of deaths from all causes, zymotic diseases, and causes not certified, in each ward, would prove interesting, and as the Street Register does not afford this information, the table here submitted has been drawn up.

| 1894 | | fr | aths om Causes | Zyn | s from notic cases | Deaths from Causes Uncertified | | |
|---|----|-----------------------------|-----------------------------|--------------------------|--------------------------|--------------------------------------|-----|--|
| | | м. | F. | м. | F. | м. | F. | |
| Cleveland Ward Claughton ,, Grange ,, Argyle ,, | | 211 15 231 160 | 174 15 241 156 | 34 1 40 30 | 37 3 43 39 | 1 2 1 | 2 2 | |
| Oxton ,, Egerton ,, Clifton ,, Mersey ,, Bebington ,, | :: | 14 78 120 54 13 | 19 71 123 57 16 | 2 14 20 12 2 | 25 17 14 2 | :: | 2 | |

This table will, with the Street Register, furnish all the information that can be required on the subject. It is well to note that the streets opposite which the highest death totals appear, are not the streets in which the mortality was really the highest. In 1894, as in past years, the sickness and mortality were most prevalent in the smaller streets and alleys inhabited by the very poor.

The following table shows the relative mortality of the wards during 1894.

| | 1894 | | | | Estimated Population at Midsummer | General Death-rate per 1000 Living | Zymotic Death-rate per 1000 Living |
|-------------------------|----------------|--------|-----------------|----|--|---|---|
| Cleveland | Ward | | | | 18349 | 20.98 | 3.86 |
| Claughton | ** | | | | 3713 | 8.07 | 1.07 |
| Grange | " | | | | 26821 | 17:59 | 3.09 |
| Argyle | " | | | | 16486 | 19.16 | 4.18 |
| Oxton | " | | | | 4684 | 7.04 | 0.42 |
| Egerton | " | | | | 10565 | 14.10 | 3.69 |
| Clifton | ** | | | | 15963 | 15.22 | 2.31 |
| Mersey | ,, | | | | 5925 | 18.73 | 4.38 |
| Bebington | " | | | | 3121 | 9.27 | 1.28 |
| Birkenhead deaths in | Borou Union | igh in | neludi mises | ng | 105627 | 18.12 | 3.21 |

The deaths in the Borough Hospital, instead of being entered as occurring in Cleveland Ward, have been referred to the Wards

from which the patients who died were received. Similarly, the deaths in the Wirral Children's Hospital and Lying-in-Hospital, have not been entered to Grange Ward and Argyle Ward respectively, but as occurring in the Wards from which the patients who died were received. It will be seen that the Ward showing the highest zymotic death-rate in 1894, was Mersey Ward. The highest death-rate was in Cleveland Ward, and that all the three wards in the township of Birkenhead show a high death-rate compared with the wards in the remainder of the Borough.

Relative Fatality of Chief Zymotic Diseases.

The following table shows at a glance the relative fatality of the chief zymotic diseases for each year since the incorporation of the Borough.

| | D | eath | s fro | m Z | ymot | ie D | iseas | es. | | No. | Death | rate p | er 1000 | living. | P | |
|--|----------------------|--|---|--|---|---|---|--|---|--|--|--|--|--|--|--|
| Year | Smallpox | Measles | Scarlatina | Diphtheria | Whooping | Typhus Fever | Typhoid | Diarrhœa | Smallpox | Measles | Scarlatina | Diphtheria | Whooping | Typhus Fever | Typhoid | Diarrhœa |
| 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887 1888 1889 | | 72 23 15 49 34 40 40 78 22 81 15 61 | 28 125 74 20 17 23 27 29 40 89 34 13 | 14 19 11 5 3 2 8 14 15 10 7 8 | 90 14 69 45 89 31 9 66 18 31 23 93 | 18 15 13 12 27 10 4 1 4 3 6 | 20 10 8 11 16 13 17 12 11 21 31 34 | 74 33 77 37 63 45 82 28 91 74 37 56 | 0.00 0.00 0.00 0.00 0.00 0.00 0.12 0.02 0.0 | 0.93 0.28 0.18 0.58 0.39 0.45 0.44 0.85 0.23 0.86 0.15 0.62 | 0°36 1°56 0°90 0°23 0°19 0°26 0°30 0°31 0°43 0°94 0°35 0°13 | 0·18 0·23 0·13 0·05 0·03 0·02 0·08 0·15 0·16 0·10 0·07 0·08 | 1·16 0·17 0·84 0·53 1·03 0·35 0·10 0·72 0·19 0·33 0·24 0·95 | 0.23 0.18 0.15 0.14 0.31 0.11 0.04 0.01 0.04 0.03 0.06 0.00 | 0·25 0·12 0·09 0·13 0·18 0·14 0·19 0·13 0·11 0·22 0·35 | 0.95 0.41 0.93 0.43 0.73 0.51 0.91 0.30 0.98 0.78 0.38 0.57 |
| 1890 1891 1892 | | 89 34 63 | 15 5 8 | 11 11 6 | 38 30 59 | 13 15 2 | 30 31 22 | 70 35 57 | 0.00 | 0.90 0.33 0.61 | 0·15 0·04 0·07 | 0·11 0·10 0·05 | 0.38 0.29 0.57 | 0·13 0·14 0·01 | 0·30 0·30 0·21 | 0.70 0.84 0.55 |
| 1893 1894 | 1 1 | 15 94 | 12 10 | 16 38 | 68 66 | 1 | 26 18 | 171 57 | 0.009 | 0·14 0·88 | 0.09 | 0·15 0·35 | 0.65 0.62 | 0.00 | 0·25 0·17 | 1.64 0.53 |

Deaths in the Union Hospital and Workhouse.—As a supplement to the Street Register, it is deemed advisable to add a return of the deaths in the Union Hospital and Workhouse, giving in each case the address of the deceased when admitted into the Union, and date of admission. The sex, age, occupation, date and cause of death are extracted from the register, and the information in the last column has been supplied by the Master of

the Workhouse. The return is an important one in many respects. From it is prepared the summary here submitted of the localities from which patients dying in the Union were received.

| LOCALITIES FROM WHICH PATIENTS DYING IN UNION WERE RECEIVED. | Year when Admitted to Union. | | | | | | | | | | | | I. |
|--|------------------------------|------|------|------|------|------|------|------|------|------|------|------|----------------------------------|
| | 1883 | 1884 | 1885 | 1886 | 1887 | 1888 | 1889 | 1890 | 1881 | 1892 | 1893 | 1894 | TOTAL |
| Birkenhead-Ward not specified | 1 | 1 | 1 | 1 | | | 1 | 2 | 1 | | | | 8 |
| Cleveland Ward | | | | | | | | | 2 | 2 | 2 | 18 | 24 |
| Grange ,, | | 1 | 1 | | | .: | | | | 1 | 9 | 200 | 35 |
| Argyle ,, | | | 1 | 1 | .: | 1 | | 1 | 1 | 4 | 13 | | 46 |
| Tranmere-Ward not specified | | | | | | | - | 1 | | 2 | 2 | 5 | 9 |
| Egerton ,, Clifton | | | | 1200 | | :: | 1 | | | 1 | 1 | 2 5 | 9 |
| Clifton ,, Mersey ,, | 00 | | | | | | | | | | î | 2 | 3 |
| Workhouse Official | | | | | | | | | | | | | 1 |
| Born in Workhouse | | | | | | | | | | | | 4 | 46 9 8 8 3 1 4 |
| Liverpool | | | • • | • • | | | | | | • • | 1 | ••• | 1 |
| Total | 1 | 2 | 3 | 2 | 1 | 2 | 3 | 5 | 4 | 10 | 31 | 82 | 147 |

General and Zymotic Death-Rate month by month throughout the year.—Table V. in the appendix, shows the general and zymotic mortality, month by month throughout the year. The general death-rate was highest in the month ending July 15th (27-80), and lowest in the month ending May 20th (16.28). The zymotic death-rate ranged from 9.51 in July to 1.62 in February.

Description of those who died during 1894.—The last of the tables appended, Table VII., gives the "description" of all those whose deaths have been registered during the year. The information is furnished in each case by the person registering the death, and is, doubtless, trustworthy. The table may be of some use in supplying the material for a rough estimate of the effects of the year's mortality on the local community; i.e., the loss sustained by the professional and commercial classes, the artisan and labouring classes, and that largest class of all, the non-productive. Those also employed in any recognized form of skilled or unskilled labour may here see the number of deaths, in 1894, in the ranks of fellow-workers in the Borough. The number of bread-winners removed by death from the local community, in 1894, is computed thus;—The first two columns of

Table VII., are cast and added together, and from this is subtracted the sum of those described as annuitants, pensioners, ladies, gentlemen, retired tradesmen, &c., or whose occupation is "unknown." It does not, of course, follow that everyone described as belonging to any particular trade or calling was necessarily working for a living within a reasonable time of his or her decease, or that everyone described as a son, daughter, wife, or widow, was non-productive, or merely occupied with domestic duties. Still a proximately correct estimate of those among the deceased who were self-supporting, and family-supporting, as distinguished from those who were wholly dependent or only partially self-supporting. The number of those who must have been wholly dependent on others may be computed from figures in the age table.

Sketch Map of the Borough.—The sketch map of the Borough, which has been added, shows the boundaries of the wards and the positions of the houses in which deaths from zymotic diseases have occurred. The fatal cases of zymotic diseases received into the Borough Hospital, Children's Hospital, and Workhouse Hospital have, as far as possible, been referred to the localities from which they were drawn.

Inspection of Common Lodging Houses and Houses let in Lodgings.

The following is a statement of the work performed during the year by the Inspector of Common Lodging Houses and Houses let in lodgings, viz:—

REGISTERED COMMON LODGING HOUSES.

| Day Inspections | | 916 |
|-------------------|------|---------|
| Night Inspections | | 85 |

Two new houses were put on the register, after being carefully inspected and certified by the Medical Officer of Health as suitable for the purpose.

The total number of registered lodging houses so certified is ten. There were also five night visits paid to unregistered houses suspected of taking in nightly lodgers.

REGISTERED HOUSES LET IN LODGINGS:

 Day Inspections
 ...
 ...
 5059

 Night Inspections
 ...
 ...
 44

Eighty-three additional houses were put on the register after being properly measured up, and duly certified as fit for the purpose. The total number of houses let in lodgings on the register at the end of 1894 was 364.

During the year, two prosecutions were taken for various offences, and convictions obtained in each case as under—

July 28 16 Leicester St.

Boundoverin
£5 to come lar as a sleeping up for judg-apartment.
ment when called upon.

Nov. 16 17 Waterloo Place 10/- and costs. For allowing a room in a common lodging house to be used by two or more married couples, such room not being properly fitted for the purpose.

Ordinary Sanitary Operations.—The ordinary sanitary operations of this department have received unremitting attention. House-to-house inspections of the cottage property in the Borough have been regularly made. Gulleys and passage drains have been periodically cleansed, public fountains &c., have been scoured and kept in order, and the systematic removal of ashpit refuse at stated intervals has been carefully superintended.

Overcrowding and Cellar-occupation.—Though the repression of overcrowding and cellar-occupation presents exceptional difficulties, much has been accomplished in the past year.

Six cellar dwellings were reported by the Inspector, and in every case suppressed.

Summary of Nuisances &c.—The summary of nuisances investigated and dealt with during 1894, is as follows:—

| | 1894 | |
|--|----------|--|
| Number of nuisances reported | 6248 | |
| Number abated without formal notice | 440 | |
| Number of formal notices given | 5808 | |
| Number abated after formal notice and without proceedings | 5807 | |
| Number of cases in which proceedings were taken for ordinary nuisances | 1 | |
| Number abated after proceedings | 1 | |
| Number of cases in which summonses were | | |
| issued for non-payment of disinfecting expenses. Amounts and costs received in each case | 7 | |
| Number of cases in which proceedings were taken for keeping a Common Lodging House in an improper manner, in | | |
| accordance with Bye-Law 4 | 1 | |
| Disinfecting notices | 1443 | |
| Under Infectious Diseases (Prevention) Act | 792 | |
| Houses Let in Lodgings | 95 | |
| Common Lodging Houses | 8 | |
| Cleansing of filthy houses | 1 | |
| | | |

A brief statement of the other measures taken in 1894, for correcting or getting rid of whatever appeared to be prejudicial to health is subjoined.

| | 1894 |
|---|------|
| Sanitary defects reported by the Inspectors and referred for the action of the Borough Surveyor | 290 |
| Houses or parts of houses specially disinfected by sulphurous acid or other disinfectants | 1792 |
| Notices to whitewash and efficiently cleanse milkhouses, cowsheds, and dairies, given and complied with | 330 |

| Offensive privies ordered for conversion into water-closets | 534 |
|---|------|
| Parcels of infected bedding and clothes disinfected at the Disinfecting House | 420 |
| Parcels of infected or discarded bedding and clothes destroyed | 232 |
| Carcases of dogs and cats removed from pools or waste land and buried | 167 |
| Deposits of putrid fish and other objectionable refuse removed. | 5 |
| Total | 3770 |

It will be seen from the above that the work of the Department has been very largely increased during the year, in part due to the new Acts of Parliament which have come into force since 1st January, 1892.

Cholera Order of 6th September, 1892.—In carrying out the provisions of this Order, 22 visits were made during the year by the Disinfecting Inspector to addresses sent by Port Sanitary Authorities, of persons arriving in Birkenhead who were on board ships coming from cholera-infected ports, and who were permitted to land pursuant to Article 2 of the above Order, on giving the Port Medical Officer their names and places of destination. Such persons were kept under supervision until all possibility of their being affected with the disease had ceased.

District Inspection.—The following is a statement of the work done by the District Inspectors of Nuisances and the Disinfecting Inspector during 1894.

| | | | | | and | umber of visits I revisits made to anitary property. |
|----------|-------|-----------|--------|--------|-----|--|
| District | A- | Inspector | Fitzge | rald | | 5588 |
| ,, | В | ,, | Lee | | | 4000 |
| ,, | C | ,, | н. т. | Taylor | | 4582 |
| Disinfe | eting | Inspector | Isaac | Taylor | | 8985 |
| | | | | | | |
| | | | | Total | | 23155 |

The Disinfecting Inspector also paid twenty-two visits in connection with reports from the Port Sanitary Authority, and seventeen visits for the purpose of examining railway trucks at the terminus in Shore Road.

412 excavations were made for the purpose of testing the conditions of house drains.

FACTORY AND WORKSHOP ACTS, 1878 to 1891.

In connection with the carrying out of the provisions of these Acts, the following is a statement of the work done by the Inspectors during the year, viz.—

- 800 visits have been made to workshops.
 - 96 workshops have been placed on the Register during the year, making a total of 400 up to the end of 1894.
 - 42 workshops have been closed.
 - 26 workshops have been transferred to more suitable premises.
- 347 nuisances in connection with workshops have been reported and abated.
 - 80 notices have been served for the abatement of nuisances arising out of defective drainage, and ten for inefficient ventilation.
- 50 notices to cleanse and limewash the workshops have been served and complied with.
- In addition to the above, the occupiers of 45 workshops have limewashed their premises under inspection, but without waiting for the formal notice.
 - 12 cases of overcrowding have been reported and stopped.
 - 70 cases have been notified to H.M. Inspector of Factories as referred to in section 3, sub-section 3 of the Act.

Lists of out-workers have been carefully kept, and notices in the form prescribed by the Secretary of State as given in my report for 1892 (pp. 57 and 58) have been served upon forty-five employers. Twenty-six additional outworkers had been placed on the Register up to the end of the year.

"Shop Hours Act, 1892."

In carrying out the provisions of this Act, the Inspector has paid 800 visits to different shops, and the occupiers' names and addresses have been placed upon a Register specially kept for the purpose, together with the date of his visits. Printed notices in the following form have been served in every case.

THE SHOP HOURS ACT, 1892.

Notice is hereby given, pursuant to section 4 of the abovementioned Act, that no young person, (that is, a person under the age of 18 years), may lawfully be employed in this shop for a longer period than 74 hours, including meal times in any one week.

Ashpits &c.—In connection with this subject I can only repeat what I said in my last year's report, I there called attention to the large number of houses in Birkenhead that have compound privy-middens for the reception of excremental matter as well as ashes and other refuse, frequently of a most objectionable character.

These receptacles are in many cases actually abutting upon the house walls, and in others they are only a few feet removed from bedroom or other windows that open directly upon them.

They form a constant source of danger to the people dwelling near, and are liable at any moment to have infective excreta thrown into them, there to find a nidus for the growth of the infective germs and to form centres for the spread of disease in the locality.

The question as to the number of these privies and compound middens in the Borough has been carefully gone into, and it was estimated that at midsummer, 1893, the approximate number still in existence within the Borough was about 2721. The Health Committee has been dealing with these middens year by year as opportunities have arisen, and during the past year a large number have been converted into water-closets and dry ashpits, properly covered in and ventilated, and provided with efficient doors and fastenings.

The following table shows the number converted in each year since 1890, from which it will be seen that a great step has been made during this year towards the abolition of these objectionable nurseries of disease

| | 1890 | 1891 | 1892 | 1893 | 1894 |
|------------------|------|------|------|------|------|
| Number converted | 240 | 195 | 282 | 790 | 542 |

Since the above number of 2721 compound middens was estimated, there have been 950 conversions ordered; thus leaving a balance of 1771 remaining to be dealt with at the end of the year.

Seizure and Destruction of Unwholesome Meat, Fish, and Vegetables.—The Meat and Food Inspector, Mr. Robert Wagstaffe, has furnished the following particulars of Meat &c., unfit for human food, seized and destroyed during 1894.

The total number of seizures made was 965, being 430 more than the number of seizures last year, and the weight of the meat seized amounted to 276,225½ lbs., this amount was made up as follows:—

| | | lbs. |
|------------------------------------|----------|----------------------|
| 68 carcases of beef | weighing | 53,719 |
| Portions of beef | | $7,169\frac{3}{4}$ |
| 206 calves | | 7,335 |
| Portions of veal | | - |
| 497 sheep and lambs | ", | 28,534 |
| Portions of sheep and lambs | ,, | 2761 |
| 26 pigs | | 2,995 |
| Portions of pigs | ,, | 218 |
| Ham and bacon | ,, | 251 |
| Sausages | ,, | 6 |
| Offal (i.e. liver, lungs, tongues, | | |
| spleens or melts &c.) | ,, | $175,946\frac{1}{2}$ |
| Total of meat seized in 1894 | ł | 276,2251 |

In addition to the above, there were also seized 1 cwt. 3 qrs. of bad fish, 4 rabbits, 5 pheasants and 64 lbs. of tomatoes.

As in all recent years, a considerable proportion of the meat seized was on premises in connection with the Foreign Animals' Wharf, Woodside.

The amount of meat seized and destroyed this year was not so large as the previous year, but much greater than the mean annual seizure. The mean annual seizure during the ten years 1881-90 amounted to 43,822 lbs., in 1891 it was 64,896 lbs., and in 1892 it was 116,284 lbs.

The large amount of offal seized this year, is due entirely to the wet weather experienced during the summer. The meat went bad in the slaughter-houses at Woodside before it could be disposed of, and became totally unfit for food.

The whole of the bad meat seized is dealt with at the Old Potteries, Seacombe, without creating noticeable effluvia; in accordance with an arrangement entered into in February, 1887.

Twelve applications were made to a Justice for an order to destroy diseased or unsound food (under the Public Health Act, 1875, clause 117) and granted in every case. Five persons were summoned before the Magistrate for exposing for sale food unfit for human consumption, and convictions obtained in every case.

Tuberculosis.—During the year 7 carcases of beasts, 17 carcases of pigs, 1 sheep's carcase and 1 calf's carcase, together with 37½ lbs. of pork in pieces, and 1442 lbs. of offal and two rabbits, were seized and destroyed through being affected with tuberculosis; the total amount weighing 6,522½ lbs.

"Sale of Food and Drugs Acts, 1875 and 1879, and Margarine Act, 1887."—The Chief Inspector of Nuisances (Mr. William Dawson) gives the following summary of proceedings taken under these Acts during 1894, viz.—

The total number of samples taken during the year was 104; viz., Butter 31, Cheese 3, Coffee 12, Lard 6, Milk 40, Ground Ginger 4, Tea 2, Brandy 2, Rum 2, Gin 2. Out of the above, 4 samples of butter and 2 of milk were reported adulterated, by the Public Analyst, and proceedings were taken in respect of four of these, the results of which are as follows, viz.—

| Quarter Ending. | No. | Article. | Amount of Adulteration. | Penalty Imposed in addition to Costs. |
|-----------------|-----|----------|----------------------------|---|
| March 31 | 3 | Butter | Margarine | £ s. d. 5 0 0 0 5 0 3 0 0 15 0 0 |
| September 30 | 35 | Milk | 8 per cent. of water | |
| December 31 | 58 | Butter | Margarine | |
| December 31 | 59 | Butter | Margarine | |

In the first of the above cases, the prosecution was taken under somewhat remarkable circumstances. The defendant kept a so-called "farmer's stall" in the market, and the Inspector purchased from her a pound of butter made up into a "pat," paying 1s. 4d. for it. On analysis it was found to be simply margarine. The magistrates said they considered it a distinct and serious fraud upon the public, and inflicted a penalty of £5 and costs (or some £6 12s. 0d. in all), or two months' imprisonment in default.

Bakehouses—The duties involved in carrying out the provisions of the Acts relating to the sanitary condition of bakehouses, have been put under a special Inspector, who also looks after the workshops in the Borough.

Very special attention has been paid during the year to the keeping of the bakehouses in a clean and healthy state, free from all effluvia from drains, privies, and other nuisances. Many sanitary defects have been discovered and remedied. Great attention has also been paid to see that a proper water supply is provided for each bakehouse, and that efficient ventilation can be secured; whilst regular limewashing has been required and enforced in every case.

There has been a very great improvement secured by the systematical inspection carried out during the year.

The Milkhouses.—The regulation of dairies, cowsheds, and milk-shops, and the supervision of milk-sellers, has had systematic attention throughout the year. Special care is taken that the ventilation, lighting, cleansing, draining, and water supply of premises used for the milk-trade are thoroughly efficient. Towards the close of the year 1888, new regulations for the more efficient control of the trade were drafted, and these were approved and made by the Town Council, acting as the Local Authority for the Borough, on January 2nd, 1889. A copy of these regulations was appended to the Report for 1888, and printed copies are supplied free to dairymen, milkshop keepers, &c. The register of milk-sellers is revised week by week. The total number of milk-shops is 134, in addition there are 27 cowsheds, and 44 farmers resident outside the Borough, registered to purvey milk inside the Borough.

Open Sewer-Ventilators in the Roads.

During the year 1894 there have been a considerable number of complaints received regarding nuisances arising from the effluvia from the sewer ventilators.

In some few instances no doubt these complaints may have been well founded, and possibly a few cases of diarrhoa or other disease might be traced to this cause, still it by no means follows that a bad and objectionable smell is necessarily dangerous to health. And I am of the opinion that a great deal more fuss is made about the smells from the sewers than is called for or justified. However, recognising the feeling that exists on the subject, the Borough Surveyor has taken, during the year, very exceptional and thorough means to have the sewers and gullies periodically flushed with disinfectants, so as to reduce any danger arising therefrom to a minimum, 2,245,820 gallons of water were used for sewer flushing.

Open Spaces and Recreation Grounds.—I would again specially call the attention of the Health Committee to the desirability of securing a few open spaces in the centre of the more populous parts of the town, to be laid out as gymnasia and

recreation grounds, for the benefit of the children who have to live in the narrow, ill-ventilated and often sunless courts and alleys which exist in the lower parts of the Borough. The benefits in the shape of improved physical stamina which would accrue to these children cannot be over-estimated, and must help to enable them to bear better the future struggle for life and reduce the pauper rate accordingly. The value of such open places of recreation is now fully acknowledged and requires no further demonstration here, but I would remind the Committee that the open spaces are being rapidly absorbed for building purposes, and will very soon have disappeared, never to be regained. I would most strongly urge, therefore, in the interest of the health of the poor, that an effort be made to secure at least one or two open spaces for this purpose.

Public Wash-houses.—I must also repeat what I said last year as to the great benefits which public wash-houses give to the poor, especially to those who have to earn their living, and often support a family of young children, by means of taking in washing, is now getting to be generally recognized in most of our large towns, and in my opinion ought to be adopted here at as early a date as possible.

When we consider the total unfitness, from a sanitary point of view, of a small cottage, for the carrying on of a laundry business, and the amount of dampness to the house, and general discomfort which it must cause to the children and other occupants of small kitchens in which the processes are carried on, it will be seen at once what an enormous boon a public wash-house offers to the smaller householders.

The amount charged for the use of a small separate compartment, with the necessary hot water, steam boiler, and other washing apparatus as provided in the modern public wash-house, must be much less than the cost of washing at home, besides being infinitely more clean and healthy, and thus enables a very deserving class of women to make ends meet more easily,

whilst the children get better food, and a home free from the necessary steam and wet attendant on the house washing, and thus infinitely more comfortable. I would once more strongly urge upon the consideration of the Corporation, the desirability of providing these very useful and sanitary accommodations.

The Fever Hospital.—The old Fever Hospital in Livingstone Street, with its 23 beds, although totally inadequate to the wants of the Borough, had again to serve for another year as our only means of isolating cases of infectious diseases. For several months it was closed to everything but smallpox, there being cases of that disease under treatment in the wards, and no other disease could be taken at the same time, owing to insufficiency of the air zone and inadequacy of accommodation for administration purposes.

The number of patients treated in 1894 was exactly 100, a larger number than is recorded for any year with the exception of the years 1877 and 1884.

Out of these 100 patients, 3 died, giving a death rate of 3 per cent., the lowest yet recorded; and when the difficulties are considered under which provision has had to be made for so large a number, it is very satisfactory to find how low the death rate has been, and what a very large percentage of recoveries has been made.

The ordinary nursing staff consisted of a Lady Matron (Miss Yeomans) and four permanent nurses. And great credit is due to them for the way in which they have carried out their duties, sometimes under very trying circumstances. The greatest number of patients under treatment at any one time was 20, viz., in the month of June, when we had three separate diseases in the hospital.

The following table shows the number of patients admitted, the number of deaths, and the percentage of deaths for each year since the opening of the Hospital in 1876.

| Year | Number treated | Number of deaths | Mortality per cent. |
|---------------------|-------------------|---------------------|------------------------|
| 1876 | 24 | 4 | 16.6 |
| 1877 | 194 | 27 | 13.9 |
| 1878 | 45 | 5 | 11.0 |
| 1879 | 30 | 5 1 | 3.3 |
| 1880 | 45 | 3 | 6.6 |
| 1881 | 36 | 9 | 25.0 |
| 1882 | 86 | 16 | 18.6 |
| 1883 | 70 | 9 | 12.8 |
| 1884 | 121 | 15 | 12.4 |
| 1885 | 55 | 3 | 5.4 |
| 1886 | 45 | 5 | 11.0 |
| 1887 | 56 | 11 | 19.0 |
| 1888 | 65 | 3 | 4.6 |
| 1889 | 18 | | |
| 1890 | 94 | 14 | 15.0 |
| 1891 | 47 | 15 | 32.0 |
| 1892 | 81 | 11 | 13.5 |
| 1893 | 93 | 4 | 4.3 |
| 1894 | 100 | 3 | 3.0 |
| Total since opening | 1305 | 158 | 12.1 |

Particulars as to the localities from which the patients were derived in 1894, and the diseases of patients received from each locality, are given in the following table.

1894.

| Loc | ALITII | ES | Smallpox | Measles (german) | Scarlatina | Typhus Fever | Typhoid Fever | Continued Fever | For Observation | TOTAL. |
|---|---|----|--|---------------------------------------|----------------------------------|--------------------------|-----------------------------|----------------------|-----------------|--|
| Cleveland Grange Argyle Egerton Clifton Mersey Bebington Claughton Oxton Noctorum | Ward ", ", ", ", ", ", ", ", ", ", ", ", ", | | 2 1 1 3 1 1 | · · · · · · · · · · · · · · · · · · · | 7 10 8 4 4 1 3 | 2 1 2 1 | 21 15 6 1 1 | :: :: :: :: | `i | 32 27 16 7 7 4 2 3 2 |
| Total | | | 9 | 1 | 37 | 7 | 44 | 1 | 1 | 100 |

It will thus be seen that of the patients treated in 1894, 32 per cent. were from Cleveland Ward, in which the Hospital is situated.

Particulars as to results are given in the next table :-

| DISEASES | | м. | F. | | e- ered | Di | ied | R mo | e- ved |
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| | - | _ | _ | м. | F. | м. | F. | м. | F. |
| Small-pox—admitted German Measles ,, Scarlatina ,, Typhus Fever , remaining Typhoid Fever admitted Continued fever ,, Sent in for Pneumonia Typhoid Fever | | 3 19 3 2 17 | 6 1 18 4 2 23 1 | 3 19 3 1 17 | 6 1 18 4 2 21 1 | | | :::::::: | |
| Total | | 45 | 55 | 44 | 53 | 1 | 2 | | |

Thus out of 100 patients, 3 died—a mortality of 3 per cent. These deaths were due in every case to typhoid fever.

The New Hospital.

The corner stone of the Administrative Block was laid on the 24th of February of this year by the Mayor, (Benedict Jones, Esq., M.A., Cantab, Barrister-at-law), and it was anticipated that the buildings would be ready for the reception of patients by the beginning of November; but this proved not to be the case, and the year closed without the Hospital being completed. We may expect, however, that by the end of another year proper hospital accommodation will have been provided.

The Disinfecting House.—Good service continues to be rendered by the Disinfecting House. Mattresses, palliasses, beds, pillows, bolsters, woollen clothing, and fabrics from infected rooms are brought here and disinfected by heat. The bedding and clothing are fetched and delivered by the Corporation officers in light covered vans provided for the purpose. Occasionally, when the bedding is exceptionally foul, it is destroyed at the disinfecting house furnace, and replaced or allowed for at the cost of the Authority. There is a man specially appointed to take charge of the apparatus; and a disinfecting inspector to supervise the disinfection of premises, the removal and delivery of bedding, &c.

The apparatus, which is one of Messrs. Goddard, Massey & Warner's "Nottingham Patent Steam Disinfecting Apparatus,"

was erected in 1891, and a full description of it was given in the report for that year. It does not therefore call for any special notice here, and it is only necessary to say that it has been found in practice to be thoroughly efficient in its working.

Refuse Destructor.

It was expected that the South-end Refuse Destructor would be ready for use by about the end of September, but up to the close of the year it was still in process of construction.

The Housing of the Labouring Classes—No progress was made in 1894 in getting rid of the insanitary property referred to in Special Report on the Dwellings of the Labouring Classes, which was presented on February 4th, 1890. A list of back-to-back houses, numbering in all 475, and a list of obstructive houses, numbering in all 354, was appended to that report, and it was recommended that their demolition should be obtained. A few houses were pulled down during 1890, 1891, and 1892 by order of the Sanitary Authority, as detailed in the reports for those years.

But during 1893 and 1894 nothing further has been done as regards actual demolition. The Medical Officer of Health reported very fully on several blocks of insanitary property in 1893, and the result was that in two cases re-drainage and extensive alterations were made, rendering the houses more sanitary and fit for habitation.

In case of one row of back-to-back dwellings reported on, numbering fourteen, the houses were closed up rather than put them into proper repair, and in this way went out of occupation.

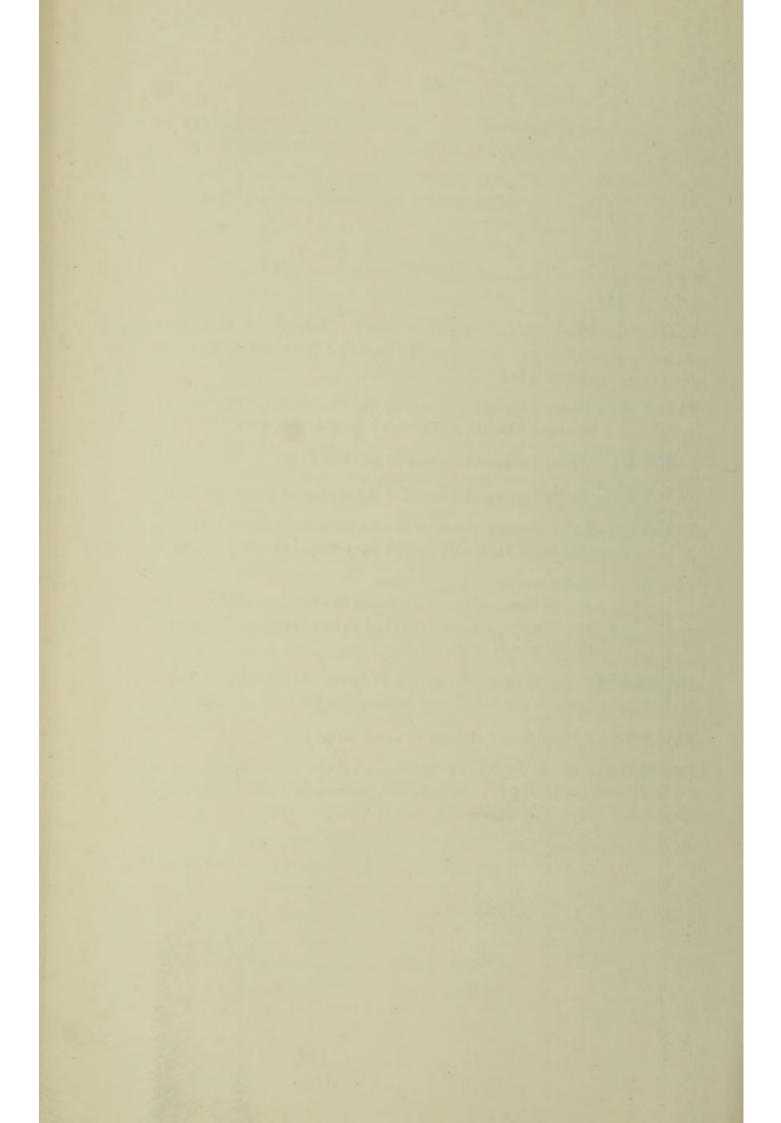
In many cases the entire cleansing and limewashing of the premises was ordered and effectively carried out.

R. SYDNEY MARSDEN.

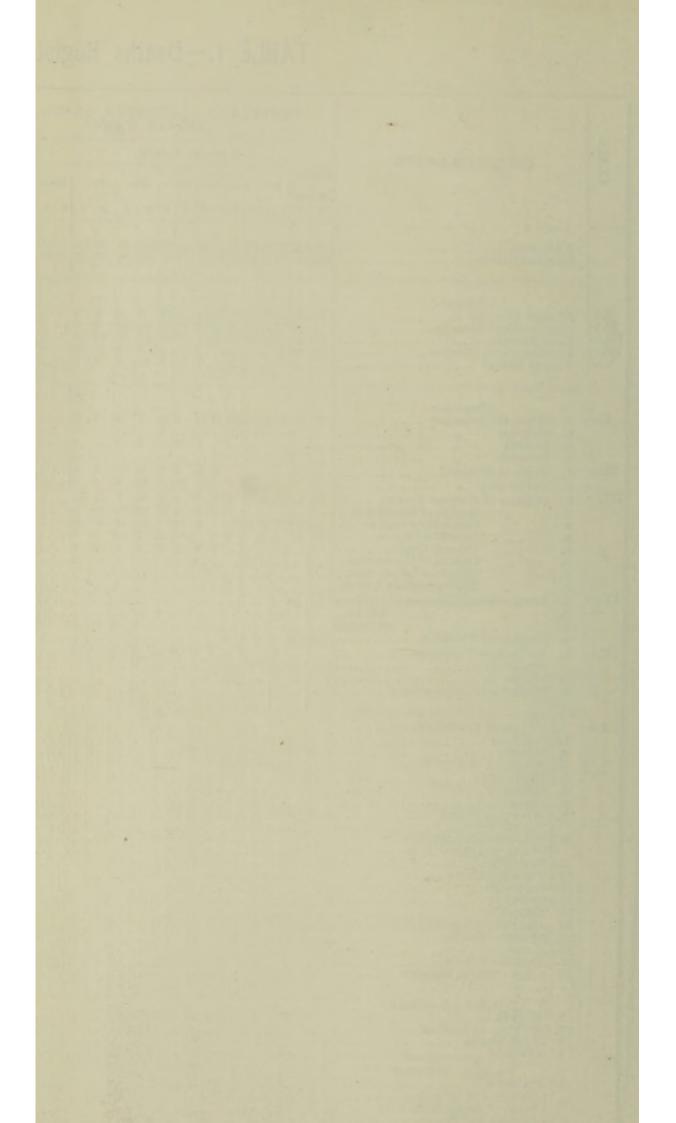
MEDICAL OFFICER OF HEALTH'S DEPARTMENT, TOWN HALL, MARCH 20TH, 1895.

APPENDIX.

- TABLE I.—Deaths Registered in the County Borough of Birkenhead during the year ending December 31st, 1894, classified according to age.
- TABLE II.—Weekly Register of Deaths in the County Borough of Birkenhead for the year ending December 31st, 1894.
- TABLE III.—Weekly Condensed Register of Deaths for 1894.
- TABLE IV .- Weekly Condensed Register of Meteorological Results for 1894.
- TABLE V.—Lunar Monthly Totals of Deaths from all causes and Zymotic Diseases in 1894, with the rate per 1000 per annum.
- TABLE VI.-Street Register of Deaths-1894.
 - A. Cleveland, Claughton, Grange, and Argyle Wards.
 - B. Oxton, Egerton, Clifton, and Mersey Wards.
 - C. Bebington Ward.
- SUPPLEMENT TO TABLE VI.—Return of Deaths in Birkenhead Union Hospital and Workhouse, registered in 1894.
- TABLE VII .- "Description" of those who died during 1894.
- SKETCH MAP of the Borough of Birkenhead, showing the Boundaries of the Wards, and the position of houses in which Deaths from Zymotic Diseases took place in 1894.

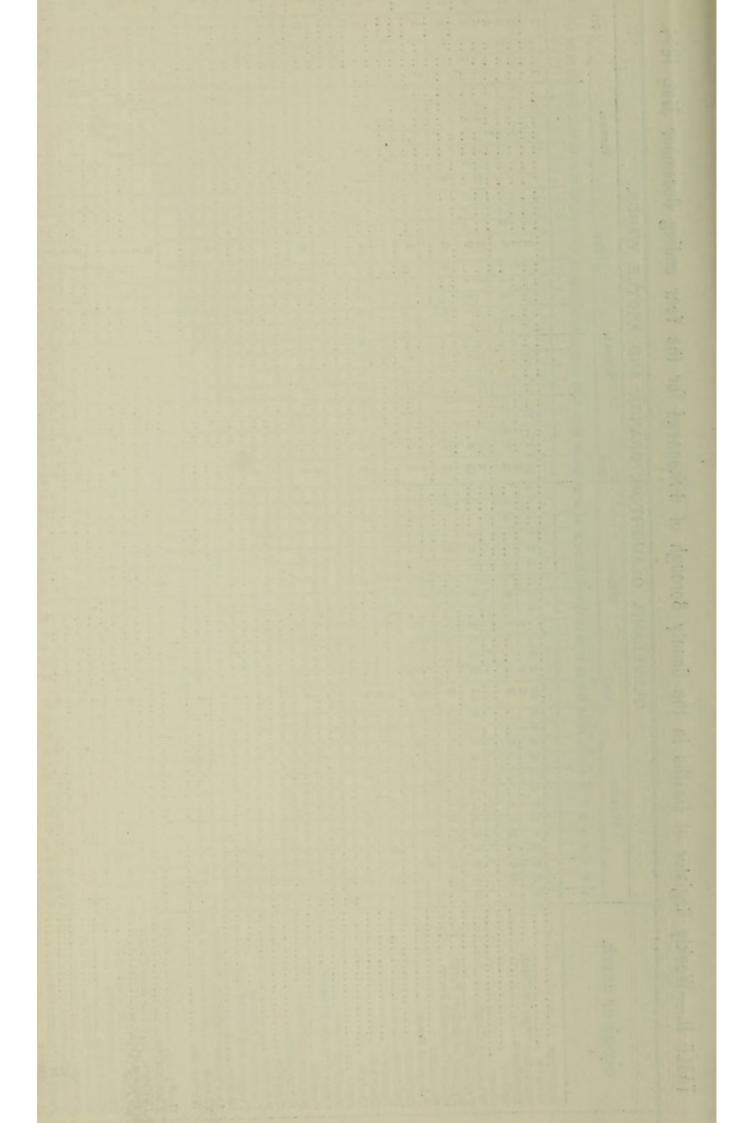


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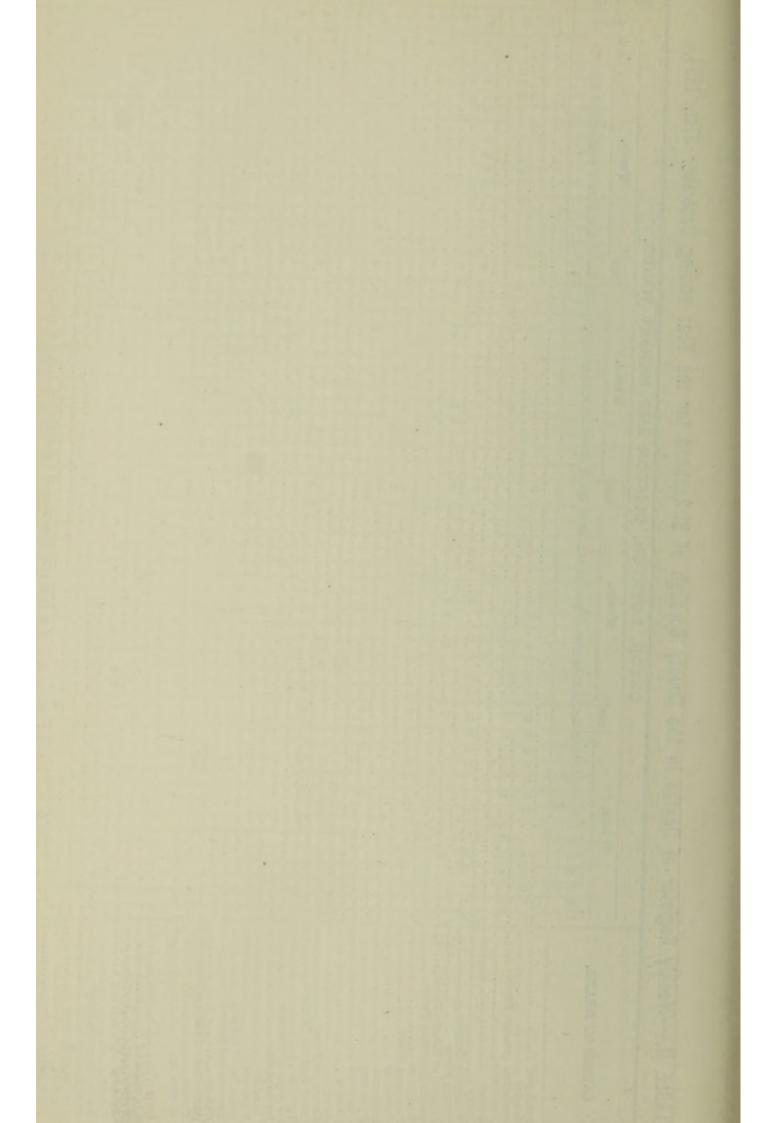
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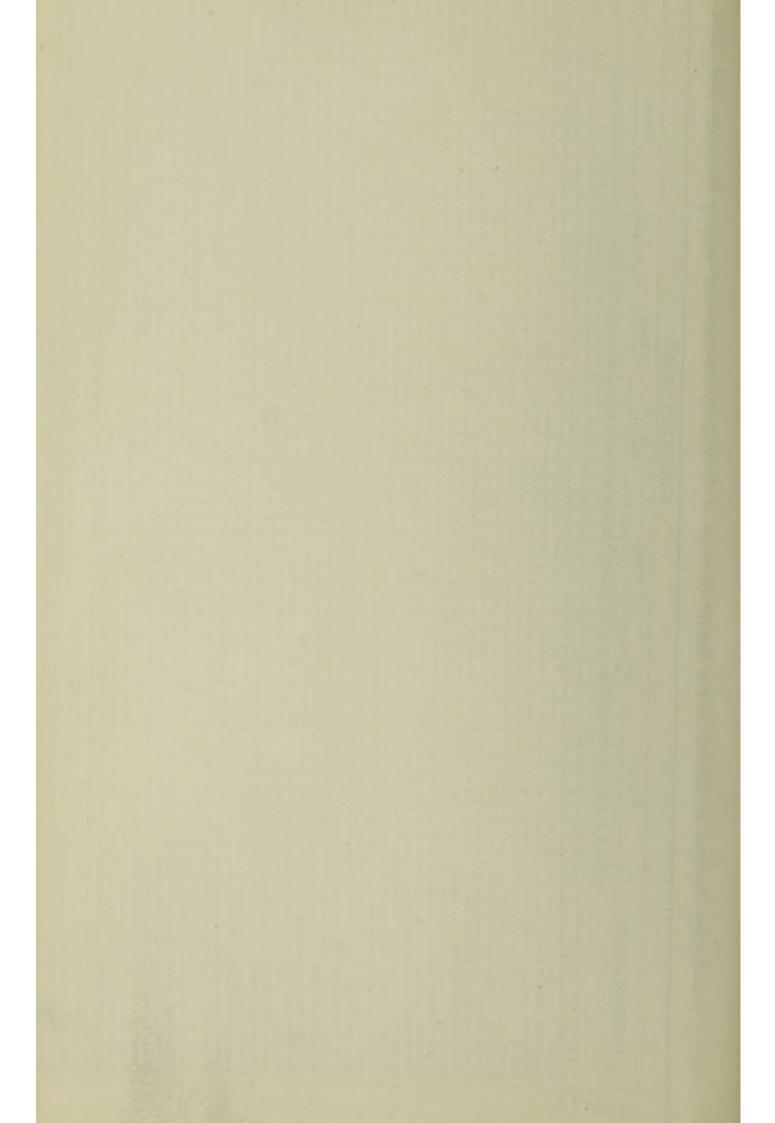


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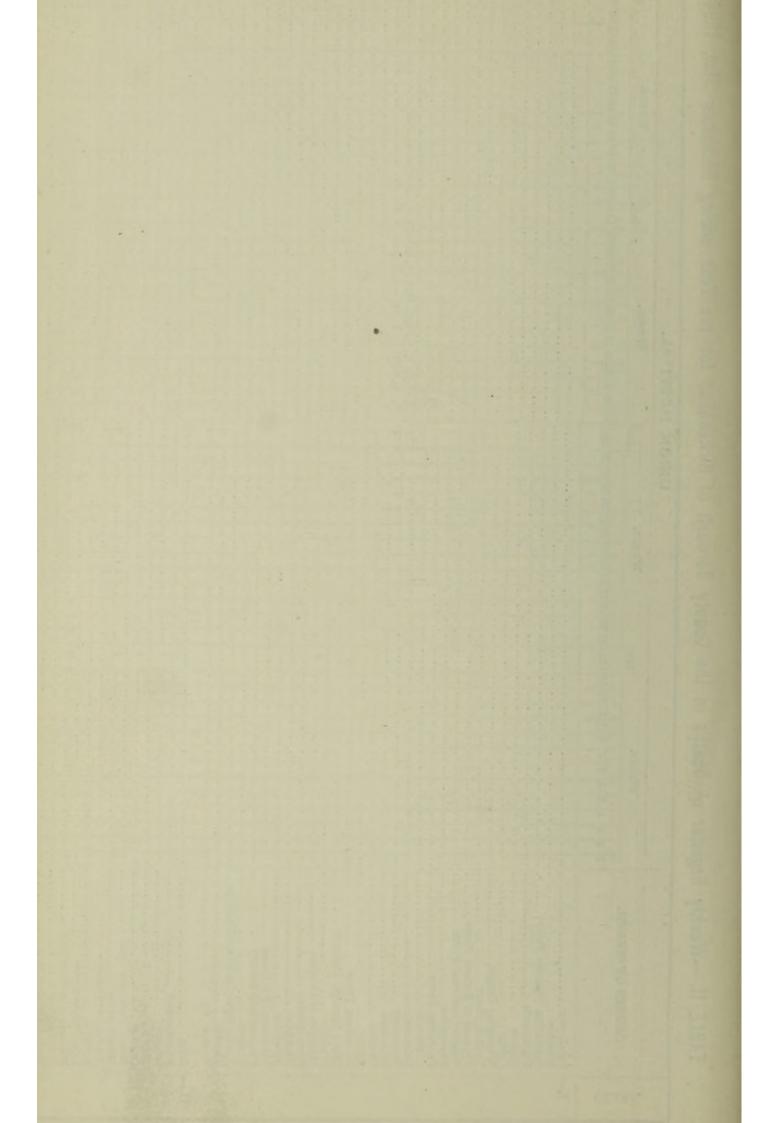


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| = | -45 | 220-10- | 149: 259 | 44:0101: | | |
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| EEKS. | 34 | 888-40 | 1119189 : | 55 | 200 | 44 0 0 0 C |
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| 1 | 31.3 | 44888 | 2200004 | 110043 | 0101 : :: | ::-: |
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| ! | 24 25 | 1 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | ====================================== | 5544604 : | 1111111 | 0101 : |
| | - 62 | 171 | 880498 | 11:0001 | :::: | 444 (0 ; ; |
| | 81 | 1 440426 : | P 20 0 0 1 0 1 : | 554:00: | 111111 | 1010 1446 : |
| 100 100 100 100 100 100 100 100 100 100 | 0.21 | 1 2 2 6 4 3 3 6 1 1 1 1 2 1 6 4 8 3 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1655433 | 00:000 | :-:: | 0101:01: |
| 20 | 19 20 | 8 8 8 8 8 8 1 1 1 8 8 8 8 8 8 8 8 8 8 8 | 151555488 | 210-80: | | 0101 |
| | 181 | 10000000 : | 26.88 | 00:00: | ::::::: | 00:00:: |
| | 17 | 95000000 | 23,0-100 | 2391-980 : | ::::::: | 00::0H: |
| | 16 | 25.66 6.27 | 554050: | 00 X H 31 LO : : | | 44-01-:: |
| 1 | 14 15 16 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 252 24 257 257 257 257 257 257 257 257 257 257 | 8122118: | 000:01=: | 000:000: |
| - | | | 258 258 258 258 251 251 251 251 251 251 251 251 251 251 | 181 282 192 193 193 194 195 195 195 195 195 195 195 195 195 195 | @@@@# : : | 25 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
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| | 2 13 | \$ 12 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 25182 2518 2518 | 111111111111111111111111111111111111111 | | 000:00:: |
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| 100 | | | 884:30: | 310 :00 : | :::::: | 000:401: |
| WEEKS. | 00 | 877-8 88 4 1 838-8 88 4 1 838-8 88 4 1 774-8 8 8 8 8 1 1 1 1 1 1 1 1 | 88888 1101 122 132 132 132 133 133 133 133 133 13 | 2112 2212 2212 2213 2213 2213 2213 2213 | 0101::: | 44: 300 |
| VE | 9 | \$ 4 5 8 8 5 4 1 \$ 5 5 8 8 8 5 1 | 35 25 25 25 25 25 25 25 25 25 25 25 25 25 | 1 | -::::::: | 000:00:: |
| - | 10 | | 1934 1934 1418 14193 14193 | 004440: | :::: | 64: 14: 1 |
| | 4 | 880471-: | 2001 4 8 8 4 : | 10 12 12 12 12 12 12 12 12 12 12 12 12 12 | :-:: | 000::01-: |
| | 00 | 201010011 | 23 16 2 1 1 2 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 058464: | ::-:: | 10 3 10 3 10 3 10 3 10 3 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| | - | 35 6152 35 6051 11 14 14 1 1 32 23 1 1 32 23 1 1 3 2 23 | 21 40 38 21 39 37 7 5 111 9 23 16 9 23 16 1 1 3 5 | 00414:: HH0141: | - : : : : : : : : | 22 : 2 : : : |
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| 1 | - | 808 | 868 | ses. | 868. | 1808 |
| | AT | s iseav | :: isea: Disea | :: isea: isea: | iseas Siseas Siseas | :::sea: |
| 1 5 | OE | Die S | S Dis | S Di | ses Di Di | Ses Di Di Di |
| 1 | CAUSES OF DEATH. | Jauses ified Causes Cymotte Disease -Constitutional I -Local Diseases -Developmental -Violent Deaths | :: isea isea anta ath | isea onal sase enta | :: isea asee enta sath | causes cified Causes Zymotic Diseases Constitutional Diseases Local Diseases Developmental Diseases Violent Deaths |
| 1 | 0 | ses e D utic Dise De | e bes Disc Disc De | Dise Dise | on the Design | one Dise |
| 1 | 20 | Cau Cau stits all I | Can Can Little | S Cau stit al I | S Can cotion stits all I | S Cau |
| 1 | AU | your Zon | you you | Zyn Zyn Zon Zon Zon | your Con | Son |
| 1 | 3 | All Causes Specified Causes: L.—Zymotic Diseases II.—Constitutional Diseases. III.—Local Diseases IV.—Developmental Diseases V.—Violent Deaths | Specified Causes I.—Zymotic Disc II.—Constitutions III.—Local Discus IV.—Development V.—Violent Deat | All Causes Specified Causes I.—Zymotic Diseases II.—Constitutional Diseases III.—Local Diseases IV.—Developmental Diseases V.—Violent Deaths | All Causes Specified Causes I.—Zymotic Diseases. III.—Constitutional Diseases. III.—Local Diseases IV.—Developmental Diseases V.—Violent Deaths | |
| | | S S HHEY | All Causes Specified Causes I.—Zymotic Diseases II.—Local Diseases IV.—Local Diseases V.—Violent Deaths | SHIPPA | SPE HEIS | E % HHF. |
| - | | | | | | |
| 1 | | rd. | Cleveland, Claughton, Grange and Argyle Wards. | Oxton, Egerton Clifton and Mersey Wards. | u | _ |
| | | hear | land hto hto Wa | Ege Wa | nd. | ion |
| | | Borough of Birkenhead. | Cleveland, Claughton, Frange and rgyle Ward | xton, Egert Clifton and Iersey Ward | Bebington Ward. | Union Hospital |
| | | Bir | Cleveland, Claughton, Grange and Argyle Wards | oxto Chi Cers | B | H |
| 1_ | | | < | 0 % | | |
| | | | | | | |



TABLE IV -- Weekly Condensed Register of Meteorological Results for 1894.

| | AR. | AE | 18-99 | 2-21 | 8.99 | 216-72 | 9-919 | 20.1 | 9-91 | 59-925 |
|---|--------|---------------|---|--|---|--------------------|----------------------|-------------------|---------------------|---|
| ١ | 4TR | Q.B. | 99-SF | 8-91 | 2.12 | 261.8 | 5.105 | 6.91 | 41.2 | 59-62 |
| 1 | | 1 52 | 92.76 | 2.92 | 0.08 | £69·0 | 18.2 | 0.17 | 45.2 | 30.190 |
| ı | | 051 | 88.68 | 9.18 | 1.29 | 917-0 | 1.55 | 42.0 | 7.55 | 692-67 |
| ı | | 92 | 92.19 | 1.07 | 0.08 | 0.252 | 2.91 | 1-21 | 49-0 | 296-67 |
| | | 18 49 | 20.22 | 15-5 | 2.99 | 872-0 | 8-2 | 2-28 T.CE | 9.98 | 196-67 |
| | 100 | 47. | 92.19 | 10.3 | 1.18 | 290-0 | 7-E | 1.SV 2.2V | 1-11 | 30-733 |
| | WEEKS. | 16.4 | 99-99 | 8-EI 6-2I | 0-02 1-29 | 0.262 | 13.5 | 9-11 | 1.51 | 211.62 |
| | WE | 45 | 06-98 | 6.61 | T-29 | 168-0 | 6-82 | 9.61 | 6.91 | 189-67 |
| | Was I | 2 | 12.81 | 9.81 | 2-92 | 188.0 | 2.61 | 8-19 | ₹.6₺ | 129.67 |
| | | 5 | 92-63 | 2.61 | 24-2 | I-422 | 6.18 | 1-21 | 0.91 | 601 67 |
| | | 5 | 15-20 | 2-11 | 2.99 | 1-152 | 1.91 | 9.91 | 1.71 | 896 68 |
| | | 4 | 11.98 | 0.6 | 2-84 | 781-0 | 9-17 | 8-19 | 8-19 | 30.144 |
| | | 9 | 26.7 | 9.8 | 1.29 | 000-0 | 0-0 | 9.19 | 1.81 | 30 355 |
| 1 | 3gD | Qu. | 62-13 | 8.11 | 9-29 | 292-1 | 0.011 | 2-29 | 24.0 | 126-67 |
| | - 00 | 8 | FI-Z | 2-11 | 0.02 | 261.0 | 2.3 | 8-19 | 1.81 | 30.024 |
| | | 88 | 69-00 | 6.01 | 1.22 | 690-0 | 0.8 | 7.99 | 0-79 | 871 08 |
| | | 55 | 01.14 | 6.01 | 2.19 | 000.0 | 0.0 | 9.99 | 9.79 | 268-06 |
| | | 28 | 76-89 | 13.4 | 2.99 | 0.029 | 1.9 | 9.89 | 8.61 | 680 08 |
| | | 88 | 09-28 | 9.6 | 1-29 | 0.00-0 | 0.0 | 6-29 | 8.19 | 291-08 |
| | WEEKS. | 3.4 | 20.00 | 0.21 | 7-57 | 841-1 | 2.13 | 299 | 1.89 | 286-62 |
| | 7ER | 88 | 20-46 | 2.12 | 1-22 | 0.251 | 2.01 | 9.29 | 6.89 | 988-67 |
| | F | 132 | _98-86_ | 6.81 | 1.17 | 191.0 | 9.9 | 2.69 | 22.1 | 618-67 |
| | | 30 31 | 20.99 | 0.91 | 0.02 | 1.233 | 6.21 | 2.19 | 8.19 | 862-68 Sec ez |
| | | 500 | 69-27 | 9.11 | 1.19 | 188-0 | 10.0 | 1.29 T.90 | 9.19 | 992-67 |
| | | 58 | - | | | 119-0 | 9.11 | 1.89 T 90 | _ | 59.288 |
| | | 27 2 | 98-29 | 13-2 | 2-29 | 989-0 | 9.2 | 7-89 7-89 | 1.19 | 820-08 |
| | Q | | | | | | | | | |
| | 2ND | Q.H. | 19.19 | 14.4 | 1.89 | 670.9 | 1.941 | 9.89 | 1.81 | 676-67 |
| | | 36 | 10.11 | 1.21 | 74.5 | 902-0 | 2.3 | 7-89 | 8-19 | 20-523 |
| 8 | | 55 | 11.98 | 13.1 | 8-72 | 808-0 | 7.81 | 0.49 | 23.3 | 696-67 |
| | | 2.0 | 19-26 | 8-81 | 1-19 | 0.415 | 10.2 | 1.99 | 2.79 | 896-67 |
| | | - 63 | 87.15 | 10.3 | 1.18 | 816-0 | 25.3 | 8.19 | 6.19 | 218.66 |
| | 100 | 65 | 12.09 | 15.0 | 24.5 | 688-0 | 14.5 | 6-09 | 1.20 | 802-67 |
| | × | 0 21 | 51.40 | 1.81 | 2.89 | 0.023 | 9.7 | 6.91 | 45.5 | 191.08 Ten oc |
| | WEEKS. | 19 20 | 87.68 | 6-2I 7-2I | Z-1-29 | 919.0 | 9.97 | 20.1 | 48.0 | 30.084 |
| ı | - | 181 | 12.18 | 2-6I | 0.08 | 0.239 | 1.26 | 0-61 | 9.95 | 30.045 |
| | | 171 | 11.98 | 14.9 | 1.22 | 198.0 | 8.8 | 9.99 | 1.91 | 829-63 |
| | | 16 | 10.11 | 6-11 | 2-29 | 0.223 | 1.91 | 1.61 | 9.97 | 282-67 |
| | | 15 | 33-33 | 0.11 | 2.82 | 621.0 | 1.8 | 1.23 | 9.87 | 628-62 |
| ı | | = | 69-81 | 13.0 | 2.19 | 671.0 | 6.1 | 9 09 | 7.91 | 800-08 |
| 8 | Ist | Q.E. | 90-69 | 53.0 | 8-69 | 671-9 | 0.891 | 45.3 | 9.68 | 698-67 |
| В | - | . 8 | 61-1 | 13.2 | 20.0 | 000-0 | 0.0 | 8.09 | 6.11 | 810.08 |
| | | 9 10 11 12 13 | 11.98 | 6.01 | 0.00 | 000-0 | 0.0 | 6.91 | 1.87 | 916.08 |
| | | = | 06-98 | 7.72 | 8.75 | 629-0 | 12.2 | 45.0 | 2-68 | 699-67 |
| | | 101 | 97.76 | 8.23 | 9.82 | 084-0 | 1.81 | 0.11 | 41.2 | 969-67 |
| | 2.00 | 100000 | 88-96 | 6.97 | 8.79 | 127-0 | 2.11 | 9.11 | 6.11 | 892-67 |
| | X S | 00 | 48-42 | F-21 | 1-19 | 907-0 | 4.2 | 9.98 | 6.18 | 161.08 |
| | WEEKS. | - | 84-19 | 8-23 | 1.22 | 1.521 | 1.26 | 7-11 | 6-88 | 008-67 |
| | A | 9 | _00-26_ | 35.6 | P-12 | 566-0 | 1.8I | 8-91 | 44.3 | 59-949 |
| | | 70 | 30-26 | 2.08 | 9.79 | 618-0 | 1.81 | 9.11 | 0.68 | 929-63 |
| | | - 00 | 09-26 | 7-97 7-97 | 9.89 0.08 | 0.453 | 15.3 | 9.11 | 9-80 | 819-63 109-63 |
| | | 01 | 06-11 | 7-86 | 1.19 | 122-0 | 8-81 | 9.01 | 9-67 | 792-68 |
| ı | - | - | 19.41 | 7-8I | 1.19 | 210-0 | 6-8 | 1.66 | 8.27 | 997-08 |
| | _ | | - | | | | | - | | |
| | | | Percentage of time Wind blew from S., S.W., W., and N.W. | Mean Hourly Horizontal Motion of the Air in Miles | Average Percentage of Cloud to Clear Sky | Rainfall in Inches | Rainfall as to Hours | Thermometer Means | Mean of Evaporation | Barometer Means, reduced to Sea Level. and to 32º Fahrenheit |
| | | | P.Z. | foi : | ono: | | - 1 | | 1 | enle |
| | | | ing | 1 | 5 : | | | | | ced |
| ı | | | ₽ e. | nto. | of : | | : | : | - d | Page |
| | | | We | izcilles | · 6 | 90 | nr | an | tio | 100 |
| | | | 3. | N | nts : | She | Ho | Me | ora | o S |
| | | | P. S. | Ly. | rce. | In | 2 | er | apo | Me d t |
| | | | 50 : | Air | Pe | E. | ns ns | aet | Ev | an an |
| | | | o S | Ho ne | 50 M | Ę | 크 | топ | Jo | el. |
| | | | ercentage of time Wind blew from S., S.W., W., and N.W. | ean Hourly Horizor of the Air in Miles | verage Per Clear Sky | infa | nf | NT. | 9 | Ton |
| 1 | | | Per | Me | Are | Rai | Rai | Ch | Me | Ban |
| | | | | - | | | | - | - | |
| | | | F | | | | | | | |
| | | | s. | | | | | | | |
| | | | teorologi Results. | | | | | | | |
| | | | Ses | | | | | | | 157.10 |
| | | | Meteorological Results. | | | | | | | |
| | | | F14 | | | | | | | |

The Meteorological Results are for the 52 weeks ending December 29th, 1894.

Mean reading of the Barometer for 25 years reduced to the Sea level, and to 32° Fahrenheit 29.915 inches.



TABLE V.

LUNAR MONTHLY TABLE OF DEATHS from all Causes and Zymotic Diseases, with the Rates per 1,000 per annum.

| | | | 1894 | | No. of Deaths from All Causes. | Annual Rate per 1,000 Living. | No. of Deaths from Zymotic Diseases. | Annual Rate 1,000 Living. |
|-------|------|---------|-------------------|--|--------------------------------------|-------------------------------------|--|------------------------------|
| 1st N | Iont | h endin | g January 28th | | 183 | 22.5 | 48 | 5.9 |
| 2nd | ,, | ,, | February 25th | | 189 | 23.2 | 33 | 4.0 |
| 3rd | ,, | ,, | March 25th | | 154 | 18.9 | 45 | 5.5 |
| 4th | ,, | ,, | April 22nd | | 167 | 20.5 | 35 | 4.3 |
| 5th | | " | May 20th | | 169 | 20.8 | 27 | 3.3 |
| 6th | ,, | " | June 17th | | 143 | 17.6 | 20 | 2.4 |
| 7th | ,, | " | July 15th | | 129 | 15.8 | 15 | 1.8 |
| 8th | ,, | ,, | August 12th | | 151 | 18.5 | 34 | 4.1 |
| 9th | ,, | " | September 9th | | 130 | 16.0 | 29 | 3.2 |
| 10th | ,, | " | October 7th | | 114 | 14.0 | 14 | 1.7 |
| 11th | " | " | November 4th | | 114 | 14.0 | 11 | 1.3 |
| 12th | ,, | " | December 2nd | | 114 | 14.0 | 15 | 1.8 |
| 13th | " | | day extra) ending | | 158 | 18.7 | 14 | 1.6 |
| | | | Year | | 1915 | 18.1 | 340 | 3.2 |

TABLE VI.

STREET REGISTER OF DEATHS.

A .- CLEVELAND, CLAUGHTON, GRANGE, AND ARGYLE WARDS.

| Streets. | | Total from all Causes. | From Zymotic Diseases only | Streets. | Total from all Causes. | From Zymotic Diseases only. |
|------------------------------------|-----|------------------------|----------------------------|--------------------|------------------------------|-----------------------------------|
| Abbey street | | 2 | 0 | Carlisle street | 5 | 0 |
| Abbot street | | 4 | 0 | Castle buildings | 4 | 1 |
| Adelphi street | | 5 | 1 | Cathcart street | 12 | 1 |
| Albion street | | 12 | 6 | Catherine street | 2 | 0 |
| Alexandra road | | 2 | 1 | Cavendish street | 1 | 0 |
| Argyle street | | 4 | 0 | Chapel place | 2 | 1 |
| Arrow place | | 1 | 0 | Chapel street | 2 | 1 |
| Arthur street | | 5 | 2 | Charlesville | 1 | 0 |
| Aspinall street | | 7 | 0 | Chester street | 9 | 6 |
| Atherton street | | 1 | 0 | Christ church road | 1 | 0 |
| Athol street | | 1 | 0 | Church street | 2 | 0 |
| Austin street | | 2 | 0 | Clarendon street | 6 | 1 |
| Back Camden street | | 1 | 0 | Claughton firs | 1 | 0 |
| Back Livingstone stre | eet | 1 | 1 | Claughton road | 11 | 3 |
| Back Price street | | 6 | 1 | Clayton street | 1 | 0 |
| Back St. Anne street | | 8 | 0 | Cleveland avenue | 2 | 1 |
| Balls road | | 3 | 0 | Cleveland street | 21 | 1 |
| Balls road east | | 2 | 1 | Clifton crescent | 3 | 1 |
| Barton street | | 4 | 3 | Club row | 2 | 1 |
| Beckwith street | | 33 | 8 | Clwyd street | 1 | 1 |
| Bedford street | | 1 | 0 | Coburg street | 4 | 0 |
| Belmont | | 2 | 0 | Collingwood street | 4 | 1 |
| Belmont grove | | 1 | 0 | Conway place | 1 | 0 |
| Bentinck street | | 17 | 1 | Conway street | 16 | 3 |
| Bentinck terrace | | 2 | 0 | Cook street | 1 | 0 |
| Berry street | | 2 | 0 | Cottage street | 7 | 3 |
| Bertha street | | 2 | 1 | Coventry street | 1 | 0 |
| Blackpool street | | 2 | 0 | Craven place | 1 | 0. |
| Borough Hospital | | 18 | 0 | Craven street | 6 | 0 |
| Borough road | | 17 | 2 | Crown street | 2 | 0 |
| Brassey street | | 2 | 1 | Cumberland place | 3 | 1 |
| Brattan road | | 1 | 0 | Cyprus street | 1 | 0 |
| Bray street | | 2 | 1 | Dacre street | 7 | 1 |
| Bridge street | | 8 | 1 | Davies street | 4 | 0 |
| Brimstage street | | 1 | 0 | Derby street | 4 | 0 |
| Brook place | | 1 | 0. | Douglas street | 1 | 0 |
| Brook square | | 2 43 | 0 | Dover street | 3 3 | 0 3 |
| Brook street | | 5 | 12 | D 1 1 | 1 | 0 |
| Brunswick avenue | | 1 | 0 | Eastham street | 2 | 0 |
| Burton street | | 1 | 0 | Dont Acat | 2 | 0 |
| Byrom place | | 1 | 0 | Water word | 1 | 1 |
| Byrom street | | 2 | 0 | T. J | 3 | 0 |
| Cambridge place Camden street | | 12 | 4 | Donaton storet | 3 | 2 |
| | • | 1 | 0 | Elden place | 4 | 1 |
| Campbell terrace Canning street | | 1 | 0 | Eldon atwest | 4 | 0 |
| Calling Street | | 1 | U | Eldon street | - 4 | 0 |
| Cardigan street | | 1 | 0 | Elgin street | 2 | 0 |

TABLE VI — Continued.

| Total from Causes. | Zymoric Diseases only. STREETS. | Total from all Causes. | From Zymotic Diseases onl |
|---|---------------------------------|------------------------------|---------------------------------|
| Elizabeth place 1 | Ivy bank | 1 | 0 |
| Elizabeth street 3 | l Ivy street | 7 | 1 |
| Erskine street 3 | Jackson street | 3 | 0 |
| Eton place 5 | l Keightley street | 5 | 0 |
| Euston grove 2 | Kent place | 3 | 1 |
| Exmouth street 6 | 1 King's mount | 3 | 0 |
| Falcon road 1 | Knowles street | 2 | 2 |
| Field street 4 | Knox street | 1 | 0 |
| Flamank street 1 | D Laird street | 3 | 3 |
| Flint street 1 | 1 Lansdowne road | 1 | 0 |
| Florence street 1 | D Leicester street | 5 | 2 |
| Fore street 3 | 1 Leinster street | 2 | 0 |
| Fox street 8 | 2 Leta street | 3 | 0 |
| Frederick street 4 | D Livingstone street | 7 | 2 |
| Garnet street 3 | D Lord street | 8 | 1 |
| George street 8 | 2 Lorn street | 2 | 1 |
| Gilbrook 1 | 0 Lowther street | 9 | 0 |
| Gladstone street 8 | 1 Lydia terrace | 1 | 0 |
| Glover street 3 | 0 Maddock street | 1 | 0 |
| Godfrey's terrace 2 | 1 Malta street | 1 | 0 |
| Gomer street 3 | 1 Marion street | | 2 |
| Gore street 1 | 0 Market place south | 1 | 0 |
| Grace street 3 | 0 Market street | 15 | 4 |
| Grange mount 5 | 0 Marshall place | 3 | 1 |
| Grange road 10 | 2 Marshall street | | 0 |
| Grange road west 3 | Meacock street | | 0 |
| Great float 1 | Meadow street | 20 | 0 |
| Greenfield street 3 | Menai street | | 0 |
| Grosvenor place 1 | Mersey place | | 1 |
| Grosvenor road 2 Haleyon road 2 | 0 Mersey street | - | 0 |
| | 0 Midland street | 150 | 1 |
| | 1 Miller's place Milton street | 1 | 1 |
| | 0 35 | | 0 |
| TT - Diese street 1 | O Manla atreat | 1 | 0 |
| TT 1 - 1 - 1 | O Mann atmost | 0 | 0 |
| TT | O Mountain street | 1 | 1 1 |
| Harper's court 1 | 0 15 | 0 | 1 |
| Havelock street 2 | 1 Monath bailding | - | 0 |
| TT 1 (1 1 1 1 | O Mowneth deals | 0 | 0 |
| Hemingford terrace 1 Henry street 11 | 9 Montimon atreat | 0 | 1 |
| Herbert place 2 | O Mount mone | | 0 |
| Hilton street 6 | 1 Manatan atreat | 1 | 0 |
| Hind street 2 | 0 Myrtle court | 4 | 0 |
| Hinson street 2 | 0 Myrtle place | 1 | 0 |
| Hope street 7 | 1 Myrtle street | 1 | 1 |
| Horatio street 1 | 0 Napier street | 1 | 0 |
| Howard street 4 | 0 Nelson street | 0 | 0 |
| Howe street 1 | 1 Neptune street | 0 | 1 |
| Huskisson street 1 | 0 Neston street | 1 | 2 |
| | | 361 | |

52
TABLE VI.—Continued.

| | | | .— Contention. | | |
|--|------------------------|-----------------------------|--------------------------------|------------------------|-----------------------------------|
| Streets. | Total from all Causes. | From Zymotic Diseases only. | STREETS. | Total from all Causes. | From Zymotic Diseases only. |
| Newton street | 1 | 0 | St. John's place | 1 | 0 |
| Oakfield view | 2 | 0 | St. John's street | î | 1 |
| Oak street | 10 | 1 | St. Mary's gate | 4 | î |
| Old Bidston road | 14 | 4 | Ct Manual at and | 2 | 1 |
| Old Deigen | 2 | 2 | Callabarra storet | 2 | 2 |
| I Olimon mlace | 8 | 2 | Can Jean Jakanak | 2 | ő |
| 011 | 15 | 7 | Comen atmost | 3 | 0 |
| | 1 | 0 | Cantila mlana | 1 | 0 |
| Orderly place Oxton road | 11 | 1 | | 2 | 0 |
| The state of the s | 2 | 0 | Shaw's place Shaw's terrace | 1 | 1 |
| Palm grove | 0 | 0 | | 1 | |
| Parkfield avenue | 0 | 1 100 | Simpson street | 7 | 0 |
| Parkfield place | | 0 | Somerville street | 3 | 1 |
| Park road east | 1 | 1 | Stafford street | 1 | 0 |
| Park road sonth | 100 | 0 | Stanley road | | 0 |
| Park street | 5 | 2 | Stoke street | 7 | 4 |
| Paterson street | - | 3 | Sun street | 4 | 2 |
| Patten street | | 0 | Sussex street | 2 | 0 |
| Payson street | 10000 | 1 | Taylor's buildings | 6 | 1 |
| Penrith street | | 1 | Taylor street | 3 | 0 |
| Pensby street | | 0 | Thomas street | 13 | 5 |
| Pilgrim street | | 0 | Tranmere vale | 8 | 2 |
| Pleasant street | | 0 | Tunnel road | 2 | 0 |
| Pool street | | 0 | Turner street | 2 | 0 |
| Pover's court | | 0 | Upper Beckwith street | 2 | 1 |
| Price street | | 4 | Upton road | 1 | 1 |
| Princes street | | 1 | Vicars court | 3 | 1 |
| Princes terrace | | 0 | Vine street | 6 | 0 |
| Priory court | | 0 | Vittoria street | 2 | 0 |
| Priory street | | 1 | Vulcan street | 7 | 2 |
| Prospect place | 1 | 0 | Walton street | 1 | 0 |
| Queen's buildings . | 22 | 4 | Warwick street | 3 | 0 |
| Queensbury street . | 3 | 0 | Waterloo place | 2 | 0 |
| Radnor place | 2 | 0 | Watson street | 12 | 3 |
| Ravenscroft road . | 1 | 0 | Wellesley street | 3 | 0 |
| Rhyl street | | 1 | Wesley street | 1 | 1 |
| Richmond cottages . | . 3 | 1 | Westbourne road | 7 | 1 |
| Richmond terrace . | 1 | 0 | West float | 2 | 0 |
| Ridley street | 4 | 0 | Whetstone lane | 1 | 1 |
| River Mersey | | 0 | Whetstone view | 1 | 0 |
| Robert street | 2 | 1 | White street | 6 | 2 |
| Roe street | - | 0 | Wilkinson street | 5 | 1 |
| Romilly street | - | 0 | Willaston place | 2 | 0 |
| Rose street | - | 0 | Williams' cottages | 1 | 0 |
| Ross terrace | 0 | 0 | William street | 2 | 0 |
| Rowland street | 0 | 0 | Willow street | 1 | 0 |
| Russell place | | 1 | Wilson street | 4 | 1 |
| Russell street | 0 | 2 | Wilton street | 3 | ō |
| St. Aidan's college . | 4 | ő | Windsor street | 2 | 0 |
| St. Anne's grove . | - | 0 | Wirral children's h'spital | 100 | 0 |
| Cit A Award | 10 | 5 | Was Jahanah mas J | 3 | 0 |
| St. Anne street | 120 | 0 | Wood street | 6 | 0 |
| A REAL PROPERTY AND ADDRESS OF THE PARTY OF | 1 | • | H Wood Street | 1 | 0 |

53

TABLE VI .- Continued.

B .- OXTON, EGERTON, CLIFTON AND MERSEY WARDS.

| STREETS. | Total from | Erom Zymotic Diseases only | STREETS. | Total from all Causes. | From Zymotic Diseases only. |
|-------------------------------------|------------|---|----------------------|------------------------|-----------------------------------|
| Albert place | 5 | 0 | Ebenezer street | 3 | 2 |
| Alison street | 5 | 0 | Egerton park : | 2 | 0 |
| Allerton road | 5 | | Elm grove | 2 | 0 |
| Amery grove | 1 | 0 | Fairclough lane | 1 | 0 |
| Apple grove | 5 | 0 | Fairfield road | 2 | 0 |
| Argyle street south | 1 | | Fairview road | 1 | 0 |
| Arno road | 1 | 1 | Farm road | 4 | 1 |
| Back Portland street | (| | Fearnley road | 2 | 0 |
| Beaconsfield road | (| | Fountain street | 2 | 0 |
| Bebington road | 9 | | Frodsham street | 6 | 1 |
| Bedford place | 8 | | Gladstone road | 6 | 1 |
| Bedford road | 1 | | Gothic street | 1 | 0 |
| Beech road | | | Green lawn | î | 1 |
| Beresford road | (| | Greenway road | 5 | 1 |
| Bidston road | 5 | | Grosvenor street | 10 | 2 |
| Blucher street | 5 | | Grove road | 4 | 2 |
| Bold street | | | Hampden grove | 1 | 0 |
| Booth street | 2 | | Hampden street | 2 | 0 |
| Borough road | 16 | - | Harland road | 5 | 1 |
| Brookland road | 3 | | Hatherley street | 3 | 2 |
| Brougham street | | | Hazel road | 3 | 0 |
| Brunswick street | 6 | | Heath Bank road | 1 | ő |
| Buxton road | 1 | | Helmingham road | 3 | 0 |
| Caerwys grove | : | | Holme lane | 2 | 0 |
| Cedar street | 6 | | Holt hill | 1 | 0 |
| Chapel place | | | Holt hill convent | î | 0 |
| Chapel square | 1 | | Holt road | î | 0 |
| Chatham road | | | Howson street | 1 | 1 |
| Chesnut grove | | | Hughes' cottages | î | 0 |
| Church road | | | Kingsdown street | î | 0 |
| Church terrace | 6 | | 77:11 | 1 | 0 |
| Clarence road | 1 | | Kingsmead road north | | 1 |
| Circular road | 1 | | Kingsmead road south | 3 | 0 |
| Clare street | - | | Larch road | 3 | 0 |
| (1) | 1 | | T | 1 | 0 |
| Clifton road | 6 | | T '11 -44 | 3 | 1 |
| Clade stood | 6 | | T | 1 | 0 |
| 0-11 | 6 | | T | 1 | 0 |
| A 1 2 | 10 | | 7 7 7 | 2 | 0 |
| Cobden street Combermere terrace | 6 | | T | 4 | 2 |
| Comet street | 4 | | 3.5 3 1 1 | 3 | 0 |
| Croxteth street | | | M 1 1 | 2 | 1 |
| Dee street | - 6 | | | 4 | 1 |
| | | | Medway road | 2 | 0 |
| Derby road | | | Mersey road | 3 | 1 |
| Dingle road Downham road | | | Meteor street | 7 | 0 |
| | 2 | | Mill street | | 2 |
| Earl street | 11 | . 5 | Milton road | 9 | 2 |

54
TABLE VI.—Continued.

| Streets. | | Total from all Causes. | From Zymotic Diseases only. | Streets. | | Total from all Causes. | From Zymotic Diseases only |
|---------------------------------|----|------------------------|-----------------------------------|-------------------------------------|----|------------------------|----------------------------|
| Mollington street | | 2 | 1 | St. Paul's villas | | 1 | 0 |
| Mount street | | 1 | 0 | Sea Bank cottages | | 2 | 1 |
| Mulberry road | | 4 10 | 2 | Seymour street | | 1 8 | 0 |
| New Chester road North road | | 2 | 1 0 | Shrewsbury road Sidney buildings | | 4 | 0 2 |
| Oak tree place | :: | 6 | 2 | Sidney road | :: | 1 | ő |
| Oak tree terrace | :: | 1 | 0 | South bank | | î | O |
| Old Chester road | | 24 | 6 | South road | | 2 | 0 |
| Olive crescent | | 1 | 0 | Southwick road | | 1 | 0 |
| Orchard road | | 3 | 1 | Spring villas | | 1 | 0 |
| Park grove | | 1 | 0 | Stanley street | | 5 | 0 |
| Park road | | 1 | 0 | Star street | | 3 | 1 |
| Peel street | | 15 | 2 | Storeton road | | 2 2 | 0 |
| Pitt street | | 4 5 | 0 1 | Stuart road | | 1 | 0 |
| Prenton road east | | 1 | 0 | Temple road The Woodlands | | 3 | 0 |
| Prenton road west | :: | 1 | 1 | Thompson street | | 2 | o |
| Princes place | | 4 | ō | Tower hill | | 2 | 1 |
| Queen's buildings | | 4 | 0 | Tower road | | 1 | 1 |
| Queen's place | | 2 | 1 | Tudor road | | 3 | 0 |
| Queen street | | 4 | 1 | Union street | | 1 | 0 |
| Quigley street | | 1 | 0 | Victoria road | | 4 | 1 |
| Railway road | | 3 | 1 | Walker place | | 1 | 1 |
| Railway terrace | | 2 | 0 | Walker street | | 2 | 0 |
| Randle street Redmond street | | 2 | 0 | Waverley grove | | 2 | 0 |
| Rhoden's place | | 1 | 0 | Wellington road Well lane | | 3 | 1 |
| Ripon street | .: | î | 0 | Westbank road | :: | 1 | ō |
| Rockville street | | î | 0 | Whetstone lane | | 7 | 1 |
| Rocky bank road | | 1 | 0 | Whitfield street | | 2 | 0 |
| Rodney street | | 16 | 3 | Whitford road | | 6 | 1 |
| Roseberry grove | | 1 | 0 | Willmer road | | 1 | 0 |
| Rose cottages | | 2 | 1 | Willow Bank road | | 1 | 0 |
| Rose mount | | 1 | 0 | Willy street | | 2 | 1 |
| Rose place | | 1 | 0 | Woburn place | | 2 | 0 |
| Roslin road | | 1 | 0 | Woodchurch lane | | 2 3 | 0 |
| Roslyn street Russell road | | 8 | 1 1 | Woodehurch road Woodland avenue | | 1 | 0 |
| St. Paul's place | | 3 | 1 | Wycliffe street | | 5 | 4 |
| St. Paul's road | :: | 9 | 1 | Wye street | | 1 | 0 |

TABLE VI .- Continued.

C.—Bebington Ward.

| STREE | TS. | Total from all Causes. | From Zymotic Diseases only | Streets. | Total from all Causes. | From Zymotic |
|---------------|-----|------------------------|----------------------------------|--------------------------|------------------------------|-----------------|
| Acton road | | 1 | 0 | Rock lane | 1 | 0 |
| Acton terrace | | 1 | 0 | Rock lane east | 1 | 1 |
| Dacre hill | | 3 | 0 | Rock park | 5 | 0 |
| Highfield | | 1 | 0 | Training ship "Akbar" | 3 | 0 |
| King street | | 5 | 1 | Training ship "Clarence" | 1 | 0 |
| Nelson place | | 1 | 0 | Training ship "Indetati- | | |
| Nelson road | | 4 | 2 | gable" | 1 | 0 |
| Rock ferry | | 1 | 0 | | | |

SUPPLEMENT TO TABLE VI.

RETURN of DEATHS in Birkenhead Union Hospital and Workhouse, during 1894.

| | _ | | 1 | , | | |
|-------|------|--------|--------------------|---|-------------|----------------------------------|
| Date. | Sex. | Age. | Occupation, &c. | Cause of Death. | | Address of Deceased en admitted. |
| Jan. | - | - | | | | |
| 2 | F | 58 | Pilot's widow | Mortification | Dec. 8.'93 | 5 Walker st., Tra. |
| 4 | | 32 | Labourer | | | 2 Waterloo place |
| 6 | | 47 | Carpenter's widow | | Mar. 16,'90 | |
| 6 | | 64 | Labourer's wife | | | 19 Hope street |
| 7 | F | 52 | Porter's widow | | | 34 White street |
| 9 | | 49 | Clerk | | | 10 Wesley street |
| 9 | | 53 | Labourer's widow | | | W'tone la., B'head |
| 9 | | 83 | Labourer | | | 76 St. Anne street |
| 10 | | 32 | Joiner's wife | Paralysis | | 11 Mill st., Tra |
| 11 | | 45 | Fireman | St'ture of uretha | Jan. 3,'94 | 2 Albert place, Tr. |
| 12 | | 75 | Labourer | | | 138 Beckwith st. |
| 13 | | 6D. | Dom. Serv. Son | | | Born in W'house |
| 14 | | 34 | Labourer | | | 85 Watson street |
| 18 | | 73 | Storekeeper | Senility | | 2 Back Oliver st. |
| 18 | | 69 | Labourer | Senility | Oct. 28,'87 | Tranmere |
| 21 | M | 66 | Labourer | Bronchitis | | 20 St. Mary's gate |
| 23 | M | 58 | Clerk | Pneumonia | July 28,'92 | 21 Sandford street |
| 24 | F | 79 | Wareh'man's wid. | | | 13 Queen st., Tra. |
| 25 | M | 77 | Labourer | 70 2 211 | | Birkenhead |
| 28 | M | 39 | File cutter | | | 10 Queen's pl., Tr. |
| 27 | M | 60 | Carter | | | 33 Brook place |
| 29 | M | 73 | Rag gatherer . | | | 21 Tunnel road |
| 29 | M | 40 | Labourer | | Jan. 26,'94 | 37 Hope street |
| Feb. | | | | | | |
| 1 | M | 43 | Chimney sweeper | | | 25 Park street |
| 2 | F | 28 | Domestic servant | | | 7 Windsor place |
| 2 | M | 70 | Labourer | | | 75 Market street |
| 6 | M | 25 | Labourer | | Sep. 28,'93 | |
| 8 | M | 45 | Waterman | | Sep. 12,'93 | |
| 9 | F | 91 | Servant | | | 10 Grange mount |
| 12 | F | 77 | Labourer's widow | | | 91 St. Anne street |
| 13 | M | 49 | Organ blower | | | 195 Market street |
| 14 | M | 49 | Carter | Bronchitis | Jan. 31,'94 | 6 Hope street |
| | M | 22 | Basket maker | | Sep. 11,'93 | |
| 15 | M | 62 | Carpenter | | Oct. 20,'93 | |
| 21 | F | 83 | Labourer's wid. | | | Egerton street |
| 21 | M | 64 | Old clothes dealer | | | |
| 22 | F | 27 | Flatman's widow | | | 4 Myrtle court |
| 23 | F | 70 | Man serv'nt's wid. | Rup. of blood ves. | Sep. 14,'93 | St. Anne street |
| 26 | M | 65 | Blacksmith | | | 24 Egerton street |
| 28 | M | 28 | Labourer | Phthisis | Jan. 9,'94 | 2 Ivy street |
| Mar. | 200 | 1/2/20 | | 70 2 2 2 2 2 | T 1 11 100 | 0.0-1-0.11 |
| 1000 | M | 66 | Labourer | | | 3 Oakfield view |
| | M | 2м. | Labourer's son | | | 1 Oak tree ter., Tr. |
| 5 | | | Waterman's dau. | | | 25 Vine street |
| 6 | M | 50 | Labourer | | | 24 St. Anne street |
| 6 | F | 61 | Labourer's widow | Bronchitis | sep. 20, 92 | 119 St. Anne street |
| | | | 1 | A TOO TOO TO T | | |

SUPPLEMENT TO TABLE VI.—Continued.

| 17 22 24 27 30 | F F M F | 1м. 63 | Flatman's dau | | | - |
|----------------------------|-------------------|-----------|--------------------------------------|------------------|---------------------------|----------------------|
| 17 22 24 27 30 | F M | | Whatman's day | | | |
| 22 24 27 30 | M | 63 | | | Feb. 2,'94 | |
| 24 27 30 | The second second | 1000000 | Painter's widow | | Aug. 3,'93 | |
| 27 30 | HA. | 50 | Labourer | | Oct. 30,'93 | |
| 30 | | 70 | Labourer's widow | | Feb. 11,'86 | |
| 0.000 | F | 66 | Collier's widow | Pul'nary conges. | | |
| | M | 62 | Joiner | Apoplexy | Aug. 2,'92 | 137 Peel st., Tran |
| April | 777 | 00 | T. b | DL4Linia | M 7 204 | CADLOLA |
| 2 | F | 35 | Labourer's wife Chairmaker's wid. | | | 64 Back St. Annes |
| 3 4 | M | 67 43 | | Pul'nary conges. | April 2,'94 Feb. 8,'94 | |
| 6 | F | 24 | Salt hawker Labourer's dau | | | 7 Euston grove |
| 6 | M | 38 | Coir maker | | Oct. 7,'93 | |
| 7 | M | 24 | Labourer | | | 12 Oakfield view |
| 8 | M | 50 | Labourer | | April 5,'94 | |
| 8 | F | 71 | Gardener's wife | | April 1,'93 | |
| 13 | F | 60 | Charwoman | | April 3,'94 | |
| 16 | M | 39 | Butcher | | Feb. 28,'94 | |
| 17 | F | 29 | Waitress | | Jan. 29,'94 | |
| 19 | M | 55 | Cattle drover | | Mar. 26,'94 | |
| 24 | M | 22 | Labour master | Meningitis | | from Oxford |
| 26 | M | 2 | Labourer's son | | | 123 Fox street |
| 27 | M | 37 | Labourer | | April 17,'94 | |
| 28 | M | 66 | Butcher | | Mar. 13,'94 | |
| 28 | M | 45 | Clerk | Mortification | April 16,'94 | 50 Bentinck street |
| 29 | M | 64 | Joiner | Paralysis | April 28,'94 | 81 Wood street |
| May | and the same | 1000 | | | | |
| 1 | F | 48 | Officer's ser. wid. | | | 3 Wilson' street |
| 1 | M | 70 | Labourer | | | 4 Walter s court |
| 4 | M | 40 | Labourer | | | 75 Mark et street |
| 9 | M | 57 | Labourer | | Mar. 18,'90 | |
| 10 | F | 79 | Labourer's widow | | | 158 Price st eet |
| 12 | F | 60 | Joiner's widow | | | Birkenheadr |
| 20 | F | 57 | General servant | | July 15,'90 | |
| 22 | F | 68 | Joiner's widow | | May 15,'94 | |
| 28 | M | 28 | Printer | | | 1 Fore street |
| | M | 44 | Labourer | | | 20 B'k St. Anne s |
| 29 30 | M | 76 | Labourer | | | 173 Brook street |
| 31 | F | 1M. | Gen. serv. daugh. | | | Born in W'house |
| June | M | 72 | Blacksmith | Senility | Jan. 17, 94 | 163 Market street |
| 2 | M | 51 | Anationoon | Errainalas | Oat 90 '09 | 4 Milton rd., Tra. |
| 5 | F | 51 | Auctioneer Coppers'ith's wid. | Erysipelas | April 6,'94 | |
| 6 | M | 44 70 | | | | 149 Old C'h'r r., T |
| 7 | F | 39 | Wareh'man's wife | | | 26 Clarendon st. |
| 8 | M | 73 | Labourer | | | Holt hill, Tran. |
| 15 | F | 74 | Labourer's widow | | May 10,'88 | |
| 21 | M | 67 | | | | 5 Wilbraham ter. |
| 27 | M | 49 | | | | 21 Albert pl., Tra |
| July | | 20 | 2.000000 | Popular | 0,01 | - Interest party and |
| 1 | M | 71 | Stonemason | Senility | May 24,'93 | 21 Barton street |
| 2 | M | 73 | | | | 75 Market street |
| 6 | F | | Labourer's dau | | | 35 Oak street |

SUPPLEMENT TO TABLE VI.—Continued.

| Date. | Sex. | Age. | Occupation, &c. | Cause of Death. | Date and Address of Deceased when admitted. |
|----------|------|----------|--|------------------|--|
| July | | | | | |
| | F | 41 | | | June 5,'94 12 St. John's pla |
| | F | 31 | Japanner | | Mar. 9,'93 10 Chester place |
| | M | 79 | Labourer | | June 15,'92 12 Egerton street |
| 20 | | 60 | Labourer | | July 10,'94 96 St. Anne stree |
| 20 | | 68 | Rag gatherer | | July 16,'94 2 Pover's court |
| 28 | M | 75 | Blacksmith | Senility | May 2,'93 27 Abbot street |
| Aug. | F | 76 | Comontonia midom | Anonlova | Aug. 3,'94 188 Chester stree |
| 8 | F | 1M. | Carpenter's widow Labourer's daugh. | | Aug. 3,'94 188 Chester stree June 28,'94 2 Harper's court |
| 12 | | 64 | Blacksmith | er | Aug. 2,'94 339 Cleveland st. |
| 14 | | 65 | Engine driver | | July 8,'84 Birkenhead |
| 15 | | 65 | Pedlar | | Feb. 27,'94 6 Meacock street |
| 16 | | 43 | Seaman | | July 7,'93 35 John street |
| 19 | | 41 | Butcher | | Aug. 15,'93 60 Egerton street |
| 22 | | 55 | Labourer | | Aug. 6,'94 2 Gladstone stree |
| 29 | | 33 | Labourer | | July 31,'94 46 Mill street, Tr |
| 31 | M | 61 | Boilermaker | Pul'nary conges. | |
| Sep. | | | | | |
| 1 | F | 78 | Tailor's widow | Senility | April 12,'90 Birkenhead |
| 2 | M | 44 | Nurse | Heart disease | |
| 8 | M | 49 | Boilermaker | | Sep. 3,'94 31 Hind street |
| 17 | M | 34 | Joiner | | Sep. 6,'93 44 Thomas street |
| 19 | F | 60 | Car'ge smith's wi. | | Sep. 7,'94 34 Lord street |
| 23 | F | 63 | Labourer's wife | Paralysis | Sep. 14,'94 31 Warwick stree |
| 23 | M | 31 | Labourer | | Sep. 17,'94 45 Old Bidston r |
| 27 | M | 35 | Carter | Phthisis | May 22,'94 280 Brook street |
| Oct. | 73 | *** | an 1. 1. 1. | A | G 97 104 119 Pilfond - 3 P 1 |
| 3 | | 52 | Glove dr'er's wid. | | Sep. 27,'94 112 B'dford rd.R. |
| 9 | | 77 | Hawker | | May 28,'94 75 Market street April 29,'90 10 Connor's cour |
| 15 | | 74 | Tailor's wife | | April 29,'90 10 Connor's cour Oct. 12,'94 42 Queen st., Tra |
| 16 19 | | 25 32 | Coal heaver's wife Labourer | | Oct. 3,'94 13 Gordon street |
| 30 | | 53 | 77111 1 10 | | July 26,'94 17 Tunnel road |
| Nov. | r | 99 | Fitter's wife | Onnoor | ouly 20, 54 17 1 miner 10 mg |
| 2 | M | 37 | Labourer | Phthisis | Nov. 20,'93 20 Tower rd., Tra |
| | M | 29 | Painter | | Sep. 12,'94 209 Cleveland st. |
| 13 | | 58 | Labourer | Heart disease | Sep. 24,'94 63 Old Bidston r |
| 16 | | 75 | Wine merchant | Senility | Jan. 18,'85 Birkenhead |
| 18 | | 50 | Labourer | Paralysis | April 8,'86 Birkenhead |
| 21 | | 54 | Labourer | Phthisis | Oct. 16,'94 71 Brunswick av |
| 25 | | 61 | Labourer | | Mar. 31,'89 Birkenhead |
| 30 | M | 55 | Labourer | Dropsy | Sep. 7,'94 222 New C'h'r r.,' |
| Dec. | | | | | |
| 4 | | 75 | Tinsmith's widow | Senility | Oct. 19,'94 87 Dacre street |
| 5 | | 41 | Sailmaker's wid. | Gastritis | Nov. 29,'94 25 Price street |
| 9 | F | 37 | Fireman's widow | | Dec. 8,'94 100 Beckwith st. |
| 10 | | 1м. | Collier's daughter | Marasmus | Nov. 16,'94 Born in Whouse |
| 13 | | 67 | Seaman | | May 24,'94 3 Hamilton street |
| 13 | | 61 | C'ton b'ker's dau. | | Dec. 5,'94 56 Hamilton squ Sep. 10,'92 14 Chapel pl., Tr |
| | F | 66 | Shoemaker's wife | | Sep. 10,'92 14 Chapel pl., Tr. July 4,'94 11 Salisbury stre |
| 17 | | 63 | Labourer's widow | | Dec. 17,'94 12 Rodney st., Tr |
| 18 | M | 60 | Blacksmith | Cancel | Dec. 11, of 12 houney st., 11 |
| | | | | | |

SUPPLEMENT TO TABLE VI.—Continued.

| Date. | e. Sex. Age. Occupation, &c. | | Cause of Death. | Date and Address of Deceased when admited. | | | | |
|--|------------------------------|---------------------------------------|--|---|---|--|--|--|
| Dec. 20 21 24 27 28 30 31 | FFFFM | 64 72 72 39 5 32 68 | Baker Jute mill hand Charwoman R'way g'ard's wid. Engi'e dri'r's dau. Shoemaker Carpenter's wid. | Senility Senility Phthisis Phthisis Enteritis | Feb. 15,'94 Nov. 30,'94 Oct. 22,'91 Mar. 2,'94 Dec 26,'94 | 14 Rhyl street 4 Corfu street 25 B'k St. Anne St. 14 B'k Ha'lock St. Tranmere 17 Waterloo place 16 Taylor street | | |

TABLE VII.

Description of those who Died during 1894.

| Occupation, & | c. | | м. | F. | Son. | Daughter. | Wife. | Widow. |
|----------------------------|-----|----|-----|------|------|-----------|-------|--------|
| Accountant | - | | 2 | | 1 | | 1 | |
| Agent | | | | | 1 | | | 1 |
| Annuitant | | | 3 | | | | | |
| Apprentice | | | 4 | | | | | |
| Architect | | | 1 | | | | | |
| Articled clerk | | | 1 | | | | | |
| Assurance agent | | | | | 1 | 3 | 1 | |
| Auctioneer | | | | | | 1 | | 1 |
| Bailiff | | | | | | | 1 | |
| Baker | | | 3 | | 7 | 4 | 2 | 1 |
| Banker | | | | | | 1 | | |
| Barman | | | 1 | | | 2 | | |
| Barrister | | | | | | 1 | | 1 |
| Basket maker | | | | | | | 1 | |
| Bath attendant | | | | | 1 | | | |
| Blacksmith | | | 6 | | 7 | 3 | 2 | 4 |
| Blind maker | | | 1 | | 2 | 1 | | |
| Block maker | | | | | | | | 1 |
| Boiler cleaner | | | ••• | | 4 | :: | *: | |
| Boiler maker | | | 22 | | 10 | 11 | 7 | 3 |
| Book keeper | | | 4 | | 2 | 3 | 1 | 3 |
| Borer | •• | | | •• | 1 | | | |
| Bottler | •• | | | .: | 1 | | | |
| Bottle washer | •• | •• | | 1 | •• | .: | •• | •• |
| Brass finisher | | •• | | | *: | 1 | •• | |
| Brass moulder | •• | | i | | 1 | | | |
| Brewer | | | 1 | | | 3 | 4 | |
| Bricklayer Brick maker | | | | | 1 | 2 | 100 | 2 |
| 70 1 | •• | | 2 | | 1 | 5 | 3 | 1 |
| D | •• | | 1 | | 3 | 5 | 2 | 1 |
| D-4-b-m | | | 7 | | 10 | 13 | 3 | 1 |
| Cab driver | | | 5 | | 4 | 10 | 9 | |
| 0111 | | | 1 | | 100 | | - | ** |
| Cabin boy Cabinet maker | ** | | 3 | :: | i | :: | :: | ï |
| Caretaker | :: | | 2 | | | i | i | |
| Carpenter | :: | :: | | | i | | î | |
| Car proprietor | ••• | | 1 | 1 :: | î | 1 | | |
| Carter | | | 6 | 1 | 13 | 16 | 2 | 2 |
| Cart owner | | | 1 | | | 3 | 1 | 1 |
| Cashier | | | 2 | | 1 | 2 | 1 | |
| Cattle drover | | | | | | | 1 | |
| Caulker | | | | | | 4 | | |
| Chandler | | | | | | 1 | | |
| Charwoman | | | | 1 | 3 | 4 | | |
| Chemist | | | 1 | | 2 | 2 | | 2 |
| Chimney sweeper | | | | | 1 | 1 | | |
| Cigarette maker | | | | 1 | | | | |
| Civil engineer | | | 4 | | 2 | | 2 5 | |
| Clerk | | | 17 | | 11 | 10 | 5 | 5 |

61
TABLE VII.—Continued.

| Cloth cutter 1 | Occupation, &c. | M. | F. | Son | Daughter. | Wife. | Widow. |
|---|--|--------|--|-------|-----------|-------|----------|
| Clothier | | | | | Dat | | A |
| Coachman | | | | | | | |
| Coal worker | | | | | | | |
| Coal merchant | | | | | | | 1 |
| Consulting engineer | | 1 | | | | | |
| Consulting engineer | / Am make a constant of the co | | | 1 | 1 | 1 | 3 |
| Commercial traveller | | | | | | | 1 |
| Commission agent | | 1 | | | | | |
| Compositor 1 | | 3 | | 1 | | | 1 |
| Compositor 1 | Commission agent | | | 1 | 1 | 2 | |
| Confectioner Contractor Cook Cook Cook Cook Cooper Corn merchant Costermonger Customs officer Cycle manufacturer Cycle manufacturer | | | | | | | |
| Cook 1 1 1 1 1 1 < | | | | | 2 | | |
| Cook 4 1 1 1 | Contractor | | | 3970 | 1 | | |
| Corn merchant 1 <td< td=""><td>Cook</td><td></td><td>4</td><td></td><td></td><td></td><td></td></td<> | Cook | | 4 | | | | |
| Corn merchant 1 <td< td=""><td>Cooper</td><td></td><td></td><td></td><td>1</td><td></td><td></td></td<> | Cooper | | | | 1 | | |
| Costermonger 1 | | | | | 1 | 337 | |
| Customs officer 2 3 Cycle manufacturer 1 1 Delegate 1 | | 1 | 1000 | 3589 | | 1200 | |
| Cycle manufacturer 1 1 | (1-1-M | | | | | | |
| Delegate | | 200 | 1000 | | 1 | | |
| Dock gateman 2 | | | 4 4 18 2 4 1 | | | | 1000 |
| Domestic servant | | | Contract of the contract of th | | 180 | | |
| Draper 1 2 2 2 1 Draughtsman 1 1 Drayman 2 1 Driller 2 4 6 1 Engine driver 3 8 1 5 Engine driver 3 8 1 5 Engine greaser 1 | | | | | | | |
| Draughtsman 1 1 | | 1 | | | | | |
| Drayman 2 1 <td>Draughtsman</td> <td>1</td> <td>11/1/201</td> <td>1</td> <td></td> <td>203</td> <td></td> | Draughtsman | 1 | 11/1/201 | 1 | | 203 | |
| Dressmaker 1 | | - 0 | 44 - 75 - | | | | |
| Driller 2 4 6 . 1 Engine driver 3 8 1 5 . Engine er 6 6 5 3 2 Engine greaser 1 Errand boy 2 Estate agent 3 . | | 0.00 | | - | | | |
| Engine driver 3 8 1 5 Engine greaser 1 | Duillan | | 10 | 1/200 | | - | |
| Engineer 6 6 5 3 2 Engine greaser 1 Errand boy 2 Estate agent 3 < | | 0 | 14 2000 | | | | |
| Engine greaser 1 | | 100000 | 1 4 88 | | | | |
| Errand boy 2 | | | | | | | |
| Estate agent 3 | | | | | | | 200 |
| Farmer 1 1 2 1 7 Fireman 3 2 Fisherman 1 1 Fishmonger 1 1 | | 0 | | | | | 200 |
| Fireman 7 14 4 2 Fisherman 3 2 Fishmonger 1 1 Fitter | Townson. | 1 1 | 1000 | | | 1 | |
| Fisherman 3 2 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>7</td><td></td></td<> | | | | | | 7 | |
| Fishmonger 1 1 <t< td=""><td></td><td></td><td></td><td>3</td><td></td><td></td><td></td></t<> | | | | 3 | | | |
| Fitter | | | | 1 | 1 | | |
| Flatman < | Fitter | | | | | 2 | 1 1 |
| Foreman 1 <td< td=""><td></td><td> 7</td><td></td><td></td><td></td><td></td><td></td></td<> | | 7 | | | | | |
| French polisher 1 1 1 Furrier 1 | | | | ! | | | |
| Furrier | | | | | 1 | | 1 |
| Gardener 4 4 4 2 3 Gas fitter 1 1 Gas inspector 1 | | | | | | | |
| Gas fitter | | 4 | | 4 | 4 | 2 | |
| Gas inspector 1 | Clas Ctton | | | 1 | | | |
| Gate keeper 1 | | | | | | | |
| | Gate keeper | | | | | | |
| General merchant 5 2 3 | | 5 | 1 | 2 | 3 | | |
| Glass stainer 1 | | | | | | 1 | |
| Green grocer | | . 1 | | | 200000 | | |
| Grocer 6 2 2 1 | Cuccon | | | | | | i |
| Hair dresser 1 3 2 1 | | | 100 | | | | |
| Hat manufacturer | Hat manufacturer | | | | ī | *** | |
| Trac mandracturer | | | | - | - | | |

62
TABLE VII.—Continued.

| | | | | - | | |
|--|-----|-------|--------|--|--------|--------|
| Occupation, &c. | M. | F. | Son. | Daughter. | Wife. | Widow. |
| Hawker | 1 | | 2 | 3 | 2 | 1 |
| House huseless | | | | | | i |
| Hansa maid | | | 1 | | | 1 |
| Unde merchant | 100 | | 1 | | | •• |
| Town 1 | 4 | | 2 | | | |
| T | 1 | | 1 | i | | |
| T | 4 | | 1 | | | |
| Tues was 11 au | 1 | | 2 | i | | ** |
| Tues whomas | | | | 1 | | |
| Tuon Annuan | | | i | 2 | | |
| Tainen | ii | | 15 | 13 | 5 | 4 |
| Tanamaliat | | | 100000 | 100 | 1030 0 | |
| Labourer | 100 | | 96 | 121 | 43 | 1 24 |
| T - July | | i | | | | |
| Tamm limbton | | | | ** | i | |
| | 2 | | ** | 1 | | i |
| Landed proprietor | 1 | i | 2 | 1 | | |
| T ann des annuitates | | | 1000 | | i | |
| T author author | | •• | ï | i | | |
| T | i | | | -13 | | |
| T. Common 2 . Col. 11 | 5 | | 5 | 6 | ï | |
| | 1 | | | | | 2 |
| Livery stable proprietor | | ** | • • • | .: | | |
| | *; | •• | | 1 2 | | 1 |
| Manager | 1 | | 1 | | | 1 |
| Manufacturer Marble mason | | ••• | 1 1 | .; | | |
| Manina - Can | | | | 1 | -; | |
| Marine officer | *; | | | 1 | 1 | 12 |
| Master mariner | 1 | | | 2 2 | 1 | 5 |
| Merchant | 3 | | 2 | | 2 | 1 |
| Messenger | | | i | | | |
| Metal planer | | ••• | | .: | | |
| Military officer | 1 9 | | -;- | 1 3 | | 2 |
| Milk purveyor | | | 1 | | 2 | |
| Miller | 1 | -; | | | | |
| | i | 1 | | 1 | | ** |
| Millwright | 1 | | | | ** | |
| Mineral water manufacturer. | . 1 | | | 2 | | |
| | | | .: | 100 | | -: |
| Minister | 1 | | 1 | -: | ** | 1 |
| Missionary | 1 | •• | 2 | 1 1 | | |
| Musician | 1 | • • | 2 | 1 | 2 | |
| Music seller | 1 | | 2 | ** | i | |
| Newsagent | | | | 1 | 1 | *** |
| Nurse | .; | 5 | | 1 | i | 2 |
| Of independent means | 4 | | | | 1 | 1 |
| Organ builder | | | .: | | | 1 |
| Organist | | | 1 14 | 7 | 6 | 4 |
| Painter | 6 | | 14 | | 0 | 4 |
| Paper-hanger | | | | | | i |
| Park superintendent | | | | | | 1 |
| Constitution of the last of th | | 10000 | No. | No. of Contract of | | - |

63
TABLE VII.—Continued.

| | | | - | | | |
|--------------------------|----|------|-------|-----------|------|--------|
| Occupation, &c. | М. | F. | Son. | Daughter. | Wife | Widow. |
| Pattern maker | | | 1 | 2 | | |
| Pavior | | | | | 1 | |
| Damphualian | | | 2 | 3 | - | |
| D . | 6 | | 0.000 | 1000 | i | 2 |
| Dhatamanhan | | i | | | | |
| Diamafanta tuman | | | | i | | •• |
| Dilat | | | | | | |
| DI 4 | 3 | | 1 | 3 | i | 2 |
| TOT () | 1 | | 1 | 1 | | 2 1 |
| DI I | 1 | | 5 | 4 | 1: | |
| | | | 9 | | 1 1 | |
| Police inspector | | | .: | 5 | | |
| Donton | .; | | 4 | 3 | 2 2 | |
| Porter | 4 | | 3 2 | 2 | 1 | 2 |
| Postman | 2 | | 2 | 2 | | •• |
| Potato merchant | 1 | | 1: | *: | | *: |
| Printer | 3 | | 1 | 1 | | 1 |
| Provision dealer | 1 | | | 1 | *: | |
| Purser | *: | | | *: | 1 | *: |
| Quarryman | 1 | | 2 | 1 | .: | 1 |
| Railway servant | 14 | | 23 | 13 | 7 | .: |
| Registrar | | | | •: | | 1 |
| Refreshment house keeper | •• | | | 1 | | |
| Retired broker | 3 | | | | | |
| " car proprietor | 1 | | | | | |
| " comedian | 1 | | | | | |
| " commercial traveller. | 1 | | | | | |
| " confectioner | | 1 | | | *** | |
| " copper refiner | 1 | | | | | |
| " customs officer | 2 | | | | | |
| ,, gamekeeper | 1 | | | | •• | |
| " licensed victualler | | | | | 1 | |
| " milk purveyor | 1 | | | | | |
| " officer | 1 | | | | | |
| ,, overseer | 1 | | | | | |
| " professor of music | 1 | | | | | |
| " secretary | 1 | | | | | |
| " shoemaker | 1 | ** | | | | |
| , sailor | | | | | | 1 |
| Riding master | | | | 1 | | |
| Rivet heater | 1 | | | | | |
| Rivetter | | | 1 | | 1 | |
| Saddler | | | | 3 | | |
| Sailmaker | 1 | | 1 | | 1 | 2 |
| Salesman | | | | 1 | | 1 |
| Sawyer | 1 | | 2 | 2 | | 2 |
| School master | 3 | | 1 | 1 | 1 | |
| School director | | | | | 1 | |
| Seaman | 9 | | 16 | 12 | 8 | 4 |
| Secretary | | | 1 | 1 | | |
| Ship owner | 1 | | | | | 1 |
| | | 1997 | - | | - | |
| | | | | | | |

64
TABLE VII.—Continued.

| Occupation, &c | | | М. | F. | Son. | Daughter. | Wife. | Widow. |
|--|----|--------|---|----|------|-----------|----------------|--------|
| Ship plater Ship rigger Shipsmith Shipwright Shoemaker Shopman Soap boxer Soap manufacturer Soldier Solicitor Stageman Stationer Stevedore Steward Stoker Stonemason Storekeeper Surveyor Tailor Tailoress Tallow chandler Tanner Tea merchant Team owner Tea planter Timekeeper Tin smith Traffic manager Training ship boy Tramcar driver Translater of lang Undertaker Unknown Van driver Waiter Warehouseman | | | M. 1 1 1 4 7 2 2 2 4 2 2 6 1 2 1 8 1 1 4 | F | 1 | 2 1 5 5 | Wife. 1 2 2 1 | 6 5 1 |
| Warehouse owner Watch maker Watchman Water inspector Weaver Weight taker | :: | | 3 | | i | 2 | 2 1 1 | 1 2 |
| Wheelwright White smith Window cleaner Wine merchant Wood carver | :: | :::::: | ··· ··· ··· | | i | 1 2 | i i | 1 |



