

Annual report for the year ending 25th March, 1894.

Contributors

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Roberts, Henry William.
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BOARD OF WORKS

FOR THE

GREENWICH DISTRICT.

Annual Report

FOR THE YEAR ENDING 25th MARCH, 1894.

List of Members of the Board, and of the several Officers and Committee;

Report of Proceedings of the Board;

Reports of Medical Officers;

Statement of Engineer;

„ of Road Surveyor;

„ of Contracts entered into;

„ of Moneys received and expended during the Year; and

„ of Arrears of Calls, and other Moneys and Liabilities of the said Board, on the 25th March, 1894.

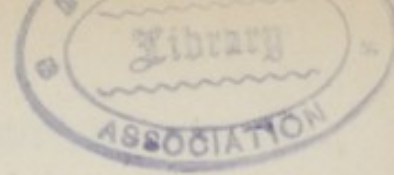
PRINTED BY ORDER OF THE BOARD.

Greenwich :

EDWARD G. BERRYMAN & SONS,

STEAM WORKS, 84, BLACKHEATH ROAD.





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Board of Works for the Greenwich District.

List of the Members and Officers of the Board,
JUNE, 1894.

MEMBERS ELECTED BY THE VESTRY OF GREENWICH.

	NAME.	ADDRESS.
Mr.	FREDERICK GEORGE COX	...12, The Grove, Blackheath
"	THOMAS PERCY EVANS	.....8, Halstow-road
Dr.	RALPH GOODING, B.A., J.P.	.....Heath Lodge, Gloucester-terrace, Blackheath
Mr.	ALEXANDER JEANS	.....5, Church-street
"	WILLIAM THOMAS MANNING	...12, Nelson-street
"	BENJAMIN MITCHELL	.....6, Vanbrugh-hill
"	WALTER NEWTON	.....Hillside, Ulundi-road, Blackheath
Capt.	FRANCIS METCALFE OMMANNEY, R.N.	...24, St. John's-park, Blackheath
Mr.	WALTER RICHARDSON	.....60, Annandale-road
"	WILLIAM STIMSON	.....6, Woodlands-road
"	HENRY TIPPING	.....38, South-street
"	WILLIAM GEORGE WATTS	.....29, Blackheath-road
"	CHARLES HENRY ALLWORTH	57, London-street
"	WILLIAM FOX BATLEY	.....12, Vanbrugh-park, Blackheath
"	WILLIAM CHARLES BIRT	.....38, Devonshire-road
Dr.	GEORGE HUGHES CABLE	.....59, Royal-hill
Mr.	WILLIAM E. FELTHAM	.....58, Royal-hill
"	ROBERT GIBBS	.....Alma-villa, 38, Vanbrugh-hill
"	G. W. GIFFARD HOOPER	.....28, Park-place
"	RICHARD S. JACKSON, L.C.C.	Stobcross Lodge, Crooms-hill
"	DONALD McCALL	.....32, South-street
"	CHARLES OLIVER POOK	.....37, Blackheath-road
"	ALFRED JAMES RANDALL	.....23, Park-place
"	WILLIAM STERNDALÉ SCARR	17, Annandale-road
"	FREDERICK CHARLES BINGHAM	...12, South-street
"	HENRY BRIDEL	.....3, Union Wharf
"	GEORGE DAVIS	.....Belle Vue House, Park-place
"	ALFRED H. GARLICK	.....14, Langdale-road
"	JOSEPH HEATH	.....22, Ashburnham-road
"	CHARLES JOHN HERYET	.....95, Blackheath-hill
"	LEWIS INCLEDON	.....2, West Grove-terrace
Rev.	BROOKE LAMBERT, M.A., B.C.L.	The Vicarage
Mr.	GEORGE LEDGER	.....3, Mycenæ-villas, Mycenæ-road
"	EDGAR SYDNEY	.....9, The Circus
"	GEORGE USHERWOOD	.....St. Clere, Ulundi-road, Blackheath
"	GEORGE CHARLES WHIBLEY	...82, South-street

MEMBERS ELECTED BY THE VESTRY OF ST. NICHOLAS, DEPTFORD.

	NAME.	ADDRESS.
Mr.	JOHN DAVID URRY	.....198, Evelyn-street
"	THOMAS E. ROBERTS	.....2, Wellington-street
"	THOMAS REESON	.....6, Watergate-street
"	GEORGE WARRY	.....4, Watergate-street
"	ARTHUR GOLDING	.....Church-street
"	WILLIAM WALTER LOCKYER	...208, High-street

MEMBERS ELECTED BY THE VESTRY OF ST. PAUL, DEPTFORD (INCLUDING HATCHAM).

NAME.	ADDRESS.
Mr. JOSEPH ALWIN.....	23, Ashmead-road
„ HENRY BARE.....	30, Endwell-road
„ GEORGE BARSON.....	88, Drakefell-road
„ WILLIAM H. BECK	45, Tressillian-road
„ JOHN E. CHILD.....	130, Lewisham High-road
„ HENRY G. DELATOCHE.....	59, Erlanger-road
„ WM. BENJN. EASTAWAY	76, Jerningham-road
„ RICHARD HICK.....	18, Abinger-road
„ BENJAMIN J. JACOB.....	29, Pepys'-road
„ HENRY KEYLOCK, L.C.C	39, Pepys'-road
„ THOMAS LAWRENCE	71, Cranfield-road
„ WILLIAM STEVENSON MORLEY, 279,	Lewisham High-road
„ FREDERICK J. OLDMAN.....	1, Ommanney-road
„ WILLIAM PIERPOINT	71, Lewisham High-road
„ WALTER J. PURVER.....	6, Tyrwhitt-road
„ JAMES G. THOMAS	70, High-street
„ DAVID T. WHIBLEY.....	42, Ashmead-road
„ WILLIAM WRIGHT	72, High-street
„ JOHN VENN YONGE.....	182, Malpas-road
Col. BLAIR ABBOTT	76, Wickham-road
Mr. JOHN ANDERSON	30, Leylang-road
„ BENJAMIN AVERY	24, Lewisham High-road
„ ALEXANDER BEATTIE, R.N.....	57, Pepys'-road
„ SAMUEL J. CLEGG	168, New Cross-road
„ WILLIAM P. COOPER	36, High-street
„ PERCY L. H. DAVIS	95, Cranfield-road
„ CHARLES GALLEHAWK.....	72, Evelyn-street
„ SAMUEL GILES	86, Tyrwhitt-road
„ FREDERIC G. LANDON, M.A.,	
	F.R.A.S., J.P., 59, Tressillian-road
„ GEORGE LEIDIG	48, The Broadway
„ THOMAS DAWSON LENG	232, Evelyn-street
„ GEORGE ROBERT MASON	Lower-road
„ HENRY GEORGE PITT.....	22, Evelyn-street
„ ABRAHAM C. REES	438, New Cross-road
„ SIDNEY SCHOLFIELD.....	42, Evelyn-street
„ WILLIAM T. SMITH	2, Ommanney-road
„ JOSEPH W. WINDRED.....	1, Dixon-road
„ WILLIAM WHEATLEY.....	12, Zampa-road
„ ALEXANDER ANDERSON	9, Penmartin-road
„ JOHN HENRY BULMER	35, Amersham-road
„ JOSEPH FIELD	77, Amersham-road
„ JOHN HAMLYN	5, Jerningham-road
„ BENJAMIN HILLS.....	Regent-street
„ DANIEL HINES	123, Breakspears-road
„ GEORGE KING	166, Queen's-road
„ EDWARD J. KNIGHT	86, Manor-road
Sir SAMUEL S. LEWES	163, Lewisham High-road
Mr. HENRY NUDING	16, Clifton-road
„ GEORGE RICHARDS.....	363, New Cross-road
„ GEORGE SIMMONDS	58, Pepys'-road
„ EDWARD SIMPSON	186B, New Cross-road
„ WILLIAM RICHARD SMITH	19, Tressillian-crescent
„ ROBERT SOPER	158, St. John's-road
„ JAMES STAGG.....	11, Cliff-terrace
„ FRIEND STOW, R.N.	11, St. Donatt's-road
„ WILLIAM WALKER	123, Jerningham-road
„ STEPHEN WINN	423, New Cross-road

OFFICERS OF THE BOARD.

CLERK,

Mr. JAMES SPENCER82, London Street, Greenwich.

TREASURER,

Mr. THOMAS MOTELondon & County Bank, Church
Street, Greenwich.

MEDICAL OFFICER OF HEALTH FOR GREENWICH,

Mr. CHARLES HENRY HARTT80, London Street, Greenwich.

MEDICAL OFFICER OF HEALTH FOR DEPTFORD,

Mr. HENRY WILLIAM ROBERTS166, Lewisham High Road.

ENGINEER,

Mr. JOHN NIDD SMITH85, South Street, Greenwich.

ROAD SURVEYOR,

Mr. JAMES RICHARD HEWARD52, Wickham Road, Brockley.

PUBLIC ANALYST,

Mr. ROBERT HENRY HARLANDPlough Court, 37, Lombard
Street, E.C.

AUDITOR,

Mr. R. HUGH SLOLEY3, King Street, Cheapside, E.C.

ACCOUNTANT,

Mr. F. DUDLEY KEEN138, Lewisham Road, S.E.

ASSISTANT CLERK,

Mr. VIVIAN ORCHARD.....124, Blackheath Hill, S.E.

SANITARY INSPECTORS, GREENWICH,

Mr. CHARLES TURLE WILSON.....37, Burney Street, Greenwich.

Mr. ROBERT FISHER9, King William St., Greenwich.

Mr. ARTHUR E. BACHE7, Park Row, Greenwich.

SANITARY INSPECTORS, DEPTFORD,

Mr. THOMAS BORSBERY.....2, Florence Road, Deptford.

Mr. THOMAS TURNER24, Harcourt Road, Brockley.

Mr. ROBERT D. J. SIMPSON169, Manor Road, Brockley.

Mr. CHARLES WILLIAM NETTLETON, 26, Rokeby Road, Brockley.

Mr. ALFRED PRIEST.....22, Batsford Road, St. John's.

CARETAKER AND MESSENGER,

Mr. SAMUEL SOLE.....Offices of the Board, 141, Greenwich
Road, Greenwich.

COMMITTEES OF THE BOARD.

A Committee for the Parish of Greenwich, consisting of all the Members of the Board elected by the Vestry of Greenwich.

A Committee for the Parish of St. Paul, Deptford, consisting of all the Members of the Board elected by the Vestry of St. Paul, Deptford.

A Committee for the Parish of St. Nicholas, Deptford, consisting of all the Members of the Board elected by the Vestry of St. Nicholas, Deptford.

FINANCE COMMITTEE.

Mr. FREDK. CHAS. BINGHAM	Mr. SAMUEL GILES
„ WILLIAM CHAS. BIRT	„ JOHN HAMLYN
„ LEWIS INCLEDON	„ DANIEL HINES
„ HENRY TIPPING	„ WALTER J. PURVER
„ GEO. CHARLES WHIBLEY	„ WILLIAM RICHARD SMITH
„ JOHN ANDERSON	„ ARTHUR GOLDING
„ ALEXANDER BEATTIE, R.N.	„ JOHN DAVID URRY
„ HENRY G. DELATOUCHE	„ GEORGE WARRY

Mr. FREDERIC GEORGE LANDON (*Ex-Officio*).

DISTRICT COMMITTEE.

Mr. CHAS. H. ALLWORTH	Mr. SAMUEL GILES
„ ALFRED H. GARLICK	„ BENJAMIN J. JACOB
„ CHARLES JOHN HERYET	„ HENRY KEYLOCK, L.C.C.
Capt. F. M. OMMANNEY, R.N.	„ HENRY NUDING
Mr. HENRY TIPPING	„ WILLIAM RICHARD SMITH
„ JOHN ANDERSON	„ ARTHUR GOLDING
„ ALEXANDER BEATTIE, R.N.	„ GEORGE WARRY

Mr. FREDERIC GEORGE LANDON (*Ex-Officio*).

CHAIRMAN OF THE BOARD.

Mr. FREDERIC GEORGE LANDON, M.A., F.R.A.S., J.P.

BOARD OF WORKS
FOR THE
GREENWICH DISTRICT.

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THIRTY-EIGHTH ANNUAL REPORT  
OF THE BOARD,

FOR THE YEAR ENDING THE 25<sup>TH</sup> MARCH, 1894,

*Of the Proceedings of the Board in the Execution of the Acts under which it is constituted, and of the Proceedings taken by its Authority for the Removal of Nuisances, and the Improvement of the Sanitary Condition of the District.*

THE works of Sewerage and Paving completed during the year are specified in the annexed Statements, signed by the Engineer and Surveyor, and Road Surveyor of the Board, respectively.

The statistics relating to the health of the District to the 31st December, 1893, will be found in the accompanying Reports of the Medical Officers of Health.

During the year, amongst other things, the Sanitary Inspectors inspected 6,963 houses. Notices to perform Sanitary

works were served as understated, viz. :—To provide proper and sufficient water supply and water supplying apparatus to and for water closets, 1,216 ; to renew the water supply to water closets, 59 ; to provide proper and sufficient water supply for domestic use, 108 ; to amend, repair and make good defective water fittings, 89 ; to provide new water receptacles, 44 ; to provide proper and sufficient covers to cisterns, 777 ; to cleanse foul and dirty cisterns, 187 ; to amend, repair and make good cisterns, 95 ; to open up, examine, amend, repair and reconstruct drains, 1,265 ; to clear, cleanse and purify drains, 203 ; to properly and sufficiently trap surface inlets to drains with gully traps, 1,474 ; to properly and sufficiently ventilate drains, 183 ; to construct proper and sufficient drains to carry off surface water from yards, 355 ; to construct proper and sufficient drains to carry off surface water from areas, 63 ; to construct proper and sufficient drains to stables, 14 ; to remove soil pipes to approved positions outside water closets, 67 ; to amend and repair soil pipes, 11 ; to properly and sufficiently ventilate soil pipes, 135 ; to properly and sufficiently ventilate water closets, 57 ; to provide proper and sufficient soil pans and traps to and for water closets, 1,148 ; to provide new soil pans to closets, 12 ; to amend and repair defective putty joint to water closet, 1 ; to amend and repair defective flush pipes to water closets, 10 ; to properly and sufficiently trap water closet pans, 10 ; to clear and cleanse foul and dirty water closet pans, 406 ; to amend and repair defective seats and risers of water closets, 132 ; to provide doors to water closets, 5 ; to disconnect sink waste pipes from drains, 622 ; to disconnect rain-water stack pipes from drains, 395 ; to disconnect bath waste pipes from drains, 25 ; to disconnect lavatory

waste pipes from drains, 14 ; to disconnect overflow pipes of cisterns from drains, 2 ; to provide and fix rain-water stack pipes, 41 ; to amend and repair defective rain water stack pipes, 206 ; to amend and repair defective waste pipes, 10 ; to provide and fix eaves guttering, 25 ; to amend and repair defective eaves guttering, 237 ; to amend and repair defective roofs, 160 ; to amend and repair defective flooring, 22 ; to amend and repair defective walls, 34 ; to amend and repair defective ceilings, 35 ; to amend and repair defective water closets, 51 ; to abolish water closets in unfit situations, and to provide proper and sufficient water closets in lieu thereof, 61 ; to abate the nuisance caused by the dampness of walls, 102 ; to abate the nuisance caused by overcrowding, 24 ; to abate the nuisance caused by the keeping of animals, 30 ; to abate the nuisance caused by the issue of black smoke from chimney shafts, 3 ; to provide proper and sufficient ash-pits, 825 ; to amend and repair defective ash-pits, 131 ; to cleanse, limewash and purify premises throughout, 401 ; to amend, repair, cleanse, limewash and purify premises throughout, 489 ; to cleanse, limewash and purify rooms and water closets, 49 ; to cleanse, limewash and purify ceilings, 55 ; to cleanse, limewash and purify walls, 42 ; to pave yards with a hard, durable and impervious material, 1,052 ; to pave forecourts with a hard, durable and impervious material, 47 ; to pave areas with a hard, durable and impervious material, 5 ; to pave stables with a hard, durable and impervious material, 12 ; to provide proper receptacles for dung, 42 ; to remove accumulations of filth and manure, 82 ; to discontinue using underground rooms as living rooms, 8 ; to abolish drain in bakehouse, 1 ; to cleanse, limewash and purify bakehouses, 60 ; to provide proper, suitable and sufficient

accommodation in the way of sanitary conveniences for the use of the workpeople employed in or in attendance at workshops and buildings, 34 ; to make premises fit for human habitation, 48 ; to re-drain houses, 122 ; to abolish cesspools, 16 ; to cleanse and disinfect cesspools, 8 ; to provide proper means of ventilation to houses, 8 ; to cease occupying premises, as a dwelling-house, without water closet accommodation, 1.

During the same period 1,416 rooms and the following articles were disinfected after cases of infectious disease, namely :— 1,205 beds, 2,286 pillows, 822 bolsters, 543 palliasses, 838 mattresses, 801 sheets, 1,206 blankets, and 5,420 odd articles, making 13,121 articles in all. It was found necessary during the same period to destroy 15 articles which had become contaminated by contact with cases of infectious disease.

The above-mentioned Notices were, in most cases, complied with, but proceedings were taken against the owners of four houses in Greenwich for neglecting to execute such works and do such things as were necessary for the purpose of abating the nuisances arising upon the premises, which resulted, in three cases, in the Magistrate making orders for the execution of the required works, which were afterwards satisfactorily carried out ; and in the fourth case, the owner, pending the adjourned hearing of the summons, caused the whole of the required works to be executed to the satisfaction of the Board's Inspector.

Proceedings were also taken against the owner of a house, and the occupiers of two other houses, in the Parish of Greenwich, for neglecting to abate the nuisances arising upon those premises, and the Magistrate made orders prohibiting the use

of such houses for human habitation, and the premises were closed. In addition to making the Closing Order, the Magistrate also fined the owner above referred to the sum of £2. \*

Proceedings were also taken against two persons for unlawfully removing or carrying by road through certain streets in the district faecal or offensive or noxious matter contrary to the bye-laws made by the London County Council, under Section 16 of the Public Health (London) Act, 1891, and fines were inflicted, amounting together to £2.

Proceedings were also taken against the owners of six newly-erected houses in the Parish of Greenwich, for permitting those houses to be occupied as dwelling-houses without it having been certified by the Sanitary Authority that such houses had a proper and sufficient supply of water from a Water Company, or by some other means, and fines were inflicted, amounting, in the whole, to £3 15s.

The Medical Officer of Health for Deptford having represented to the Board, under the provisions of the Housing of the Working Classes Act, 1890, that Nos. 1, 2, 3, 4, 5, 6 and 7 on the northern side of Martha Place, in the Parish of Saint Paul, Deptford, were in a state so dangerous or injurious to health as to be unfit for human habitation, the Board caused notices to be served requiring the owner, within fourteen days from the service of the notices, to make such houses fit for human habitation, and the owner failing to comply with such notices, proceedings were taken against her, and the Magistrate made an order prohibiting the using of the premises for the purposes of human habitation until,

in his judgment, they were rendered fit for that purpose. Under this order the whole of these houses were closed.

The Medical Officer of Health for Greenwich also made representations under the same Act with reference to Nos. 2, 4, 6, 8, 10, 12, 14 and 16, Cold Bath Street, to Nos. 59, 61, 73, 75, 77 and 79, Church Street, to No. 12, Trinity Street, and to Nos. 6, 7 and 8, Wood Wharf, all in the Parish of Greenwich, and notices being served, the owners of the premises voluntarily closed them, and the houses referred to in Cold Bath Street, and the house in Trinity Street, were subsequently pulled down.

Proceedings were taken against a lad for unlawfully damaging a tree in the St. Alphage Recreation Ground, also for throwing stones so as to endanger the public in that Ground, and for the first offence he was fined 6d., and ordered to pay 1s. for damage and 2s. costs, and for the second he was fined 6d. and 2s. costs.

During the year Mr. Arthur Bache was appointed as an additional Sanitary Inspector for the Parish of Greenwich, and Mr. Charles William Nettleton as an additional Sanitary Inspector to act in the Parishes of Saint Paul and Saint Nicholas, Deptford ; and Mr. Charles Turle Wilson, who was originally appointed an Inspector of Nuisances for the Parish of Greenwich, under the provisions of the Metropolis Management Acts and the Nuisances Removal Acts, and Mr. Thomas Turner, who was similarly appointed as an Inspector of Nuisances for the Parish of Saint Paul, Deptford, were re-appointed as Sanitary Inspectors for those Parishes, respectively, within the meaning of the Public Health (London) Act, 1891.

Two of the Sanitary Inspectors for the Parish of Saint Paul, Deptford, were, for the purpose of enabling them to get about that Parish with more expedition, and so carry out their duties with greater advantage, provided the one with a tricycle and the other with a bicycle.

During the year the premises in East Street, Greenwich, acquired by the Board for the purpose of providing shelter and accommodation for the temporary use of such inhabitants of the district as might be compelled to leave their dwellings for the purpose of enabling such dwellings to be disinfected by the Sanitary Authority, were prepared and furnished for the reception of persons requiring the temporary use of them, and have been so used by three families.

During the year the Board made Bye Laws, under the provisions of the Public Health (London) Act, 1891 :—

- (a) For the prevention of nuisances arising from any snow, ice, salt, dust, ashes, rubbish, offal, carrion, fish, or filth, or other matter or thing in any street ;
- (b) For preventing nuisances arising from any offensive matter running out of any manufactory, brewery, slaughter-house, knacker's yard, butcher's or fish-monger's shop, or dunghill, into any uncovered place, whether or not surrounded by a wall or fence ;
- (c) For the prevention of the keeping of animals on any premises in such place or manner as to be a nuisance or injurious or dangerous to health ;



(*d*) As to the paving of yards and open spaces in connection with dwelling-houses ;

(*e*) For securing the cleanliness and freedom from pollution of tanks, cisterns, and other receptacles used for storing of water used or likely to be used by man for drinking or domestic purposes, or for manufacturing drink for the use of man.

(*f*) With respect to the keeping of water closets supplied with sufficient water for their effective action ;

and such Bye Laws, having been duly confirmed by the Local Government Board, are now in operation throughout the district.

The Board, at its meeting on the 23rd June, 1893, passed resolutions directing that an application be made to the London County Council, requesting that steps might be taken to obtain such an amendment of the London Council (General Powers) Act, 1891, as would enable the Board to charge the contribution of this Board to the formation of the New Street between Evelyn Street and Creek Road, Deptford, as follows :— One-third upon the Parish of Saint Nicholas, Deptford, and the remaining two-thirds upon the Parishes of Greenwich and Saint Paul, Deptford, in proportion to the respective rateable values of those two Parishes ; and ordering the Common Seal of the Board to be affixed to the following consent :—“That this Board hereby  
“consents that the said New Street from Evelyn Street to Creek  
“Road, Deptford, shall be commenced by the London County  
“Council immediately after the said amendment is made,” and the London County Council is now taking action to obtain the amendment above referred to.

During the year, the Sanitary Inspectors collected, and the Public Analyst analysed, 190 samples, consisting of the following articles :—

|                  |     |     |     |     |     |             |
|------------------|-----|-----|-----|-----|-----|-------------|
| Butter           | ... | ... | ... | ... | ... | 83          |
| Milk             | ... | ... | ... | ... | ... | 65          |
| Mustard...       | ... | ... | ... | ... | ... | 10          |
| Pepper           | ... | ... | ... | ... | ... | 10          |
| Rum              | ... | ... | ... | ... | ... | 6           |
| Gin              | ... | ... | ... | ... | ... | 5           |
| Coffee           | ... | ... | ... | ... | ... | 4           |
| Vinegar          | ... | ... | ... | ... | ... | 2           |
| Liquorice Powder | ..  | ... | ... | ... | ... | 2           |
| Lard             | ... | ... | ... | ... | ... | 1           |
| Oatmeal          | ... | ... | ..  | ... | ... | 1           |
| Sweets           | ... | ... | ... | ... | ... | 1           |
|                  |     |     |     |     |     | <hr/>       |
|                  |     |     |     |     |     | 190         |
|                  |     |     |     |     |     | <hr/> <hr/> |

Proceedings were taken with respect to twenty-one samples of Butter, certified to be admixed with foreign fat, not butter, and fines were inflicted, amounting in the whole to £39 10s. Proceedings were also taken against a person for unlawfully exposing for sale by retail, a parcel of Margarine, without there being attached to such parcel a label bearing the word "Margarine," and he was fined 5s.

Proceedings were also taken with regard to nine samples of milk, certified to be adulterated, and penalties were imposed, amounting together to £32 15s.


Proceedings were also taken against the seller of a sample of Coffee, which was certified to be admixed with Chicory, and he was fined £1.

During the year, there were 27 Ordinary and Special Meetings of the Board, and the undermentioned Committees and Sub-Committees held meetings as follows :—

|                                                                                                                                                                             |     |     |     |    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|----|
| Finance Committee                                                                                                                                                           | ... | ... | ... | 26 |
| Greenwich Committee                                                                                                                                                         | ... | ... | ... | 22 |
| Saint Paul, Deptford, Committee                                                                                                                                             | ... | ... | ... | 22 |
| Saint Nicholas, Deptford, Committee...                                                                                                                                      | ... | ... | ... | 8  |
| District Committee                                                                                                                                                          | ... | ... | ... | 7  |
| Joint Committee appointed to consider the applications received for the appointment of Sanitary Inspector to Act in the Parishes of Saint Paul and Saint Nicholas, Deptford | ... | ... | ... | 2  |
| Special Committee appointed to consider the whole question involved in Mr. Jackson's motion with reference to the division of the District                                  | ... | ... | ... | 1  |
| Works and General Purposes Sub-Committee                                                                                                                                    | ... | ... | ... | 30 |
| Saint Paul, Deptford, Sanitary Sub-Committee                                                                                                                                | ... | ... | ... | 24 |
| Greenwich Yard Sub-Committee                                                                                                                                                | ... | ... | ... | 24 |
| Greenwich Quarterly Accounts Sub-Committee...                                                                                                                               | ... | ... | ... | 4  |
| Greenwich Viewing Sub-Committee                                                                                                                                             | ... | ... | ... | 2  |
| Sub-Committee appointed to consider as to the practicability and cost of widening the roadway in front of Greenwich Hospital, to a fifty feet road ..                       | ... | ... | ... | 3  |
| Sub-Committee appointed to consider the desirability of establishing a Dust Destructor for the Parish of Greenwich                                                          | ... | ... | ... | 2  |

Making a total of 204 meetings during the year.

REPORT  
OF THE  
MEDICAL OFFICER OF HEALTH  
FOR  
GREENWICH.



*To the Greenwich District Board of Works.*

GENTLEMEN,

I have the honour to present to you my Eleventh Annual Report for the 52 weeks ending December 30th, 1893.

I have to report that 1,820 Births (930 Males and 890 Females) were registered in the Greenwich District, details of which appear in the tabulated form No. 1.

The number of Deaths was 1,586 (832 Males and 754 Females) equivalent to an annual rate of 26·4 per 1,000 persons living (including the Greenwich Union and Infirmary, the Seamen's, Miller and Cottage Hospitals, the Royal Naval College, and Greenwich Hospital Schools and the outlying Public Institutions), and 16·2 excluding these Public Institutions, details of which appear in the tabulated form No. 2.

The number of Deaths from the principal Zymotic Class was 187, equivalent to an annual rate of 3·1 per 1,000 persons living, details of which appear in the tabulated form No. 3.

The Births were 1,820, being (234 in excess of the number of Deaths), equivalent to an annual rate of 30·3 per 1,000 persons living, details of which appear in the tabulated form No. 4.

Table No. 5 will show the comparative Death Rate per 1,000 (excluding Hospitals and Schools), for the past ten years.

Table No. 6 will show the comparative Death Rate per 1,000 from Diseases of a Zymotic Type for the last ten years.

Table No. 7 will show the Population and Births and Deaths, in Registration Districts during the 52 weeks of 1893.

Table No. 8 will show the number of cases of Infectious Disease reported to me under the provisions of the Public Health (London) Act, 1891, during the 52 weeks ending 1893.

Table No. 9 will show the number of cases of Infectious Disease notified to the Metropolitan Asylums Board by the several Medical Officers of Health of the Metropolis, under the provisions of the Public Health (London) Act, 1891, in the 52 weeks ending 1893.

Table No. 10 will show the number of Articles and Rooms disinfected from March 25th, 1893, to March 25th, 1894.

Table No. 11 will show the number of articles destroyed during the same period.

Table No. 12 will show the number of houses inspected with



inquiries in connection with Infectious Diseases, from March 25th 1893, to March 25th, 1894.

Table No. 13 will show the work of Inspection from March 25th, 1893, to March 25th, 1894.

Table No. 14 will show the Improvements effected during the same period.

### INFLUENZA.

I regret to state that a very severe and fatal Epidemic of Influenza commenced in this district in the beginning of December, and lasted for about six weeks.

It would be impossible for me to estimate the number of cases which occurred (as this disease is not one of those which has to be notified under the Public Health (London) Act, 1891), but from personal knowlege, and from information given to me by the different Medical Practitioners in the town, it would appear to have been very prevalent, and as fatal as the previous Epidemics.

In all, there were twenty-eight deaths from Influenza (as a first cause), registered during the year, as compared with thirty-three in 1892, and in addition a very considerable increase in the number of deaths from diseases of the respiratory and circulatory organs (viz., Bronchitis, Pneumonia, and Failure of the Heart), which proves that there is an influence at work which has the power of making those diseases more fatal than at ordinary times.

Reference to Table No. 1 will show the increase in the

number of deaths from diseases of the Respiratory and Circulatory systems during the month of December, 1893.

The following Report was made to the Board when the Epidemic was at its height.

### REPORT ON INFLUENZA.

*November 29th, 1893.*

“ I beg to report that another serious outbreak of Epidemic Influenza has occurred in the Greenwich District (in common with other parts of the country), and in consequence, a large number of people are suffering from its effects, and especially from Bronchitis and Pneumonia.

“ Sporadic cases occurred during the early part of November, but it was not till the present week that it became general in all parts of the district.

“ It may be interesting to the Members of the Board to be reminded that the first outbreak of Epidemic Influenza (since 1847), occurred in the latter part of December, 1889, and of the month of January, 1890. The second outbreak in the months of May and June, 1891. The third outbreak in January, 1892, all of which lasted about six weeks.

“ The present Epidemic may be said to be entering its sixth week.

“ I hope, and believe that the present Epidemic has reached its height, and is now declining, although many are suffering from the complications which arise during the process of the disease.

“The prevalence of Epidemic Influenza has had the effect of very largely increasing the death rate, as shown by the returns of mortality presented to-night.

“The following figures show the number of deaths from all causes, which have occurred during the six weeks of the respective Epidemics of 1890, 1891, 1892 and 1893.

|                                            |                                |     |     |
|--------------------------------------------|--------------------------------|-----|-----|
| 1890—Deaths from all causes, for six weeks |                                |     |     |
|                                            | ending February 8th            | ... | 217 |
| 1891                                       | ditto ending June 6th          | ... | 223 |
| 1892                                       | ditto ending January 30th      | ... | 280 |
| 1893                                       | ditto ending January 6th, 1894 |     | 259 |

“Deaths certified from Influenza as a first cause—1890, 4 ; 1891, 44 ; 1892, 21 ; \* 1893, 28.

“Deaths from diseases of the Heart and Chest, including Phthisis, Pneumonia, and Bronchitis, occurring in six weeks of each Epidemic—1890, 115 ; 1891, 89 ; 1892, 165 ; 1893, 114.

“The following account is copied from the Registrar General’s Annual Summary :—

““The deaths attributed directly to Influenza numbered 1,526 in the year 1893, having been 652 in 1890, 2,336 in 1891, and 2,264 in 1892 ; while the average in the ten preceding years 1880-89, had not exceeded 6·3. As in the preceding three years, the deaths from Pneumonia were again largely in excess of the average, and it is probable that to this cause have been assigned many deaths which were really due to Influenza. The deaths from Influenza in the first quarter of the year numbered 356, in

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\* This number was afterwards increased to 33 for the year 1892.

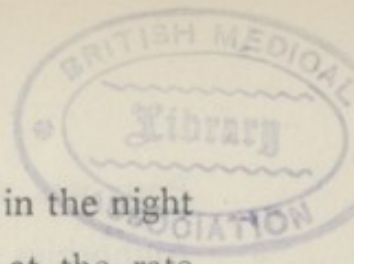


the second quarter 354, in the third quarter 84, and in the fourth quarter 732, of which 546 were registered in the last four weeks of the year.

*February 3rd, 1893."*

The following account of the Epidemic which visited this country in 1847, is copied from the late Dr. Farr's Report upon Influenza :—

"Notwithstanding the continued prevalence of Typhus and Scarlatina, the deaths in the last week of October were only 945, *one person died of Influenza*, 36 of Bronchitis, and 62 of Pneumonia. In the following weeks ending November 20th, the total deaths were 1,052, 1,098, 1,086, of which 2, 4, and 4, *were by Influenza*; 40, 58, and 61 by Bronchitis; 68, 79, and 95 by Pneumonia. The wind had generally been blowing S.S.W. and S.W. since the first week of October, the weather was unusually warm, a brilliant Aurora was observed and shook the magnets on October the 24th. It appeared eight times during the quarter. On Tuesday, November the 16th there was a remarkable darkness, the wind changed to N.W., and amidst various changes still blew from the north over Greenwich at the rate of 160 and 250 miles a day. The mean temperature of the air suddenly fell from eleven degrees above to ten degrees below the average. On Monday it was 54°, Friday 32°, the air on Friday night was 27°, the earth was frozen, the wind was calm three days, and on Saturday evening a dense fog lay over the Thames and London for the space of five hours. No electricity stirred in the air during the week. All was still, as if Nature held her breath at the sight of the destroyer come forth to sacrifice her children. On Sunday



the sky was overcast, the air damp, the wind changed in the night to S. by E., and passed for four days over Greenwich at the rate of 200 and 300 miles daily. The temperature suddenly rose and remained from 2 to 9 degrees above the average through the week ending November 27th, when the deaths of 1,667 persons were registered in London.

*"Influenza was Epidemic.* In the first week of December, 2,454 persons died. In the week following, 2,416 persons died. The deaths in the weeks ending Saturday, December the 18th, 25th, and January 1st were 1,946, 1,247, and 1,599. 11,339 persons died in six weeks, and altogether the Epidemic carried off more than 5,000 souls over and above the mortality of the season. The Epidemic attained the greatest intensity in the second week of its course, raged with nearly equal violence through the third week, declined in the fourth, and then partly subsided, but the temperature falling, the mortality remained high, not only through December, but through the month of January."

#### CHOLERA IN 1892.

\* During the latter part of August, 1892, this country was much startled by the intelligence that a serious outbreak of Asiatic Cholera had occurred at Hamburg, and it was thought that the disease would, in all probability, spread to England by means of passengers, more especially by the importation of the destitute pauper aliens from Hamburg and other parts; but thanks to the prompt measures taken by the Local Government Board, the disease did not make any headway.

Under an "Order," which applied to all ships infected with Cholera, no alien of the class indicated which arrived in English

Ports was allowed to land until they had furnished the proper Authorities with their full name, destination, and precise address, so they could be traced and kept under observation for such time as might be judged sufficient. After this, it was necessary that they must satisfy the Medical Officer of Health of their freedom from any suspicion of choleraic disease before they were allowed to leave the ship.

On August 25th, a circular letter from the Local Government Board was sent to all the Local Sanitary Authorities, calling their attention to the necessity of being prepared for the appearance of this disease in their district, and in that event to issue their regulations as per Section 82 of the Public Health (London) Act, 1891, which would impose on the Local Authorities the necessity of making provision for the prevention and treatment of the disease.

A few cases of Cholera were landed at Gravesend, which rapidly proved fatal, whilst others were detained and kept under observation till all suspicious symptoms had disappeared, and these were only allowed to land after giving their names and addresses.

The Medical Officer to the Port of London furnished me with a memorandum, as below, of every person landing in Greenwich from an Infected Port, which necessitated a visit immediately after the certificate was received.

PORT SANITARY OFFICES.

GREENWICH, S.E.

.....1893.

*To the Clerk, Sanitary Authority.*

SIR,

I have to inform you that the following passengers have arrived

in apparently good health by the                      from                      , and are proceeding to your District, giving the following addresses.

W. COLLINGRIDGE,  
*Port Medical Officer.*

### CHOLERA IN 1893.

During the winter of 1892, the epidemic of Cholera declined, but did not wholly disappear in any part of Europe where it had previously prevailed.

In January, cases were reported from Russia, from Hamburg, and Halle, in Germany; from France, Holland, Galicia, and Hungary.

In England, the first case that attracted attention was that of a man who arrived in the Tyne from Nantes, on June 25th, on board the "Myrtle Branch," who died of Cholera the same day.

On July 17th, a case arrived at Gravesend from Marseilles, and two days later, two more cases arrived at Cardiff from the same port.

On August 24th, a boy was taken ill suddenly in Hull and died with all the symptoms of Cholera, and on August 30th, a suspicious case occurred at Grimsby, which was afterwards confirmed by bacteriological examination.

On September 7th, a case was reported from Doncaster as having occurred on the receipt of a consignment of oysters from Cleethorpes, near Grimsby. On the 9th, another occurred at Leicester, and again oysters from Cleethorpes were concerned.

During September and October, cases were reported from 26

different towns in England. I am happy to state that in Greenwich we escaped altogether. In other parts of the Metropolis there were four fatal cases.

On September 5th, a case at Westminster attracted great attention because the patient happened to be a sweeper in the House of Commons. She died on September 6th, and a bacteriological examination was made, and drew from Dr. Klein the explicit declaration that in his opinion the case was one of true Asiatic Cholera.

It was followed by a fatal case on September 11th, at Fulham Workhouse, and on the 12th, a third case occurred in Kennington Road, Lambeth, and on the 26th, a fourth at Southwark.

The undoubted cases of Cholera in London, therefore, were as follows :—

|    | Date of Death. |     |     | Locality.    |
|----|----------------|-----|-----|--------------|
| 1. | September 6    | ... | ... | Westminster. |
| 2. | „ 11           | ... | ... | Fulham.      |
| 3. | „ 12           | ... | ... | Lambeth.     |
| 4. | „ 26           | ... | ... | Southwark.   |

The Medical Officer of the London County Council having written to me to ask “whether anything had been done to place this District in a state of preparedness against a possible outbreak of Cholera during the Summer of 1893,” I submitted the following Report to the Greenwich Committee of the Board of Works :—

*“ To the Greenwich Committee of the Board of Works for the Greenwich District.*

“ Gentlemen,

“ In accordance with your instructions, I beg to submit the

following Report upon the precautions which should be taken by the Sanitary Authorities, in order (so far as is possible) to prevent the spread of Cholera, in case it should become epidemic in this District.

“It will be within the recollection of the Members of the Board that during last Autumn several cases of Cholera were reported as having been landed in this country, but owing to the vigilance and great precautions taken by the Port Medical Officers the disease was principally confined to the ‘first line of defence.’

“If these precautions had not been taken, there can be no doubt that a very serious outbreak would have occurred, at a time when the several Sanitary Authorities throughout the Metropolis were unprepared to meet such an emergency, and it is in order to meet any further outbreak during the coming summer that I beg to make the following recommendations, should Cholera become epidemic.

“That the town should be divided into four districts, and that the District Medical Officers should be asked if they will undertake the visitation of the poorer houses, for the purpose of detecting Cholera and Diarrhoea, and attendance on those cases that are too ill to be removed to Hospital, and that a corresponding number of Chemists be asked to undertake the supply of Medicines as ordered by the District Medical Officers.

“That a plentiful supply of Disinfectants be kept in stock for distribution, should occasion require.

“That leaflets be issued, containing simple instructions to be observed by the people for the prevention of the disease, by

attention to cleanliness, both in regard to cisterns, ash-pits, water-closets, &c.

“ That the Public Urinals, Courts and Alleys be flushed with Disinfectants frequently.

“ That Fruit, Fish, Vegetable and Provision Shops be visited frequently, for the purpose of detecting food which is either unsound or unfit for consumption.

“ That disinfection be carried out by the Inspector at the earliest possible moment after any case of Cholera has been reported and removed to Hospital, and that in the event of a *death from Cholera*, the friends be advised to have the body buried with all possible despatch, taking such precautions as may be deemed necessary by the Medical Officer of Health.

“ It is quite evident that in the event of Cholera becoming epidemic in the Metropolis, the Metropolitan Asylums Board will be unable to admit Cholera patients, as they have only just a sufficient number of beds to accommodate ordinary Zymotic Diseases, and, besides, it is considered bad treatment to remove Cholera patients to any distance, therefore the onus of providing Hospital accommodation will fall upon the Sanitary Authorities.

“ I have made some enquiry respecting the number of beds that could be obtained for Cholera cases, and I find that at the Greenwich Union Infirmary 56 can be provided, 28 for males, and 28 for females, but this number will be for Greenwich and Deptford; and at the Seamen's Hospital, 30 beds, but these latter will be reserved for the use of seamen.

“The Metropolitan Asylums Board will undertake the removal of the infected persons from their homes to the district Hospitals by means of litters, and these litters will be accompanied by trained bearers.

“Mr. Shirley Murphy, Medical Officer of the London County Council, has written to me respecting sites for Hospitals, thus :—

“‘If it occurs to you that the Council could give any assistance to your Authority by affording facilities for the erection of Hospitals on any land in the Council’s possession, or in any other way, you will doubtless inform me.’

“In making the above recommendations, I wish the Committee to understand that some of the suggestions are only in case of a severe epidemic, but it is better to be ready beforehand than to be unprepared when an outbreak does occur.

“I strongly recommend that the leaflets should be printed for circulation, as soon as possible, so as to rouse the people to the importance of observing more strictly all those measures which are so necessary for the preservation of the public health.

“I remain,

“Your obedient Servant,

“CHARLES H. HARTT,

“*Medical Officer of Health.*

“February 23rd, 1893.”

#### REPORT ON THE EPIDEMIC AT GREENWICH WORKHOUSE.

During the month of October a very remarkable outbreak of



illness occurred at the Greenwich Union Workhouse, which had the appearance at first of being *true Asiatic Cholera*.

There were upwards of 260 cases and eleven deaths.

On October 18th I submitted the following report on the outbreak :—

“ I beg to report that a sudden and remarkable outbreak of illness has occurred at the Greenwich Union Workhouse during the past ten days.

“ The first two cases that were recognised occurred at about four o'clock a.m. on Monday, October 9th, in two different blocks of the Workhouse.

“ The symptoms are characterized by *vomiting*, diarrhoea, cramps in the feet and legs, and collapse.

“ There have been more females attacked than males.

“ The cases that have occurred within the last few days are of a milder type than the first.

“ In all, there have been over 200 cases, and nine deaths (including the case of the woman who left the Workhouse on Tuesday, October 10th, and died in the Parish of Lambeth.)

“ Post-mortem examinations have been made by Drs. Burney and Keats, in the presence of Dr. Bulstrode and myself, without revealing anything in particular which can throw light upon the cause of the disease. The viscera have been forwarded to Dr. Klein for bacteriological examination.

“ I have visited the Workhouse daily, and consulted with

Drs. Down and Bulstrode, of the Local Government Board, as to the advisability of adopting any special measures for protecting the public health.

“The water which is used for domestic purposes, is drawn from a well situated in one of the courtyards of the Workhouse, is now undergoing examination, both chemical and bacteriological, and will be reported upon in a few days.

“There is an old brick drain running through the courtyard, within fourteen feet of the well, which has been opened, and is now being tested with a view to find out whether leakage has occurred.

“Meanwhile, proper sanitary measures are being taken to protect the health of the inmates.

“The water of the Kent Water Company is now being used in place of the well water, and the drains have been well flushed with carbolic and sulphurous acids.

“There is no evidence of any great amount of Diarrhoea existing in the district outside the Workhouse.

“I have taken the precaution of having samples of water drawn from the Pump in the Market, and also from the Baths and Wash-houses, in order to have them forwarded for analysis.

“The health of the district has not been affected by the outbreak in the Workhouse, and I believe that, so far as that Institution is concerned, the worst is over.

“(Signed) CHARLES HENRY HARTT,

“*Medical Officer.*

“October 18th, 1893.”

Since writing the above Report, I have received the following Official Statement from the Local Government Board, the result of Dr. Klein's examination :—

“ Whilst microscopically there is much resemblance between the organisms found and the ordinary ‘comma bacilli,’ yet cultivations have in all cases failed to respond to the tests for true Cholera, hence Dr. Klein assumes that the material sent to him have not been derived from cases of Asiatic Cholera.”

After a long and exhaustive enquiry by the Coronor, aided by the Officials of the Local Government Board (including Drs. Bulstrode and Klein), the Jury returned a verdict “That death was due to INFECTIVE DIARRHŒA, and added a rider to the effect that the Coronor should have been allowed a free hand in dealing with the viscera, and that, as there was no evidence that the epidemic was not caused by the well water, the Workhouse well should be permanently closed.”

The evidence of Drs. Bulstrode and Klein is given, *in extenso*, below.

“ Dr. Bulstrode, of the Local Government Board, expressed the opinion that the epidemic was that of an infectious disease. He had ascertained that there had been, antecedently to the outbreak at the Workhouse, cases manifesting similar symptoms outside the Workhouse, in Greenwich. In his opinion the disease was introduced from outside, but he could not trace the medium. He was of opinion that the epidemic was not due to the Workhouse water. The conclusion at which he had arrived was that it was a form of infectious Diarrhœa, which was shown bacteriologically not

to have been Asiatic Cholera, but which, having regard to its distribution in Greenwich, and to its seasonable incidence, was probably related to those forms of diarrhoeal sickness that especially tend to prevail in seasons when Cholera is prevalent in Europe."

"Dr. Klein said he had received materials from the viscera of the deceased persons, and had made a bacteriological examination. He had come to the conclusion that the disease was not Asiatic cholera. In all the materials there was a microbe present, which, not occurring under ordinary conditions in normal intestines, might possibly be connected with the disease from which the persons died. If he had to give a certificate of death in these cases, he should say 'Infective Diarrhoea.' The water from the Workhouse contained microbes not found in wholesome drinking water, and was such as ought to be condemned for drinking purposes. The Infirmary water was satisfactory. The water did not contain the microbe which he found in the viscera of the deceased persons. That microbe was, as far as he knew, peculiar to this outbreak."

As a result of the enquiry, the Workhouse in future will be supplied with water from the Kent Waterworks Co., and an entire new system of Drainage is now in process.

### ZYMOTIC DISEASES.

I stated in my Annual Report of 1888-9, that it was customary to regard the absence or prevalence of disease of a Zymotic type as a test of the Sanitary condition of a district, and I was justified in congratulating the Board upon the satisfactory state of the

Parish of Greenwich, as the Death Rate amounted to only 1·6 per 1,000 from that class of disease.

This year the Death Rate amounts to 3·1 per 1,000 as against 2·3 of last year.

SCARLET FEVER. Last year there were 417 cases of Scarlet Fever reported in the Greenwich district, 80 of which occurred during the first two weeks in April. Twelve proved fatal.

This year (1893) shews a considerable decrease in the number, there being only 302, of which 13 were fatal.

ENTERIC OR TYPHOID FEVER. Last year there were 55 cases of Enteric Fever reported and 13 deaths. This year the number is reduced to 39, the fatal cases being 17.

ERYSIPELAS shows an increase of 18 cases compared with that of last year. 1892—122 cases. 1893—140.

MEASLES. This disease used to be looked upon as one of the most simple of the Zymotic class, but of late years the complications (principally of the Respiratory Organs) arising therefrom have been so numerous as to suggest that it is more fatal than Scarlet Fever.

There were 27 deaths from Measles and its complications in 1893, against 43 last year.

In the opinion of many Medical Officers of Health, Measles should be reported under the Public Health (London) Act, 1891, in the place of Erysipelas.

DIPHThERIA AND MEMBRANOUS CROUP. I regret to report

there has been a very considerable increase in the number of cases of Diphtheria, not only in the Greenwich District, but over the whole of the Metropolis. Last year there were 43 cases only reported, and 9 deaths. This year 170 cases and 51 deaths. The greatest number (36) occurred in October, and the smallest (4) in February. It is difficult to state the cause of so large an increase. The subject is receiving marked attention from scientific men.

It is strange that whilst formerly it was more prevalent in the rural districts, now it appears to affect the urban most. Dampness and stagnant water appear to be the chief causes, and it is largely spread by means of School influence.

In the Greenwich District most of the cases were confined to young children of school age. Some years ago this disease used to be confined to the eastern part of the Parish, especially in the Marsh district, but this year it has visited every part. I believe that, owing to the highly infectious character of this disease, it is largely spread in Schools, and an example of that kind occurred quite recently, in which a large number of cases were traced to a particular School in the district, and it was not till the School was closed that the number of cases diminished.

The following extract is taken from the Registrar-General's Annual Summary :—

“The deaths attributed to *Diphtheria* numbered 3,265, and were in the proportion of 0·76 per 1000 living, this being by far the highest rate yet recorded, and exceeding the average in the previous decennium by no less than 0·46 per 1000. The

mortality from this disease, which for several years has shown a tendency to increase, had been in the last four years, respectively, 0·33, 0·34, 0·46, and 0·76 per 1000. The deaths from Diphtheria and Croup, taken together, amounted in 1893 to 3,482, while the average number in the preceding decennium, corrected for increase of population, had not exceeded 1,861. Distribution of the London Hospital deaths to their appropriate sanitary areas, shows the East group of these areas to have suffered the highest Diphtheria mortality, viz., 1·00 per 100, the Central group coming next with a rate of 0·82, then the North and South groups with a rate of 0·73 in each case, and lastly the West group with a rate of 0·52.”

**WHOOPIING COUGH.** Reference to table No. 3 will show that 30 children died from this disease in the District, being a decrease of 1 over last year. Whooping Cough is a disease peculiar to young children, and it is difficult to suggest any particular Sanitary measures which, in the absence of isolation, would tend to lessen its spread.

**INFANTILE DIARRHŒA.** There were 40 deaths from this disease, being an increase of 10 over last year. Seven of these were registered as Choleric Diarrhœa, but, upon enquiry of the Medical Attendants it was found that the deaths were from Infantile Diarrhœa. This disease is accelerated by bad feeding and it is most fatal during the hot weather, and more especially so during the period of Dentition.

**SMALL POX.**—On February 1st, I had occasion to report that five cases of Small Pox had occurred in the District, two of which were sailors who had come from the Docks to be treated at the Seamen’s Hospital.

The other three cases occurred in Blackwall Lane, and were the means of spreading the disease to the surrounding streets.

Mrs. —, who was vaccinated in infancy, appears to have taken the disease first, and had such a mild attack that she did not recognize it, and went about her work as usual.

In a short time two of her young children (who were unvaccinated) took it, and it was not till they were far advanced in confluent Small Pox that she sent for a doctor.

These cases were at once removed to Hospital, and one of them died the next day.

In a short time 75 cases were reported as occurring in the streets adjoining Blackwall Lane, principally amongst children attending the Board School in that locality, many of which could be traced to the Blackwall Lane cases.

I at once communicated with the Medical Officer to the London School Board, and during the Easter holidays the School was fumigated by the disinfector.

I also notified every case to the Board of Guardians through their Vaccination Officer, and also examined many of the school children to see if they had been vaccinated during infancy.

In one School alone I found 34 children, and in another 27, without any visible mark of Vaccination.

It was found that, in the majority of cases, the unvaccinated child first contracted the disease, and then brought it home and infected the other members of the family, many of whom had been vaccinated. These latter cases were of a mild type.



The necessary Sanitary precautions were observed in every case by Inspection, Disinfection, Destruction of Bed, Bedding, &c., and the serving of Notices to abate Nuisances.

Under the Public Health (London) Act, 1891, the following diseases are scheduled :—

Scarlet Fever, Diphtheria, Membranous Croup, Small Pox, Cholera, Erysipelas, and Puerperal, Typhus, Enteric, and Relapsing Fevers.

Under this Act it is compulsory for the Medical Attendant and the householder (in which the case occurs) to notify to the Medical Officer of Health of the District immediately upon the outbreak of any of the above diseases.

Reference to Table No. 8 will show the number of cases reported during the year.

#### GENERAL REMARKS.

The following houses (23 in all) have been either closed or demolished during the year, owing to their being unfit for human habitation :—

|                                                 |               |
|-------------------------------------------------|---------------|
| 6, 7, and 8, Woods Wharf ;                      | } Closed.     |
| 59 and 61, Church Street ;                      |               |
| 12, Stockwell Street ;                          |               |
| 2, 4, 6, 8, 10, 12, 14 & 16, Cold Bath Street ; | } Demolished. |
| 73, 75, 77, and 79, Church Street ;             |               |
| 61, 63, and 65, Marlborough Street ;            |               |
| 6, Stockwell Street ;                           |               |

OAK HOUSE, EAST STREET. Under Section 60, Sub-section

4, of the Public Health Act, 1891 :—“The Sanitary Authority shall provide, free of charge, temporary shelter or house accommodation, with any necessary attendants, for the members of any family, in which any dangerous infectious disease has appeared, who have been compelled to leave their dwellings for the purpose of enabling such dwellings to be disinfected by the Sanitary Authority.”

The above house was purchased by the Board for the use of the Greenwich District (which includes the Parish of Deptford), and a caretaker was engaged to take charge.

The house has been partly furnished, and during the year was inhabited by three families from Greenwich.

One of the families occupied the house for two nights, and the others for one night only.

No case has been admitted from Deptford.

The number of deaths of infants under one year was 290 = to 4·8 per 1,000.

One hundred and eight deaths of persons aged 80 and upwards were registered during the year, being an increase of 18 as compared with that of last year.

During the year I visited the Slaughter-houses and Cow-sheds, and found them in a satisfactory condition.

The Bakehouses were also inspected, and those that were in an unsanitary condition reported to the Board.

I have much pleasure in stating that your Sanitary Inspectors

(Messrs. Wilson and Fisher), have been of great assistance to me. They have discharged their onerous duties with zeal, intelligence, and success.

The appointment of a Sanitary Inspector to carry out the duties in connection with the Notification of Infectious Disease under the Public Health (London) Act, 1891, has been of much service, and I have pleasure in stating that Mr. Bache has conducted the work to my entire satisfaction.

In conclusion, I desire to thank the Members of the Board for their uniform courtesy, and their willingness at all times to assist me by adopting any suggestions that I have made tending to improve the Sanitary condition of the District.

I have the honour to remain, Gentlemen,

Yours faithfully,

CHARLES HENRY HARTT,

*Medical Officer of Health.*

| AGE AT TIME OF DEATH | DEATHS |         | MARRIAGES |         | TOTAL |
|----------------------|--------|---------|-----------|---------|-------|
|                      | MALES  | FEMALES | MALES     | FEMALES |       |
| 0-4                  | 10     | 12      | 15        | 18      | 35    |
| 5-9                  | 12     | 15      | 18        | 22      | 47    |
| 10-14                | 15     | 18      | 22        | 28      | 63    |
| 15-19                | 18     | 22      | 28        | 35      | 83    |
| 20-24                | 22     | 28      | 35        | 45      | 105   |
| 25-29                | 28     | 35      | 45        | 60      | 138   |
| 30-34                | 35     | 45      | 60        | 80      | 180   |
| 35-39                | 45     | 60      | 80        | 110     | 235   |
| 40-44                | 60     | 80      | 110       | 150     | 300   |
| 45-49                | 80     | 110     | 150       | 200     | 380   |
| 50-54                | 110    | 150     | 200       | 280     | 540   |
| 55-59                | 150    | 200     | 280       | 380     | 730   |
| 60-64                | 200    | 280     | 380       | 500     | 960   |
| 65-69                | 280    | 380     | 500       | 650     | 1310  |
| 70-74                | 380    | 500     | 650       | 850     | 1830  |
| 75-79                | 500    | 650     | 850       | 1100    | 2400  |
| 80-84                | 650    | 850     | 1100      | 1400    | 3050  |
| 85-89                | 850    | 1100    | 1400      | 1800    | 3950  |
| 90-94                | 1100   | 1400    | 1800      | 2300    | 5000  |
| 95-99                | 1400   | 1800    | 2300      | 2900    | 6400  |
| 100+                 | 1800   | 2300    | 2900      | 3700    | 8300  |
| TOTAL                | 10000  | 12000   | 15000     | 19000   | 36000 |

Deaths due to pneumonia in the country between 1900 and 1910

TABLE O. 1.

| 1893.                                                                             | BIRTHS. |     |        | DEATHS. |     |        | AGES AT TIME OF DEATH. |        |         |          |          |                 | CAUSES. |          |                 |            |                        |        |            |                |              |                             |          |             |            |                     |           |        |     |      |
|-----------------------------------------------------------------------------------|---------|-----|--------|---------|-----|--------|------------------------|--------|---------|----------|----------|-----------------|---------|----------|-----------------|------------|------------------------|--------|------------|----------------|--------------|-----------------------------|----------|-------------|------------|---------------------|-----------|--------|-----|------|
|                                                                                   | M.      | F.  | Total. | M.      | F.  | Total. | 0 to 1                 | 1 to 5 | 5 to 10 | 10 to 30 | 30 to 80 | 80 and upwards. | Fever.  | Measles. | Whooping Cough. | Small Pox. | Diarrhoea & Dysentery. | Fever. | Phtthisis. | Brain Disease. | Convulsions. | Cholera and Purpural Fever. | Old Age. | Diphtheria. | Influenza. | All other Diseases. | Inquests. | TOTAL. |     |      |
| January ... ..                                                                    | 82      | 67  | 149    | 60      | 62  | 122    | 20                     | 12     | 3       | 9        | 64       | 14              | 1       | 2        | ...             | ...        | ...                    | 1      | 15         | 47             | 2            | 6                           | 2        | ...         | 20         | 2                   | 1         | 15     | 8   | 122  |
| February ... ..                                                                   | 78      | 80  | 158    | 56      | 64  | 120    | 20                     | 17     | 2       | 9        | 63       | 9               | ...     | ...      | 2               | ...        | 1                      | ...    | 15         | 34             | 4            | 10                          | 2        | 1           | 13         | 1                   | 1         | 24     | 12  | 120  |
| March ... ..                                                                      | 94      | 77  | 171    | 57      | 73  | 130    | 19                     | 15     | 3       | 9        | 63       | 21              | ...     | 1        | 3               | ...        | 3                      | ..     | 14         | 37             | 2            | 5                           | 2        | 2           | 15         | 3                   | 4         | 29     | 10  | 130  |
| First Quarter ... ..                                                              | 254     | 224 | 478    | 173     | 199 | 372    | 59                     | 44     | 8       | 27       | 190      | 44              | 1       | 3        | 5               | ...        | 4                      | 1      | 44         | 118            | 8            | 21                          | 6        | 3           | 48         | 6                   | 6         | 68     | 30  | 372  |
| April ... ..                                                                      | 59      | 50  | 109    | 59      | 36  | 95     | 19                     | 13     | 5       | 7        | 48       | 3               | ...     | 5        | 3               | ...        | 1                      | ...    | 11         | 32             | 6            | 3                           | 3        | ...         | 5          | 5                   | 3         | 13     | 5   | 95   |
| May... ..                                                                         | 86      | 87  | 173    | 57      | 39  | 96     | 13                     | 14     | ...     | 14       | 52       | 3               | ...     | 1        | ...             | ...        | ...                    | ...    | 14         | 21             | 2            | 6                           | 3        | ...         | 7          | 2                   | 3         | 29     | 8   | 96   |
| June ... ..                                                                       | 77      | 79  | 156    | 77      | 50  | 127    | 28                     | 11     | 4       | 15       | 65       | 4               | 1       | 7        | 1               | 1          | 6                      | 1      | 20         | 25             | 7            | 9                           | ...      | ...         | 11         | 1                   | ...       | 25     | 12  | 127  |
| Second Quarter ... ..                                                             | 222     | 216 | 438    | 193     | 125 | 318    | 60                     | 38     | 9       | 36       | 165      | 10              | 1       | 13       | 4               | 1          | 7                      | 1      | 45         | 78             | 15           | 18                          | 6        | ...         | 23         | 8                   | 6         | 67     | 25  | 318  |
| July... ..                                                                        | 62      | 81  | 143    | 76      | 52  | 128    | 38                     | 10     | 5       | 9        | 59       | 7               | ...     | 5        | ...             | ...        | 8                      | 3      | 7          | 14             | 3            | 20                          | 1        | ...         | 11         | 2                   | ...       | 42     | 12  | 128  |
| August ... ..                                                                     | 75      | 68  | 143    | 57      | 64  | 121    | 26                     | 13     | 6       | 13       | 55       | 8               | ...     | 1        | 5               | 1          | 6                      | 3      | 10         | 13             | 4            | 8                           | 2        | 4           | 16         | 2                   | 1         | 36     | 9   | 121  |
| September ... ..                                                                  | 94      | 87  | 181    | 74      | 68  | 142    | 33                     | 22     | 10      | 15       | 55       | 7               | 1       | 1        | 9               | ...        | 12                     | 4      | 17         | 16             | 5            | 5                           | 5        | 4           | 18         | 7                   | ...       | 29     | 9   | 142  |
| Third Quarter ... ..                                                              | 231     | 236 | 467    | 207     | 184 | 391    | 97                     | 45     | 21      | 37       | 169      | 22              | 1       | 7        | 14              | 1          | 26                     | 10     | 34         | 43             | 12           | 33                          | 8        | 8           | 45         | 11                  | 1         | 107    | 30  | 391  |
| October ... ..                                                                    | 74      | 71  | 145    | 60      | 54  | 114    | 25                     | 11     | 7       | 9        | 56       | 6               | 2       | ...      | 4               | ...        | ...                    | 1      | 6          | 29             | 8            | 8                           | 6        | 2           | 11         | 5                   | ...       | 24     | 8   | 114  |
| November ... ..                                                                   | 84      | 65  | 149    | 51      | 47  | 98     | 21                     | 10     | 4       | 7        | 50       | 6               | 1       | ...      | 1               | ...        | 2                      | 2      | 6          | 36             | 3            | 6                           | 3        | 2           | 10         | 6                   | ...       | 17     | 3   | 98   |
| December ... ..                                                                   | 65      | 78  | 143    | 106     | 108 | 214    | 24                     | 25     | 3       | 22       | 121      | 19              | 1       | 4        | 2               | ...        | ...                    | 1      | 16         | 81             | 3            | 12                          | ...      | 2           | 15         | 3                   | 15        | 42     | 17  | 214  |
| Fourth Quarter ... ..                                                             | 223     | 214 | 437    | 217     | 209 | 426    | 70                     | 46     | 14      | 38       | 227      | 31              | 4       | 4        | 7               | ...        | 2                      | 4      | 28         | 146            | 14           | 26                          | 9        | 6           | 36         | 14                  | 15        | 83     | 28  | 426  |
| Deaths that have occurred in the outlying Institutions during the year 1893.....) | ..      | ... | ...    | 42      | 37  | 79     | 4                      | 17     | 9       | 16       | 32       | 1               | 6       | ...      | ...             | 7          | 1                      | 1      | 11         | 11             | 1            | 15                          | ...      | ...         | 1          | 12                  | ...       | 8      | 5   | 79   |
| TOTAL ... ..                                                                      | 930     | 890 | 1820   | 832     | 754 | 1586   | 290                    | 190    | 61      | 154      | 783      | 108             | 13      | 27       | 30              | 9          | 40                     | 17     | 162        | 396            | 50           | 113                         | 29       | 17          | 153        | 51                  | 28        | 333    | 118 | 1586 |

Table No. 2.

| Districts.                                     | Popula-<br>tion. | Deaths. | Death-rate<br>per 1,000,<br>including<br>Hospitals and<br>Schools and<br>Greenwich<br>Union and<br>Infirmary. | Death-rate<br>per 1,000,<br>excluding<br>Hospitals and<br>Schools and<br>Greenwich<br>Union and<br>Infirmary. | Zymotic<br>Death-rate. | Infantile<br>Mortality. | Birth-rate. |
|------------------------------------------------|------------------|---------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------------------|-------------------------|-------------|
| Greenwich, East .....                          | 32,106           | 510     | } 26·4                                                                                                        | } 16·2                                                                                                        | } 3·1                  | } 4·8                   | } 30·3      |
| "    West .....                                | 22,007           | 465     |                                                                                                               |                                                                                                               |                        |                         |             |
| "    Workhouse                                 | 1,068            | } 398   |                                                                                                               |                                                                                                               |                        |                         |             |
| "    Infirmary...                              | 528              |         |                                                                                                               |                                                                                                               |                        |                         |             |
| Royal Naval College....                        | 199              |         |                                                                                                               |                                                                                                               |                        |                         |             |
| Greenwich Hospital<br>Schools                  | 1,081            |         |                                                                                                               |                                                                                                               |                        |                         |             |
| Seamen's Hospital.....                         | 255              | 115     |                                                                                                               |                                                                                                               |                        |                         |             |
| Miller Hospital .....                          |                  | 19      |                                                                                                               |                                                                                                               |                        |                         |             |
| Outlying Institutions...                       |                  | 79      |                                                                                                               |                                                                                                               |                        |                         |             |
| Estimated Increase of<br>Population since 1891 | 2,713            |         |                                                                                                               |                                                                                                               |                        |                         |             |
| Total .....                                    | 59,957           | 1,586   | 26·4                                                                                                          | 16·2                                                                                                          | 3·1                    | 4·8                     | 30·3        |

Table No. 3.  
ZYMOTIC DISEASES.

| 1893.                    | Scarlet Fever. | Measles. | Whooping<br>Cough | Small Pox. | Diarrhoea and<br>Dysentery. | Enteric Fever. | Diphtheria. | Total. |
|--------------------------|----------------|----------|-------------------|------------|-----------------------------|----------------|-------------|--------|
| January .....            | 1              | 2        | ...               | ...        | ...                         | 1              | 2           | 6      |
| February .....           | ...            | ...      | 2                 | ...        | 1                           | ...            | 1           | 4      |
| March .....              | ...            | 1        | 3                 | ...        | 3                           | ...            | 3           | 10     |
| April .....              | ...            | 5        | 3                 | ...        | 1                           | ...            | 5           | 14     |
| May .....                | ...            | 1        | ...               | ...        | ...                         | ...            | 2           | 3      |
| June .....               | 1              | 7        | 1                 | 1          | 6                           | 1              | 1           | 18     |
| July .....               | ...            | 5        | ...               | ...        | 8                           | 3              | 2           | 18     |
| August .....             | ...            | 1        | 5                 | 1          | 6                           | 3              | 2           | 18     |
| September .....          | 1              | 1        | 9                 | ...        | 12                          | 4              | 7           | 34     |
| October .....            | 2              | ...      | 4                 | ...        | ...                         | 1              | 5           | 12     |
| November .....           | 1              | ...      | 1                 | ...        | 2                           | 2              | 6           | 12     |
| December .....           | 1              | 4        | 2                 | ...        | ...                         | 1              | 3           | 11     |
| Outlying Districts ..... | 6              | ...      | ...               | 7          | 1                           | 1              | 12          | 27     |
| Total .....              | 13             | 27       | 30                | 9          | 40                          | 17             | 51          | 187    |

Zymotic Death-rate ... .. 3·1 per 1,000.

Table No. 4.

| 1893.                               | Births. | Deaths. |                            |
|-------------------------------------|---------|---------|----------------------------|
| January ...                         | 149     | 122     |                            |
| February ...                        | 158     | 120     |                            |
| March ...                           | 171     | 130     |                            |
| April ...                           | 109     | 95      | Births ... 1820            |
| May ...                             | 173     | 96      | Deaths ... 1586            |
| June ...                            | 156     | 127     | Excess of Births ... 234   |
| July ...                            | 143     | 128     |                            |
| August ...                          | 143     | 121     | Birth Rate 30·3 per 1,000. |
| September ...                       | 181     | 142     |                            |
| October ...                         | 145     | 114     |                            |
| November ...                        | 149     | 98      |                            |
| December ...                        | 143     | 214     |                            |
| Out-lying Institutions }<br>..... } |         | 79      |                            |

Table No. 5.

Death Rate per 1,000, excluding Hospitals and Schools = 16·2.

| 1884 | 1885 | 1886 | 1887 | 1888 | 1889 | 1890 | 1891 | 1892 | 1893 |
|------|------|------|------|------|------|------|------|------|------|
| 17·6 | 17·6 | 16·7 | 16·6 | 16·6 | 14·2 | 16·6 | 15·9 | 14·2 | 16·2 |

Table No. 6.

ZYMOTIC DEATH RATE = 3·1.

| 1884-5 | 1885-6 | 1886-7 | 1887-8 | 1888-9 | 1889-90 | 1890 | 1891 | 1892 | 1893 |
|--------|--------|--------|--------|--------|---------|------|------|------|------|
| 3·0    | 3·0    | 2·3    | 2·7    | 1·6    | 3·0     | 2·7  | 2·0  | 2·3  | 3·1  |

Table No. 7.

LONDON. Population; and Births and Deaths in Registration Districts during the 52 Weeks of 1893.

| REGISTRATION DISTRICTS.                                        | Enumerated POPULATION, 1891. | Total Births in 52 Weeks. | Total DEATHS in 52 Weeks. | The DEATHS registered in 52 Weeks include |                                    |             |          |                |             |                 |               |                             |                         |            |          |           |      | Inquest Cases. | Deaths in Public Institutions. | Uncertified Causes of Death. |
|----------------------------------------------------------------|------------------------------|---------------------------|---------------------------|-------------------------------------------|------------------------------------|-------------|----------|----------------|-------------|-----------------|---------------|-----------------------------|-------------------------|------------|----------|-----------|------|----------------|--------------------------------|------------------------------|
|                                                                |                              |                           |                           | Deaths of                                 |                                    | Deaths from |          |                |             |                 |               |                             |                         |            |          |           |      |                |                                |                              |
|                                                                |                              |                           |                           | Infants under 1 Year of Age.              | Persons aged 60 years and upwards. | Small-pox.  | Measles. | Scarlet Fever. | Diphtheria. | Whooping Cough. | Typhus Fever. | Enteric (or Typhoid) Fever. | Simple continued Fever. | Diarrhoea. | Cholera. | Violence. |      |                |                                |                              |
| LONDON.                                                        | 4211743                      | 132975                    | 91536                     | 21845                                     | 21815                              | 206         | 1661     | 1596           | 3265        | 2330            | 5             | 693                         | 21                      | 3446       | 133      | 3425      | 7432 | 24598          | 794                            |                              |
| WEST DISTRICTS ...                                             | 740735                       | 19919                     | 14866                     | 3277                                      | 3974                               | 5           | 102      | 223            | 366         | 366             | ...           | 110                         | 8                       | 543        | 21       | 579       | 1153 | 4401           | 64                             |                              |
| NORTH DISTRICTS ...                                            | 993884                       | 29591                     | 20391                     | 4665                                      | 4995                               | 11          | 385      | 437            | 1043        | 553             | 1             | 181                         | 3                       | 694        | 23       | 699       | 1486 | 5082           | 43                             |                              |
| CENTRAL DISTRICTS ...                                          | 247538                       | 6953                      | 6154                      | 1323                                      | 1294                               | ...         | 170      | 35             | 192         | 136             | ...           | 61                          | 1                       | 181        | 2        | 333       | 636  | 2178           | 21                             |                              |
| EAST DISTRICTS ...                                             | 705114                       | 26285                     | 17555                     | 4615                                      | 3808                               | 1           | 371      | 188            | 519         | 368             | 1             | 133                         | 1                       | 826        | 34       | 723       | 2140 | 5243           | 20                             |                              |
| SOUTH DISTRICTS ...                                            | 1524472                      | 50227                     | 30862                     | 7930                                      | 7275                               | 15          | 633      | 538            | 1139        | 904             | 3             | 206                         | 8                       | 1191       | 53       | 1075      | 1998 | 5986           | 646                            |                              |
| Metropolitan Hospitals and Asylums outside Registration London | ...                          | ...                       | 1708                      | 35                                        | 469                                | 174         | ...      | 175            | 6           | ...             | ...           | 2                           | ...                     | 11         | ...      | 16        | 19   | 1708           | ...                            |                              |
| WEST DISTRICTS.                                                |                              |                           |                           |                                           |                                    |             |          |                |             |                 |               |                             |                         |            |          |           |      |                |                                |                              |
| 1a. Paddington ...                                             | 117846                       | 3010                      | 2279                      | 460                                       | 651                                | ...         | 30       | 10             | 63          | 61              | ...           | 23                          | ...                     | 61         | ...      | 122       | 190  | 592            | ...                            |                              |
| 1b. Kensington ...                                             | 166308                       | 3671                      | 3221                      | 602                                       | 1051                               | 3           | 20       | 12             | 38          | 66              | ...           | 12                          | ...                     | 100        | 5        | 76        | 203  | 1026           | 4                              |                              |
| 2. Fulham ...                                                  | 188878                       | 6677                      | 3887                      | 1125                                      | 864                                | 1           | 14       | 180            | 157         | 131             | ...           | 30                          | 2                       | 209        | 10       | 142       | 322  | 838            | 10                             |                              |
| 3. Chelsea ...                                                 | 96253                        | 2854                      | 2127                      | 497                                       | 490                                | 1           | 25       | 8              | 27          | 67              | ...           | 9                           | 2                       | 83         | 2        | 64        | 139  | 714            | 7                              |                              |
| 4. St. Geo., Hanover Square                                    | 134131                       | 2854                      | 2774                      | 471                                       | 754                                | ...         | 7        | 12             | 75          | 30              | ...           | 33                          | 3                       | 76         | 4        | 149       | 253  | 1128           | 24                             |                              |
| 5. Westminster ...                                             | 37312                        | 853                       | 578                       | 122                                       | 164                                | ...         | 6        | 1              | 6           | 11              | ...           | 3                           | 1                       | 14         | ...      | 26        | 46   | 103            | 19                             |                              |
| NORTH DISTRICTS.                                               |                              |                           |                           |                                           |                                    |             |          |                |             |                 |               |                             |                         |            |          |           |      |                |                                |                              |
| 6. Marylebone ...                                              | 142404                       | 4379                      | 2650                      | 649                                       | 677                                | ...         | 33       | 33             | 66          | 77              | ...           | 11                          | 1                       | 77         | 4        | 84        | 194  | 493            | 6                              |                              |
| 7. Hampstead ...                                               | 68416                        | 1507                      | 1452                      | 166                                       | 294                                | 1           | 3        | 132            | 248         | 6               | ...           | 40                          | ...                     | 23         | ...      | 32        | 55   | 698            | 6                              |                              |
| 8. Pancras ...                                                 | 234379                       | 7044                      | 5209                      | 1197                                      | 1218                               | ...         | 151      | 47             | 164         | 105             | ...           | 25                          | ...                     | 167        | 7        | 240       | 429  | 1571           | 20                             |                              |
| 9. Islington ...                                               | 319143                       | 9750                      | 6315                      | 1588                                      | 1582                               | 10          | 137      | 63             | 133         | 201             | 1             | 37                          | 1                       | 259        | 5        | 185       | 458  | 1166           | 10                             |                              |
| 10. Hackney ...                                                | 229542                       | 6911                      | 4765                      | 1065                                      | 1224                               | ...         | 61       | 162            | 335         | 167             | ...           | 68                          | 1                       | 168        | 7        | 158       | 350  | 1154           | 1                              |                              |





Table No. 8.

INFECTIOUS DISEASES REPORTED UNDER THE PUBLIC  
HEALTH (LONDON) ACT, 1891.

| 1893.         | Scarlet Fever. | Enteric Fever. | Erysipelas. | Diphtheria. | Croup. | Small Pox. | Relapsing Fever. | Continued Fever. | Puerperal Fever. | Typhus Fever. | Total. |
|---------------|----------------|----------------|-------------|-------------|--------|------------|------------------|------------------|------------------|---------------|--------|
| January ...   | 26             | 3              | 10          | 6           | 1      | 5          | ...              | ...              | ...              | ...           | 51     |
| February ...  | 19             | ...            | 7           | 4           | ...    | 7          | ...              | ...              | ...              | ...           | 37     |
| March ...     | 25             | ...            | 11          | 6           | 1      | 22         | ...              | ...              | 2                | ...           | 67     |
| April ...     | 19             | ...            | 3           | 5           | 3      | 49         | ...              | ...              | ...              | ...           | 79     |
| May ...       | 11             | 1              | 9           | 6           | 1      | 8          | ...              | 1                | ...              | ...           | 37     |
| June ...      | 19             | 5              | 9           | 7           | ...    | 10         | ...              | ...              | ...              | ...           | 50     |
| July ...      | 26             | 3              | 12          | 8           | ...    | 5          | ...              | ...              | ...              | ...           | 54     |
| August ...    | 24             | 7              | 10          | 13          | 2      | ...        | ...              | ...              | 1                | ...           | 57     |
| September ... | 33             | 5              | 11          | 23          | 2      | ...        | ...              | ...              | 2                | ...           | 76     |
| October ...   | 47             | 4              | 25          | 36          | 1      | 2          | ...              | ...              | ...              | ...           | 115    |
| November ...  | 35             | 6              | 16          | 30          | 1      | 4          | ...              | ...              | ...              | ...           | 92     |
| December ...  | 18             | 5              | 17          | 26          | 1      | 10         | ...              | 1                | 1                | ...           | 79     |
| Total ...     | 302            | 39             | 140         | 170         | 13     | 122        | ...              | 2                | 6                | ...           | 794    |

Table No. 9.

*Cases of Infectious Disease notified to the several Metropolitan Medical Officers of Health, under the provisions of the Public Health (London) Act, 1891, in the Fifty-two Weeks ended Saturday, 30th December, 1893.*

| Name of District.                            | Small Pox. | Scarlet Fever. | Diphtheria | Enteric Fever. | Typhus Fever. | Other Continued Fevers | Puerperal Fever. | Erysipelas. | Croup. | Cholera. | Totals. | Population in 1891. |
|----------------------------------------------|------------|----------------|------------|----------------|---------------|------------------------|------------------|-------------|--------|----------|---------|---------------------|
| <b>Greenwich</b> (including Deptford) ... .. | 190        | 1503           | 479        | 118            | ...           | 5                      | 22               | 368         | 23     | ...      | 2708    | 165,417             |
| Battersea ... ..                             | 124        | 1504           | 650        | 131            | 3             | 9                      | 20               | 454         | 37     | 1        | 2933    | 150,458             |
| Bermondsey ... ..                            | 56         | 577            | 209        | 50             | 1             | 1                      | 5                | 192         | 24     | ...      | 1115    | 84,688              |
| Bethnal Green ... ..                         | 89         | 1519           | 723        | 140            | ...           | 4                      | 18               | 435         | 44     | 4        | 2976    | 129,134             |
| Camberwell ... ..                            | 142        | 1883           | 500        | 142            | ...           | 5                      | 24               | 440         | 24     | 8        | 3168    | 235,312             |
| Chelsea ... ..                               | 46         | 603            | 236        | 80             | ...           | 1                      | 5                | 220         | 8      | 1        | 1200    | 96,272              |
| Clerkenwell ... ..                           | 16         | 774            | 337        | 71             | ...           | 3                      | 1                | 240         | 30     | 3        | 1450    | 65,885              |
| Fulham ... ..                                | 31         | 721            | 240        | 61             | 1             | 6                      | 18               | 167         | 19     | 5        | 1269    | 91,640              |
| Hackney .. ... ..                            | 67         | 2568           | 932        | 369            | ...           | 7                      | 18               | 522         | 43     | 5        | 4531    | 229,531             |
| Hammersmith ... ..                           | 18         | 687            | 278        | 68             | ...           | 4                      | 18               | 195         | 6      | 1        | 1275    | 97,237              |
| Hampstead ... ..                             | 14         | 540            | 164        | 36             | ...           | 3                      | 5                | 80          | 5      | ...      | 847     | 68,425              |
| Holborn ... ..                               | 35         | 329            | 105        | 41             | 1             | ...                    | 2                | 103         | 3      | ...      | 619     | 33,248              |
| Islington... ..                              | 130        | 3083           | 904        | 270            | 1             | 8                      | 41               | 717         | 32     | 1        | 5187    | 319,433             |
| Kensington ... ..                            | 96         | 957            | 368        | 102            | 1             | 8                      | 9                | 285         | 15     | 2        | 1843    | 166,308             |
| Lambeth... ..                                | 106        | 2276           | 803        | 160            | 3             | 63                     | 27               | 591         | 57     | 30       | 4116    | 275,202             |
| Lewisham ... ..                              | 26         | 571            | 202        | 45             | ...           | ...                    | 9                | 189         | 6      | ...      | 1048    | 65,112              |
| Limehouse ... ..                             | 84         | 721            | 237        | 115            | 3             | 1                      | 6                | 189         | 11     | ...      | 1367    | 57,599              |
| Mile End ... ..                              | 116        | 1203           | 352        | 151            | 1             | ...                    | 6                | 280         | 9      | ...      | 2118    | 107,565             |
| Newington ... ..                             | 76         | 1134           | 472        | 68             | ...           | 1                      | 6                | 295         | 27     | 2        | 2081    | 115,663             |
| Paddington ... ..                            | 72         | 823            | 291        | 71             | 1             | 5                      | 18               | 247         | 9      | ...      | 1537    | 117,838             |
| Plumstead ... ..                             | 60         | 769            | 217        | 43             | ...           | 3                      | 10               | 132         | 21     | ...      | 1255    | 95,699              |
| Poplar ... ..                                | 226        | 1911           | 1111       | 396            | 1             | 37                     | 10               | 588         | 46     | ...      | 4326    | 166,697             |
| Rotherhithe ... ..                           | 92         | 306            | 102        | 28             | ...           | 3                      | 5                | 83          | 6      | ...      | 625     | 39,074              |
| Shoreditch ... ..                            | 33         | 1062           | 511        | 121            | 1             | 4                      | 10               | 334         | 33     | 5        | 2114    | 124,009             |
| St. George-in-the-East... ..                 | 52         | 519            | 250        | 47             | ...           | 1                      | 8                | 124         | 6      | 1        | 1008    | 45,546              |
| St. George, Hanover Sq. ... ..               | 24         | 630            | 122        | 72             | ...           | 2                      | 3                | 87          | 7      | 2        | 949     | 78,362              |
| St. George-the-Martyr... ..                  | 86         | 605            | 183        | 43             | 2             | 2                      | 3                | 157         | 12     | 1        | 1094    | 59,712              |
| St. Giles, Bloomsbury ... ..                 | 77         | 252            | 81         | 33             | ...           | ...                    | 3                | 107         | 6      | ...      | 559     | 39,778              |
| St. James, Westminster ... ..                | 56         | 126            | 49         | 22             | ...           | 3                      | 3                | 35          | ...    | ...      | 294     | 24,993              |
| St. Luke, Middlesex ... ..                   | 17         | 379            | 160        | 32             | ...           | 1                      | 2                | 180         | 13     | ...      | 784     | 42,411              |
| St. Martin-in-the-Fields ... ..              | 11         | 102            | 24         | 6              | ...           | ...                    | ...              | 9           | 2      | ...      | 154     | 14,574              |
| St. Marylebone .. ... ..                     | 186        | 948            | 393        | 99             | 2             | 3                      | 11               | 403         | 19     | 2        | 2066    | 142,381             |
| St. Olave, Southwark ... ..                  | 12         | 124            | 35         | 6              | ...           | ...                    | 3                | 34          | 1      | ...      | 215     | 12,694              |
| St. Pancras ... ..                           | 127        | 2679           | 790        | 184            | ...           | 3                      | 26               | 706         | 22     | 5        | 4542    | 234,437             |
| St. Saviour, Southwark ... ..                | 20         | 219            | 87         | 21             | ...           | ...                    | 1                | 56          | 4      | ...      | 408     | 27,162              |
| Strand ... ..                                | 33         | 140            | 78         | 13             | ...           | ...                    | ...              | 23          | 2      | ...      | 289     | 25,201              |
| Wandsworth ... ..                            | 34         | 1290           | 410        | 115            | ...           | 6                      | 19               | 406         | 34     | 2        | 2316    | 156,931             |
| Westminster ... ..                           | 49         | 428            | 85         | 45             | ...           | ...                    | 5                | 91          | 2      | 2        | 707     | 55,760              |
| Whitechapel ... ..                           | 103        | 863            | 215        | 65             | 1             | ...                    | 9                | 232         | 7      | ...      | 1495    | 74,462              |
| Woolwich ... ..                              | 63         | 258            | 26         | 29             | ...           | 2                      | 4                | 49          | 1      | 2        | 434     | 40,848              |
| City of London ... ..                        | 27         | 331            | 70         | 28             | 1             | 1                      | ...              | 79          | 3      | 2        | 542     | 38,345              |
| Port of London... ..                         | 11         | 2              | ...        | 20             | ...           | ...                    | ...              | 2           | ...    | ...      | 35      |                     |
|                                              | 2933       | 37919          | 13451      | 3757           | 24            | 210                    | 413              | 10126       | 679    | 87       | 69599   |                     |

\* Two cases of "Relapsing Fever" were notified in London, viz. :-1 each in Holborn and Mile End.

Table No. 10.

SHEWING THE NUMBER OF ARTICLES AND ROOMS DISINFECTED IN CONNECTION WITH THE UNDERMENTIONED DISEASES, FROM 25th MARCH, 1893, TO 25th MARCH, 1894.

| Infectious Diseases.   | Number of Cases. | Number of Beds Disinfected. | Pillows Disinfect'd | Bolsters Disinfect'd | Palliasses Disinfect'd | Mattresses Disinfect'd | Odd Articles Disinfected. | Number of Rooms Disinfected. | Total Premises. |
|------------------------|------------------|-----------------------------|---------------------|----------------------|------------------------|------------------------|---------------------------|------------------------------|-----------------|
| Scarlet Fever.....     | 285              | 193                         | 394                 | 141                  | 123                    | 110                    | 1417                      | 246                          | 219             |
| Enteric Fever .. ... { | 35               | 17                          | 38                  | 18                   | 8                      | 7                      | 121                       | 19                           | 17              |
| Typhoid Fever ..... {  | 21               | 17                          | 34                  | 12                   | 7                      | 9                      | 89                        | 20                           | 20              |
| Small Pox .....        | 106              | 96                          | 160                 | 55                   | 65                     | 22                     | 720                       | 118                          | 87              |
| Erysipelas .....       | 148              | 2                           | 5                   | 3                    | 2                      | ...                    | 13                        | 3                            | 2               |
| Diphtheria.....        | 192              | 81                          | 162                 | 58                   | 50                     | 40                     | 604                       | 159                          | 134             |
| Membranous Croup ...   | 11               | 3                           | 2                   | 1                    | 1                      | 1                      | 9                         | 11                           | 11              |
| Puerperal Fever .....  | 7                | 4                           | 4                   | 2                    | 3                      | 1                      | 11                        | 4                            | 4               |
| Continued Fever .....  | 2                | ...                         | ...                 | ...                  | ...                    | ...                    | ...                       | 1                            | 1               |
| Total .....            | 807              | 413                         | 799                 | 290                  | 259                    | 190                    | 2984                      | 581                          | 495             |

ARTHUR E. BACHE,  
Sanitary Inspector.

Table No. 11.

SHEWING THE NUMBER OF ARTICLES DESTROYED IN CONNECTION WITH THE UNDERMENTIONED DISEASES,  
FROM 25th MARCH, 1893, TO 25th MARCH, 1894.

| Infectious Disease.  | Number of Palliasses destroyed. | Beds destroyed. | Mattresses destroyed. | Pillows destroyed. | Bolsters destroyed. | Cushions destroyed. | Blankets destroyed. | Odd Articles destroyed. |
|----------------------|---------------------------------|-----------------|-----------------------|--------------------|---------------------|---------------------|---------------------|-------------------------|
| Scarlet Fever ... .. | 30                              | 20              | 6                     | 6                  | 3                   | 12                  | 2                   | 3                       |
| Enteric Fever ...    | 5                               | 1               | 2                     | 1                  | ...                 | ...                 | ...                 | 2                       |
| Typhoid Fever        | 4                               | 3               | ...                   | 2                  | 1                   | 1                   | ...                 | ...                     |
| Small Pox ... ..     | 18                              | 17              | ...                   | 2                  | 2                   | 1                   | ...                 | ...                     |
| Erysipelas ... ..    | ...                             | ...             | ...                   | ...                | ...                 | ...                 | ...                 | ...                     |
| Diphtheria ... ..    | 13                              | 11              | 1                     | 5                  | 2                   | 3                   | ...                 | 1                       |
| Membranous Croup ... | ...                             | ...             | ...                   | ...                | ...                 | ...                 | ...                 | ...                     |
| Puerperal Fever ...  | 1                               | ...             | ...                   | ...                | ...                 | ...                 | ...                 | ...                     |
| Continued Fever ...  | ...                             | ...             | ...                   | ...                | ...                 | ...                 | ...                 | ...                     |
| Total ... ..         | 71                              | 52              | 9                     | 16                 | 8                   | 17                  | 2                   | 6                       |

ARTHUR E. BACHE,  
Sanitary Inspector.

Table No. 12

HOUSES INSPECTED AND INQUIRIES MADE IN CONNECTION WITH  
 INFECTIOUS DISEASES, FROM MARCH 25th, 1893,  
 TO MARCH 25th, 1894.

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|                                               |        |             |
|-----------------------------------------------|--------|-------------|
| Number of houses inspected and inquiries made | ...    | 820         |
| „ re-visits                                   | ... .. | 3,283       |
|                                               |        | <hr/>       |
| Total                                         | ... .. | 4,103       |
|                                               |        | <hr/> <hr/> |

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On April 1st, 3rd, and 4th, 1893, 23 rooms and 2 staircases at the Marsh Lane Board School were disinfected during the Small Pox Epidemic.

May 23rd and 26th, 1893, 142 blankets belonging to the East Greenwich Congregational Mission were disinfected after the Small Pox Epidemic.

October 16th, 1893, a number of premises visited by inmates of Greenwich Union during the outbreak of Infective Diarrhoea were disinfected.

69 rooms have been cleansed, after disinfection, by the Board's men.

ARTHUR E. BACHE,

*Sanitary Inspector.*

Table No. 13.

HOUSES INSPECTED, FROM 25th MARCH, 1893, TO 25th MARCH, 1894.

|                                        | East District. | West District. | Total. |
|----------------------------------------|----------------|----------------|--------|
| Number of Houses Inspected ... ..      | 940            | 988            | 1,928  |
| Re-inspections, Calls made, &c. ... .. | 3,917          | 5,171          | 9,088  |
| Visits to Slaughter-houses ... ..      | 6              | 12             | 18     |
| „ Cow-houses ... ..                    | 8              | ...            | 8      |
| „ Bake-houses ... ..                   | 25             | 71             | 96     |
| „ Stables and Yards ... ..             | 17             | 62             | 79     |
| „ Factories and Workshops ... ..       | 28             | 14             | 42     |
| „ Fields, Lanes, &c. ... ..            | 14             | ...            | 14     |
| „ Piggeries ... ..                     | 2              | ...            | 2      |
| „ Courts and Alleys ... ..             | ...            | 87             | 87     |
| Total Inspections ... ..               | 4,957          | 6,405          | 11,362 |

N.B.—In addition, the various Fruiterers', Fishmongers', and Provision Dealers', and other places where food is prepared for human consumption, have been visited during the year.

The following have been destroyed as unfit for food :—

168lbs of Pears.

56lbs of Tomatoes

16lbs of Cherries.

CHARLES TURLE WILSON, } Sanitary  
ROBERT FISHER, } Inspectors.

Table No. 14.

IMPROVEMENTS EFFECTED.

From 25th March, 1893 to 25th March, 1894.

| IMPROVEMENTS.                                              |                                      | East District. | West District. | TOTAL. |
|------------------------------------------------------------|--------------------------------------|----------------|----------------|--------|
| Drains                                                     | Constructed                          | 71             | 95             | 166    |
|                                                            | Interceptor, chamber, and air inlet  | 50             | 37             | 87     |
|                                                            | Re-constructed or repaired           | 275            | 318            | 593    |
|                                                            | Cleansed and disinfected             | 44             | 56             | 100    |
|                                                            | Surface drains constructed           | 296            | 80             | 376    |
|                                                            | Traps fixed                          | 453            | 593            | 1046   |
|                                                            | Drains and soil pipes ventilated     | 111            | 89             | 200    |
| Cesspools                                                  | Abolished                            | 1              | 4              | 5      |
|                                                            | Cleansed and disinfected             | 8              | ...            | 8      |
| Water Closets                                              | Closets erected                      | 27             | 39             | 66     |
|                                                            | Pan, trap, and water supply provided | 165            | 2              | 167    |
|                                                            | Pan and trap only furnished          | 260            | 329            | 589    |
|                                                            | Pan only furnished                   | 12             | 125            | 137    |
|                                                            | Water supply apparatus furnished     | 181            | 374            | 555    |
|                                                            | Water supply renewed                 | 59             | 166            | 225    |
| Ash Pits                                                   | Provided                             | 96             | 181            | 277    |
|                                                            | Repaired                             | 2              | 3              | 5      |
| Pavings                                                    | Paving of yards and areas re-laid    | 240            | 200            | 440    |
| General Water Supply                                       | New receptacles provided             | 44             | 59             | 103    |
|                                                            | Repaired and covers adapted          | 116            | 228            | 344    |
|                                                            | Water supply provided                | 10             | 18             | 28     |
| Other Improvements                                         | Houses generally repaired            | 19             | 35             | 54     |
|                                                            | Houses cleansed and limewhited       | 82             | 176            | 258    |
|                                                            | Ventilation improved                 | 8              | ...            | 8      |
| Overcrowding abated                                        | ...                                  | 5              | 5              | 10     |
| Illegal use of underground rooms for sleeping discontinued | ...                                  | 1              | ...            | 1      |
| Other Nuisances abated                                     | ...                                  | 173            | 367            | 540    |
| Total Improvements                                         |                                      | 2809           | 3579           | 6388   |
| Total Premises improved                                    |                                      | 647            | 607            | 1254   |

CHARLES TURLE WILSON, }  
 ROBERT FISHER, } *Sanitary Inspectors.*



**R E P O R T**  
OF THE  
M E D I C A L O F F I C E R O F H E A L T H  
FOR  
D E P T F O R D .

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*To the Board of Works for the Greenwich District.*

GENTLEMEN,

I have the honour to present to you my Eleventh Annual Report on the Vital Statistics and Sanitary Work for the 52 weeks ending December 30th, 1893.

POPULATION.

The population for Saint Paul's Parish, as enumerated at the Census in April, 1891, was 101,252, and Saint Nicholas, 6,828, the estimated population for the middle of the year 1893, arrived at on the basis of the 1891 Census, and in accordance with the plan suggested by the Registrar-General, is for Saint Paul, Deptford, 107,378, and the estimated population for Saint Nicholas, 7,078, making a total estimated population for the two Parishes of 114,456.

BIRTHS.

The number of Births registered during the year 1893 was 3,651 (1,871 males, and 1,780 females), being slightly in excess of the previous year, and equivalent to an annual rate of 31·0 per

1,000 persons living. There were 3,383 Births registered in the Parish of Saint Paul, and 268 in the Parish of Saint Nicholas.

Table No. 1 gives a statement of the Births and Deaths in the two Parishes, and also shows the Deaths which occurred of inhabitants of such two Parishes at Institutions outside those Parishes.

#### DEATHS.

The number of Deaths registered in Saint Paul's Parish was 1,756, in Saint Nicholas Parish 147, in the Metropolitan Asylums Board's Hospital 312, and in the Outlying Institutions 413, making a total of 2,628, being equivalent to an annual rate of 22·9 per 1,000 persons living.

The Death rate in the thirty-three great towns of England and Wales, during the year, averaged 21·6 per 1,000 persons living, whilst the Death rate for the Metropolis was 21·3 per 1,000.

Full details will be found on Tabular Forms Nos. 1 and 2, and Table No. 3 gives the statistics of the Births and Deaths in the two Parishes during the year, showing the number of Deaths which occurred at the Metropolitan Asylums Board's South-Eastern Hospital and the Outlying Institutions.

Table No. 4 shows the Death rate in the two Parishes, from 1884 to 1893, both inclusive, the period during which I have been Medical Officer of Health. This return excludes the Deaths which occurred in the South-Eastern Hospital and in the Outlying Institutions.

#### BIRTHS AND DEATHS.

The total number of Births registered during the year

ending December 31st, 1893, was 3,651 (1871 males and 1,780 females), being an excess of 1,748 of the deaths, excluding the South-Eastern Hospital and Outlying Public Institutions ; the births being equivalent to an annual rate of 31·0 per 1,000 persons living, that of London being 30·9 per 1,000. There were 3,383 births registered in the Parish of Saint Paul, and 268 in the Parish of St. Nicholas, Deptford. Table No. 5 gives a comparative statement of the births and deaths in the two Parishes.

### INFANT MORTALITY.

The deaths of young children always bear a high ratio to the total deaths ; out of a total of 2,628 deaths registered during the year there were 638 infants under one year of age, being an increase over previous years.

Infantile Mortality, measured by the proportions of deaths under one year of age to registered births, was equal to 172 per 1,000, as compared with 159 per 1,000 for the previous year. In the thirty-three large towns of England, the rate of Infantile Mortality last year averaged 181 per 1,000.

### MORTALITY AT GROUPS OF AGES.

The 2,628 deaths last year, included 1,199 of children under five years of age, or nearly one half the total deaths. The deaths of 172 children occurred between the ages of 5 and 10 ; 231 of persons between 10 and 30 years ; 713 were of persons aged between 30 and 70 ; and 312 were of persons aged upwards of 70.

### THE ZYMOTIC DISEASES.

The number of deaths from Zymotic Diseases show a considerable increase over previous years. This year there were

registered in the two Parishes 356 deaths, as against 243 the previous year, and 184 for the year 1891. In the Metropolitan Asylums Board's Hospital 299 deaths were registered, where for the two preceding years they were respectively 266 and 192.

The average Death Rate per 1,000 was 3·0 (that is excluding the deaths which occurred in the Hospital) as compared with 2·2 per 1,000 for the previous year, whilst the Zymotic Rate in the thirty-three great towns of England averaged 3·2, and in London 3·1.

Measles, Whooping Cough, and Diarrhoea were, as usual, the principal causes of death in this class of disease ; 70 were due to Measles, whereas in the two previous years they were respectively 54 and 23. Whooping Cough caused 64 deaths, and 63 the year before, whilst Diarrhoea showed a total of 66, as compared with 81 for the preceding year.

There were during the past year 299 deaths in the Metropolitan Asylums Board's South-Eastern Hospital from Zymotic Diseases, as compared with 266 for the previous year. Scarlet Fever was the cause of 164 deaths during the year, and 160 the previous year. Measles, 5 deaths were registered, and 16 the year before. Diphtheria was greatly in excess this year, 114 deaths were recorded, as against 72 and 64 for the two previous years respectively. The number of deaths from Enteric Fever was 14, and 15 for the year before. Small Pox was the cause of 2 deaths only.

A full detailed account of the deaths from Zymotic Diseases will be found in Tables Nos. 6 and 7, and a full account of the Infectious Diseases which have been notified in Deptford under

the Public Health (London) Act, 1891, will be found in Table No. 8, while Table No. 9 shows the cases notified to the several Metropolitan Medical Officers of Health during the year ending December 30th, 1893.

Table No. 10 shows the deaths from all causes, and also from the principal Zymotic Diseases in the various Metropolitan Districts during the year 1893.

Table No. 11 gives an analysis of the Vital and Mortal Statistics of the thirty-three great towns during the year 1893.

Table No. 12 gives an analysis of Sickness and Mortality Statistics of London during the same period.

SCARLET FEVER was very prevalent during the year throughout the whole of the Metropolis, no less than 1,244 cases were reported in my District, as against 862 and 421 for the two previous years. Great difficulty was experienced at one time in obtaining admission to the Hospital; many were compelled to remain at their own homes until vacancies occurred, and in some instances cases of an urgent character, which I considered should have had priority, were passed over (although I had communicated with the Authorities), for others reported at a later date. We had recorded 39 deaths in the District, and 164 in the South-Eastern Metropolitan Asylums Board's Hospital; in the previous year 8 deaths were registered in the District and 160 in the Hospital.

DIPHTHERIA shows a considerable increase in the District, as, indeed, it does through the whole of the Metropolis. In my District as many as 329 cases were notified, as against 125 and 100 for the two previous years. The number of deaths was 59, and

114 deaths occurred in the Hospital ; whilst the year before, 30 deaths were registered in the District, and 72 in the Hospital.

**SMALL POX.** Only one death was recorded in the District, and 2 in the Hospital, whilst 53 cases were reported under the Public Health (London) Act, 1891, against 9 for the previous year.

**FEVER.** This term includes Typhus, Typhoid or Enteric, Simple, Continued and ill-defined forms of Fever, to which only 10 deaths were referred to in the District during the year, and 14 deaths occurred in the Hospital, and 86 cases were reported under the Act.

**CHOLERA** made its appearance during the months of August and September, at Hull and Grimsby, and was carried from thence to different places in Yorkshire Lancashire, Derbyshire, and Lincolnshire. In London, a number of suspicious cases were notified, but only 4 proved to be true Cholera, 1 in Westminster, 1 in Fulham, 1 in Lambeth, and 1 in Southwark. I am glad to say there were none in Deptford. All severe cases of Diarrhœa occurring among the sick poor were, by the courtesy of the District Poor Law Medical Officers, reported to me and carefully investigated.

**MEASLES.** Seventy deaths were registered in the District during the year, as against 54 and 23 for the two preceding years ; 5 deaths occurred in the Hospital.

**WHOOPIING COUGH** was the cause of 64 deaths, and 63 the previous year.

DIARRHŒA. During the year only 66 deaths were reported, as against 81 for the year before.

RESPIRATORY DISEASES. Under this heading are included Bronchitis, Pneumonia, and Pleurisy, 487 deaths were referred to these diseases, and 168 deaths from Phthisis or Pulmonary Consumption, as against 179 and 187 for the two previous years.

### GENERAL REMARKS.

During the past year the Sanitary work carried out has been very considerable, as shown by the Inspectors' Books. Particular attention has been paid to house drainage, which has required the closest supervision on the part of the Inspectors, who have, I am pleased to say, carried out their duties in a most conscientious manner. The work thus done is of a permanent character. Much, however, still remains to be done in this respect. An order was obtained from the Magistrate to close 15 houses in the District.

The Mill Lane Area Scheme had the sanction of the Home Secretary, and I trust the time is not far distant now, when that most unsightly and insanitary part of the District will be swept away, and the 810 inhabitants housed in proper dwellings.

The Cholera attracted a great deal of attention, and every arrangement was made in case it should appear amongst us.

The question of disinfectants occupied the attention of the Sanitary Sub-Committee, and I presented a report thereon.

The Slaughter-houses and Cow-sheds were all duly inspected, and such defects as existed were remedied.

The Bakehouses have excited an immense deal of attention throughout the whole of the Metropolis, but I am glad to say no great fault can be found with those in my district.

The workshops and factories have also been inspected, and many sanitary improvements have been carried out.

It will be seen that the estimated population of the Parish of Saint Nicholas, which was estimated by me last year to be 8,108, is this year returned as only 7,078. The result of the 1891 Census showed that there was a decrease in the population of that Parish as compared with the Census of 1881. This decrease was caused, in a great measure, by the demolition of the houses in the Hughes' Fields area. During the year 1892 some of the vacant sites were built upon and the houses occupied, and from enquiries I made at that time, I was led to believe that the population had risen up to the number (8,108) I then estimated. I have, however, during the year 1893 gone very carefully into this question. It is impossible, when a Parish shows a decrease of population, and that decrease is known to have been caused by the removal of buildings, and in the course of time other buildings are erected to take the place of those houses which have been demolished, to estimate with any exactitude the present population; and, indeed, only the taking of a Census would furnish it. In the case of Saint Nicholas, Deptford, from the enquiries I have made, and the information received, I am convinced that the population for that Parish was estimated too highly for the year 1892; and I am of opinion the estimated population, as given for this year, is as near correct as it is possible under the circumstances to be ascertained. I draw attention to



this matter because it is well understood that with a larger population the Death rate is necessarily smaller.

The Sanitary Sub-Committee has continued to meet fortnightly during the past year, and every case reported in the Sanitary Inspectors' books has been most carefully considered by them. Thus it will be seen that their labours have been of no small importance, and my personal thanks are due to them for the great interest they have taken in all sanitary matters and the support they have at all times accorded to me. Of the Sanitary Inspectors themselves, I am pleased to say they have always discharged their duties to my entire satisfaction, and I trust that our combined efforts will continue to merit the approval of the Board.

I have the honour to remain, Gentlemen,

Your obedient Servant,

HENRY WILLIAM ROBERTS,

*Medical Officer of Health, Deptford.*

1894.

TABLE No. 1.

| 1893.                                                                      | BIRTHS. |      |        | DEATHS. |      |        | AGES AT TIME OF DEATH. |      |       |       |       |                 | CAUSES.    |            |                   |             |                              |                           |                  |          |                 |            |                        |           |                                    |                |                |                        |              |             |          |                     |           |        |
|----------------------------------------------------------------------------|---------|------|--------|---------|------|--------|------------------------|------|-------|-------|-------|-----------------|------------|------------|-------------------|-------------|------------------------------|---------------------------|------------------|----------|-----------------|------------|------------------------|-----------|------------------------------------|----------------|----------------|------------------------|--------------|-------------|----------|---------------------|-----------|--------|
|                                                                            | M.      | F.   | Total. | M.      | F.   | Total. | 0                      | 1    | 5     | 10    | 30    | 70 and upwards. | Small Pox. | Diphtheria | Membranous Croup. | Erysipelas. | Scarlatina or Scarlet Fever. | Typhoid or Enteric Fever. | Puerperal Fever. | Measles. | Whooping Cough. | Influenza. | Diarrhoea & Dysentery. | Phthisis. | Disease of the Respiratory Organs. | Heart Disease. | Brain Disease. | Intestinal Affections. | Convulsions. | Parturition | Old Age. | All other Diseases. | Inquests. | TOTAL. |
|                                                                            |         |      |        |         |      |        | to 1                   | to 5 | to 10 | to 30 | to 70 |                 |            |            |                   |             |                              |                           |                  |          |                 |            |                        |           |                                    |                |                |                        |              |             |          |                     |           |        |
| January ... ..                                                             | 143     | 138  | 281    | 103     | 108  | 211    | 43                     | 47   | 14    | 19    | 56    | 32              | ...        | 8          | ...               | 1           | 17                           | ...                       | 1                | 8        | 13              | ...        | 11                     | 67        | 13                                 | 10             | 4              | 3                      | ...          | 10          | 45       | 7                   | 211       |        |
| February ... ..                                                            | 147     | 150  | 297    | 73      | 92   | 165    | 40                     | 44   | 8     | 7     | 47    | 19              | ...        | 11         | ...               | ...         | 14                           | 1                         | ...              | 7        | 10              | 1          | ...                    | 7         | 37                                 | 12             | 9              | 4                      | 10           | 1           | 8        | 33                  | 6         | 165    |
| March ... ..                                                               | 158     | 178  | 336    | 115     | 98   | 213    | 50                     | 58   | 22    | 15    | 47    | 20              | 1          | 13         | ...               | ...         | 18                           | 3                         | ...              | 11       | 8               | 10         | 1                      | 12        | 52                                 | 10             | 12             | 4                      | 9            | ...         | 5        | 44                  | 8         | 213    |
| First Quarter ... ..                                                       | 448     | 466  | 914    | 291     | 298  | 589    | 133                    | 149  | 44    | 41    | 150   | 71              | 1          | 32         | ...               | 1           | 49                           | 4                         | 1                | 26       | 31              | 11         | 1                      | 30        | 156                                | 35             | 31             | 12                     | 22           | 1           | 23       | 122                 | 21        | 589    |
| April ... ..                                                               | 179     | 145  | 324    | 95      | 95   | 190    | 49                     | 49   | 15    | 16    | 43    | 18              | ...        | 17         | 2                 | ...         | 15                           | 2                         | ...              | 18       | 9               | 1          | ...                    | 17        | 31                                 | 6              | 8              | 2                      | 8            | 4           | 8        | 43                  | 11        | 190    |
| May ... ..                                                                 | 135     | 116  | 251    | 75      | 70   | 145    | 39                     | 38   | 7     | 14    | 34    | 13              | ...        | 9          | 3                 | ...         | 11                           | 1                         | ...              | 12       | 3               | 1          | 3                      | 10        | 22                                 | 3              | 2              | ...                    | 12           | ...         | 4        | 49                  | 7         | 145    |
| June ... ..                                                                | 138     | 124  | 262    | 91      | 76   | 167    | 62                     | 35   | 9     | 14    | 30    | 17              | 2          | 13         | ...               | ...         | 17                           | 1                         | ...              | 7        | 1               | ...        | 15                     | 7         | 21                                 | 10             | 8              | ...                    | 15           | ...         | 9        | 41                  | 6         | 167    |
| Second Quarter ... ..                                                      | 452     | 385  | 837    | 261     | 241  | 502    | 150                    | 122  | 41    | 44    | 107   | 48              | 2          | 39         | 5                 | ...         | 43                           | 4                         | ...              | 37       | 13              | 2          | 18                     | 34        | 74                                 | 19             | 18             | 2                      | 35           | 4           | 21       | 133                 | 24        | 502    |
| July ... ..                                                                | 143     | 128  | 271    | 80      | 93   | 173    | 66                     | 37   | 11    | 10    | 33    | 16              | ...        | 12         | ...               | ...         | 14                           | 2                         | ...              | 4        | 4               | 1          | 25                     | 7         | 9                                  | 12             | 13             | ...                    | 10           | ...         | 5        | 53                  | 8         | 173    |
| August ... ..                                                              | 141     | 146  | 287    | 75      | 68   | 143    | 42                     | 32   | 6     | 9     | 43    | 11              | ...        | 6          | ...               | ...         | 14                           | 1                         | ...              | 1        | 1               | ...        | 17                     | 10        | 20                                 | 15             | 11             | 2                      | 12           | ...         | 3        | 30                  | 5         | 143    |
| September ... ..                                                           | 191     | 182  | 373    | 80      | 77   | 157    | 54                     | 33   | 16    | 13    | 33    | 8               | ...        | 21         | 1                 | ...         | 16                           | 4                         | ...              | 1        | 2               | 1          | 23                     | 7         | 11                                 | 4              | 5              | 6                      | 8            | 2           | 3        | 42                  | 7         | 157    |
| Third Quarter ... ..                                                       | 475     | 456  | 931    | 235     | 238  | 473    | 162                    | 102  | 33    | 32    | 109   | 35              | ...        | 39         | 1                 | ...         | 44                           | 7                         | ...              | 6        | 7               | 2          | 65                     | 24        | 40                                 | 31             | 29             | 8                      | 30           | 2           | 11       | 125                 | 20        | 473    |
| October ... ..                                                             | 144     | 134  | 278    | 75      | 72   | 147    | 35                     | 41   | 6     | 12    | 47    | 6               | ...        | 19         | 3                 | ...         | 17                           | ...                       | ...              | ...      | ...             | ...        | 3                      | 9         | 18                                 | 8              | 4              | 3                      | 4            | 1           | 4        | 54                  | 6         | 147    |
| November ... ..                                                            | 203     | 164  | 367    | 100     | 123  | 223    | 71                     | 52   | 14    | 20    | 33    | 23              | ...        | 22         | ...               | ...         | 28                           | 3                         | ...              | 2        | 2               | 1          | 2                      | 12        | 62                                 | 11             | 8              | 4                      | 12           | 1           | 7        | 46                  | 11        | 223    |
| December ... ..                                                            | 149     | 175  | 324    | 128     | 153  | 281    | 61                     | 68   | 13    | 18    | 93    | 28              | ...        | 22         | 2                 | ...         | 22                           | 5                         | ...              | 4        | 12              | 20         | ...                    | 15        | 89                                 | 12             | ...            | ...                    | 6            | 3           | 14       | 46                  | 5         | 281    |
| Fourth Quarter ... ..                                                      | 496     | 473  | 969    | 303     | 348  | 651    | 167                    | 161  | 33    | 50    | 173   | 57              | ...        | 63         | 5                 | ...         | 67                           | 8                         | ...              | 6        | 14              | 21         | 5                      | 36        | 169                                | 31             | 12             | 7                      | 22           | 5           | 25       | 146                 | 22        | 651    |
| TOTAL ... ..                                                               | 1871    | 1780 | 3651   | 1090    | 1125 | 2215   | 612                    | 534  | 151   | 167   | 539   | 211             | 3          | 173        | 11                | 1           | 203                          | 23                        | 1                | 75       | 65              | 36         | 89                     | 124       | 439                                | 116            | 90             | 29                     | 109          | 12          | 90       | 526                 | 87        | 2215   |
| Deaths of inhabitants of St. Paul, Deptford, at outlying Institutions      | ...     | ...  | ...    | 210     | 167  | 377    | 23                     | 24   | 20    | 58    | 162   | 90              | 4          | 11         | ...               | ...         | 2                            | 3                         | 2                | 1        | ...             | 4          | 6                      | 40        | 42                                 | 41             | 27             | 16                     | 1            | 1           | 71       | 105                 | 35        | 377    |
| Deaths of inhabitants of St. Nicholas, Deptford, at outlying Institutions. | ...     | ...  | ...    | 18      | 18   | 36     | 3                      | 3    | 1     | 6     | 12    | 11              | ...        | 1          | ...               | ...         | 1                            | ...                       | ...              | ...      | ...             | ...        | 4                      | 6         | 5                                  | 8              | ...            | ...                    | ...          | 7           | 4        | ...                 | 36        |        |
| GRAND TOTAL ... ..                                                         | ...     | ...  | ...    | 1318    | 1310 | 2628   | 638                    | 561  | 172   | 231   | 713   | 312             | 7          | 185        | 11                | 1           | 205                          | 27                        | 3                | 76       | 65              | 40         | 95                     | 168       | 487                                | 162            | 125            | 45                     | 110          | 13          | 168      | 635                 | 122       | 2628   |



Table No. 2.

| District.                       | Population<br>Census<br>1891. | Estimated<br>Population<br>1893. | Deaths. | Death-rate per<br>1,000, including<br>S.E. Hospital. | Death-rate per<br>1,000, including<br>S.E. Hospital<br>and outlying<br>Institutions. | Death-rate per<br>1,000, excluding<br>S.E. Hospital<br>and outlying<br>Institutions. |
|---------------------------------|-------------------------------|----------------------------------|---------|------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| St. Paul, Deptford...           | 101252                        | 107378                           | 1756    | 19.0                                                 | 22.1                                                                                 | 16.0                                                                                 |
| S.E. Hospital ...               | ...                           | ...                              | 312     |                                                      |                                                                                      |                                                                                      |
| Outlying Public<br>Institutions | ...                           | ...                              | 377     |                                                      |                                                                                      |                                                                                      |
|                                 |                               |                                  | 2068    |                                                      |                                                                                      |                                                                                      |
| St. Nicholas ...                | 6828                          | 7078                             | 147     | ...                                                  | 25.1                                                                                 | 20.7                                                                                 |
| Outlying Public<br>Institutions | ...                           | ...                              | 36      |                                                      |                                                                                      |                                                                                      |
| Total ...                       | 108080                        | 114456                           | 2628    | 19.0                                                 | 22.9                                                                                 | 18.3                                                                                 |

Table No. 3.

| 1893.         | SAINT PAUL. |                           |                                |                                        | SAINT NICHOLAS. |         |                                        |
|---------------|-------------|---------------------------|--------------------------------|----------------------------------------|-----------------|---------|----------------------------------------|
|               | Births.     | Deaths<br>in<br>St. Paul. | Deaths<br>in S.E.<br>Hospital. | Deaths in<br>Outlying<br>Institutions. | Births.         | Deaths. | Deaths in<br>Outlying<br>Institutions. |
| January ...   | 261         | 168                       | 25                             | 27                                     | 20              | 18      | 3                                      |
| February ...  | 278         | 130                       | 26                             | 33                                     | 19              | 9       | 2                                      |
| March ...     | 319         | 166                       | 32                             | 41                                     | 17              | 15      | 1                                      |
| April ...     | 294         | 150                       | 32                             | 29                                     | 30              | 8       | 0                                      |
| May ...       | 227         | 111                       | 22                             | 24                                     | 24              | 12      | 3                                      |
| June ...      | 245         | 130                       | 27                             | 39                                     | 17              | 10      | 2                                      |
| July ...      | 253         | 144                       | 22                             | 31                                     | 18              | 7       | 3                                      |
| August ...    | 271         | 117                       | 19                             | 35                                     | 16              | 7       | 2                                      |
| September ... | 340         | 110                       | 33                             | 23                                     | 33              | 14      | 6                                      |
| October ...   | 248         | 116                       | 22                             | 25                                     | 30              | 9       | 7                                      |
| November ...  | 344         | 179                       | 25                             | 26                                     | 23              | 19      | 4                                      |
| December ...  | 303         | 235                       | 27                             | 44                                     | 21              | 19      | 3                                      |
| Total ...     | 3383        | 1756                      | 312                            | 377                                    | 268             | 147     | 36                                     |

Table No. 4.

|                     | 1884 | 1885 | 1886 | 1887 | 1888 | 1889 | 1890 | 1891 | 1892 | 1893 |
|---------------------|------|------|------|------|------|------|------|------|------|------|
| St. Paul ... ..     | 20.3 | 19.6 | 15.9 | 16.9 | 14.2 | 15.6 | 17.1 | 16.3 | 15.6 | 16.0 |
| St. Nicholas ... .. | 21.4 | 20.2 | 17.2 | 17.9 | 13.5 | 16.9 | 15.5 | 24.0 | 15.5 | 20.7 |
| London ... ..       | 20.8 | 20.3 | 20.5 | 20.3 | 19.3 | 18.3 | 21.5 | 21.4 | 20.4 | 21.3 |

Table No. 5.

|                                                                          | Saint Paul. | Saint Nicholas. | Total. |
|--------------------------------------------------------------------------|-------------|-----------------|--------|
| BIRTHS ... ..                                                            | 3383        | 268             | 3651   |
| DEATHS ... ..<br>(excluding S.E. Hospital and<br>outlying Institutions). | 1756        | 147             | 1903   |
| Excess of Births ...                                                     | 1627        | 121             | 1748   |

Table No. 6.

DEATHS FROM ZYMOTIC DISEASES IN THE TWO PARISHES,  
EXCLUDING DEATHS FROM ZYMOTIC DISEASES IN THE  
METROPOLITAN ASYLUM BOARD'S SOUTH-EASTERN HOSPITAL,  
DURING THE YEAR 1893.

| 1893.            | Scarlet<br>Fever. | Measles. | Whooping<br>Cough. | Typhoid or<br>Enteric<br>Fever. | Diphtheria. | Diarrhoea. | Small Pox. | Cholera. | Influenza. | Erysipelas. | Membranous<br>Croup. |
|------------------|-------------------|----------|--------------------|---------------------------------|-------------|------------|------------|----------|------------|-------------|----------------------|
| January ... ..   | ...               | 8        | 13                 | 1                               | 2           | ...        | ...        | ...      | ...        | 1           | ..                   |
| February ... ..  | ...               | 4        | 10                 | 1                               | 2           | ...        | ...        | ...      | 1          | ...         | ..                   |
| March ... ..     | 4                 | 11       | 8                  | 1                               | 2           | 1          | ...        | ...      | 10         | ...         | ..                   |
| April ... ..     | 1                 | 18       | 9                  | 1                               | 1           | ...        | ...        | ...      | 1          | ...         | 2                    |
| May ... ..       | ...               | 11       | 3                  | ...                             | ...         | 3          | ...        | ...      | 1          | ...         | 3                    |
| June ... ..      | 4                 | 7        | ...                | ...                             | 4           | 15         | 1          | ...      | ...        | ...         | ...                  |
| July ... ..      | 1                 | 3        | 4                  | ...                             | 6           | 25         | ...        | ...      | 1          | ...         | ...                  |
| August ... ..    | 1                 | 1        | 1                  | 1                               | 2           | 17         | ...        | ...      | ...        | ...         | ...                  |
| September ... .. | 2                 | 1        | 2                  | ...                             | 7           | ...        | ...        | ...      | 1          | ...         | 1                    |
| October ... ..   | 6                 | ...      | ...                | ...                             | 8           | 3          | ...        | ...      | ...        | ...         | 3                    |
| November ... ..  | 15                | 2        | 2                  | 2                               | 11          | 2          | ...        | ...      | ...        | ...         | ...                  |
| December ... ..  | 5                 | 4        | 12                 | 3                               | 14          | ...        | ...        | ...      | 20         | ...         | 2                    |
|                  | 39                | 70       | 64                 | 10                              | 59          | 66         | 1          | ...      | 35         | 1           | 11                   |

Total 356. Zymotic Death-rate per 1,000, 3.0.  
Zymotic Death-rate, for London generally, per 1,000, 3.1.

Table No. 7.

DEATHS FROM ZYMOTIC DISEASES IN THE  
METROPOLITAN ASYLUMS BOARD'S SOUTH-EASTERN HOSPITAL,  
DURING THE YEAR 1893.

|                  | Scarlet<br>Fever. | Measles. | Typhoid or<br>Enteric<br>Fever. | Diphtheria. | Small Pox. | Cholera. |
|------------------|-------------------|----------|---------------------------------|-------------|------------|----------|
| January ... ..   | 17                | ...      | ..                              | 6           | ...        | ...      |
| February ... ..  | 14                | 3        | ...                             | 9           | 1          | ...      |
| March ... ..     | 14                | ...      | 2                               | 11          | ...        | ...      |
| April ... ..     | 14                | ...      | 1                               | 16          | ...        | ...      |
| May ... ..       | 11                | 1        | 1                               | 9           | ...        | ...      |
| June ... ..      | 13                | ...      | 1                               | 9           | 1          | ...      |
| July... ..       | 13                | 1        | 2                               | 6           | ...        | ...      |
| August ... ..    | 13                | ...      | ...                             | 4           | ...        | ...      |
| September ... .. | 14                | ...      | 4                               | 14          | ...        | ...      |
| October ... ..   | 11                | ...      | ...                             | 11          | ...        | ...      |
| November ... ..  | 13                | ...      | 1                               | 11          | ...        | ...      |
| December ... ..  | 17                | ...      | 2                               | 8           | ...        | ...      |
|                  | 164               | 5        | 14                              | 114         | 2          | ...      |

Total ... 299.

Table No. 8.

Shewing the number of Cases of Infectious Disease Notified in Deptford, and in London, in 1893,  
Arranged in four-weekly periods.

| DATE OF REPORT.<br>For<br>Four Weeks ended |      | DEPTFORD.  |                |             |                |               |                        |                  |             |                   |          | Weeks of the Year. | LONDON. |            |                |             |                |               |                        |                  |             |                   | Weeks of the Year. | DATE OF REPORT.<br>For<br>Four Weeks ended |       |           |        |
|--------------------------------------------|------|------------|----------------|-------------|----------------|---------------|------------------------|------------------|-------------|-------------------|----------|--------------------|---------|------------|----------------|-------------|----------------|---------------|------------------------|------------------|-------------|-------------------|--------------------|--------------------------------------------|-------|-----------|--------|
|                                            |      | Small-Pox. | Scarlet Fever. | Diphtheria. | Enteric Fever. | Typhus Fever. | Other Continued Fever. | Puerperal Fever. | Erysipelas. | Membranous Croup. | Cholera. |                    | Total.  | Small-Pox. | Scarlet Fever. | Diphtheria. | Enteric Fever. | Typhus Fever. | Other Continued Fever. | Puerperal Fever. | Erysipelas. | Membranous Croup. |                    |                                            |       | Cholera.  | Total. |
| January                                    | 1893 | ..         | 63             | 15          | 4              | ..            | ..                     | 2                | 18          | ..                | ..       | 102                | 1-4     | 86         | 1717           | 612         | 201            | 1             | 12                     | 31               | 599         | 56                | 3                  | 3318                                       | 1-4   | January   | 1893   |
| February                                   | "    | 2          | 36             | 11          | 2              | ..            | ..                     | ..               | 11          | ..                | ..       | 62                 | 5-8     | 159        | 1601           | 703         | 183            | 1             | 16                     | 30               | 531         | 67                | 1                  | 3292                                       | 5-8   | February  | "      |
| March                                      | 29   | 7          | 30             | 13          | 1              | ..            | ..                     | ..               | 11          | ..                | ..       | 62                 | 9-12    | 256        | 1428           | 649         | 150            | 2             | 9                      | 25               | 459         | 49                | ..                 | 3027                                       | 9-12  | March     | 29     |
| April                                      | 26   | 12         | 27             | 16          | 6              | ..            | ..                     | 1                | 13          | 1                 | ..       | 76                 | 13-16   | 421        | 1559           | 615         | 149            | 1             | 3                      | 23               | 427         | 53                | ..                 | 3251                                       | 13-16 | April     | 26     |
| May                                        | 24   | 11         | 40             | 6           | 2              | ..            | ..                     | ..               | 7           | 2                 | ..       | 68                 | 17-20   | 528        | 2149           | 867         | 183            | 2             | 11                     | 19               | 579         | 54                | 3                  | 4395                                       | 17-20 | May       | 24     |
| June                                       | 14   | 6          | 69             | 15          | ..             | ..            | ..                     | ..               | 10          | ..                | ..       | 100                | 21-24   | 483        | 2799           | 966         | 194            | 3             | 14                     | 27               | 648         | 40                | 3                  | 5177                                       | 21-24 | June      | 14     |
| July                                       | 12   | 9          | 84             | 17          | 4              | ..            | ..                     | 1                | 19          | ..                | ..       | 134                | 25-28   | 327        | 3772           | 1199        | 397            | 2             | 27                     | 35               | 773         | 49                | 9                  | 6590                                       | 25-28 | July      | 12     |
| August                                     | 9    | 1          | 104            | 41          | 1              | ..            | ..                     | 1                | 12          | 1                 | ..       | 161                | 29-32   | 173        | 3927           | 1119        | 313            | 4             | 15                     | 34               | 807         | 33                | 7                  | 6432                                       | 29-32 | August    | 9      |
| September                                  | 5    | ..         | 73             | 12          | 5              | ..            | ..                     | 2                | 7           | ..                | ..       | 99                 | 33-36   | 107        | 3502           | 1153        | 336            | ..            | 16                     | 27               | 869         | 32                | 23                 | 6065                                       | 33-36 | September | 5      |
| October                                    | 3    | ..         | 152            | 40          | 15             | ..            | ..                     | ..               | 31          | 1                 | ..       | 239                | 37-40   | 82         | 4966           | 1645        | 362            | 3             | 20                     | 27               | 1163        | 53                | 33                 | 8354                                       | 37-40 | October   | 3      |
| November                                   | 1    | 1          | 271            | 70          | 9              | ..            | 1                      | 2                | 39          | 4                 | ..       | 397                | 41-44   | 90         | 4811           | 1530        | 374            | 1             | 24                     | 57               | 1245        | 55                | 5                  | 8192                                       | 41-44 | November  | 1      |
| November                                   | 28   | 1          | 159            | 30          | 16             | ..            | ..                     | 2                | 16          | 3                 | ..       | 227                | 45-48   | 130        | 3473           | 1325        | 555            | 4             | 21                     | 30               | 1105        | 80                | ..                 | 6723                                       | 45-48 | November  | 28     |
| December                                   | 31   | 3          | 136            | 43          | 19             | ..            | 1                      | 3                | 20          | ..                | ..       | 225                | 49-52   | 91         | 2215           | 1068        | 360            | ..            | 22                     | 48               | 921         | 58                | ..                 | 4783                                       | 49-52 | December  | 31     |
| Totals.....                                |      | 53         | 1244           | 329         | 84             | ..            | 2                      | 14               | 214         | 12                | ..       | 1952               |         | 2933       | 37919          | 13451       | 3757           | 24            | 210                    | 413              | 10126       | 679               | 87                 | 69599                                      | *     |           |        |

\* Two cases of Relapsing Fever were notified in addition.

Table No. 9.

*Cases of Infectious Disease notified to the several Metropolitan Medical Officers of Health, under the provisions of the Public Health (London) Act, 1891, in the Fifty-two Weeks ended Saturday, 30th December, 1893.*

| Name of District.         | Small Pox. | Scarlet Fever. | Diphtheria | Enteric Fever. | Typhus Fever. | Other Continued Fevers | Puerperal Fever. | Erysipelas. | Croup. | Cholera. | Totals. | Estimated Population in the middle of 1893. |
|---------------------------|------------|----------------|------------|----------------|---------------|------------------------|------------------|-------------|--------|----------|---------|---------------------------------------------|
| Battersea ...             | 124        | 1504           | 650        | 131            | 3             | 9                      | 20               | 454         | 37     | 1        | 2933    | 160,633                                     |
| Bermondsey ...            | 56         | 577            | 209        | 50             | 1             | 1                      | 5                | 192         | 24     | ...      | 1115    | 84,244                                      |
| Bethnal Green ...         | 89         | 1519           | 723        | 140            | ...           | 4                      | 18               | 435         | 44     | 4        | 2976    | 129,625                                     |
| Camberwell ...            | 142        | 1883           | 500        | 142            | ...           | 5                      | 24               | 440         | 24     | 8        | 3168    | 246,837                                     |
| Chelsea ...               | 46         | 603            | 236        | 80             | ...           | 1                      | 5                | 220         | 8      | 1        | 1200    | 98,114                                      |
| Clerkenwell ...           | 16         | 774            | 307        | 71             | ...           | 8                      | 1                | 240         | 30     | 3        | 1450    | 65,163                                      |
| Fulham ...                | 31         | 721            | 240        | 61             | 1             | 6                      | 18               | 167         | 19     | 5        | 1269    | 103,075                                     |
| <b>*Greenwich</b> ...     | 190        | 1503           | 479        | 118            | ...           | 5                      | 22               | 368         | 23     | ...      | 2708    | 173,349                                     |
| Hackney ...               | 67         | 2568           | 932        | 369            | ...           | 7                      | 18               | 522         | 43     | 5        | 4531    | 240,177                                     |
| Hammersmith ...           | 18         | 687            | 278        | 68             | ...           | 4                      | 18               | 195         | 6      | 1        | 1275    | 103,674                                     |
| Hampstead ...             | 14         | 540            | 164        | 36             | ...           | 3                      | 5                | 80          | 5      | ...      | 847     | 73,949                                      |
| Holborn ...               | 35         | 329            | 105        | 41             | 1             | ...                    | 2                | 103         | 3      | ...      | 619     | 32,646                                      |
| Islington... ..           | 130        | 3083           | 904        | 270            | 1             | 8                      | 41               | 717         | 32     | 1        | 5187    | 328,608                                     |
| Kensington ...            | 96         | 957            | 368        | 102            | 1             | 8                      | 9                | 285         | 15     | 2        | 1843    | 167,038                                     |
| Lambeth... ..             | 106        | 2276           | 803        | 160            | 3             | 63                     | 27               | 591         | 57     | 30       | 4116    | 280,567                                     |
| Lewisham ...              | 26         | 571            | 202        | 45             | ...           | ...                    | 9                | 189         | 6      | ...      | 1048    | 76,593                                      |
| Limehouse ...             | 84         | 721            | 237        | 115            | 3             | 1                      | 6                | 189         | 11     | ...      | 1367    | 57,386                                      |
| Mile End Old Town ...     | 116        | 1199           | 356        | 152            | ...           | ...                    | 6                | 280         | 9      | ...      | 2118    | 108,006                                     |
| Newington ...             | 76         | 1134           | 472        | 68             | ...           | 1                      | 6                | 295         | 27     | 2        | 2081    | 117,430                                     |
| Paddington ...            | 72         | 823            | 291        | 71             | 1             | 5                      | 18               | 247         | 9      | ...      | 1537    | 120,277                                     |
| Plumstead ...             | 60         | 769            | 217        | 43             | ...           | 3                      | 10               | 132         | 21     | ...      | 1255    | 94,192                                      |
| Poplar ...                | 226        | 1911           | 1111       | 396            | 1             | 37                     | 10               | 588         | 46     | ...      | 4326    | 168,876                                     |
| Rotherhithe ...           | 92         | 306            | 102        | 28             | ...           | 3                      | 5                | 83          | 6      | ...      | 625     | 39,764                                      |
| Shoreditch ...            | 33         | 1062           | 511        | 121            | 1             | 4                      | 10               | 334         | 33     | 5        | 2114    | 123,425                                     |
| St. George-in-the-East... | 52         | 519            | 250        | 47             | ...           | 1                      | 8                | 124         | 6      | 1        | 1008    | 45,182                                      |
| St. George, Hanover Sq.   | 24         | 630            | 122        | 72             | ...           | 2                      | 3                | 87          | 7      | 2        | 949     | 75,825                                      |
| St. George-the-Martyr...  | 86         | 605            | 183        | 43             | 2             | 2                      | 3                | 157         | 12     | 1        | 1094    | 59,952                                      |
| St. Giles, Bloomsbury ... | 77         | 252            | 81         | 33             | ...           | ...                    | 3                | 107         | 6      | ...      | 559     | 38,511                                      |
| St. James, Westminster    | 56         | 126            | 49         | 22             | ...           | 3                      | 3                | 35          | ...    | ...      | 294     | 23,873                                      |
| St. Luke, Middlesex ...   | 17         | 379            | 160        | 32             | ...           | 1                      | 2                | 180         | 13     | ...      | 784     | 41,406                                      |
| St. Martin-in-the-Fields  | 11         | 102            | 24         | 6              | ...           | ...                    | ...              | 9           | 2      | ...      | 154     | 13,911                                      |
| St. Marylebone ...        | 186        | 948            | 393        | 99             | 2             | 3                      | 11               | 403         | 19     | 2        | 2066    | 139,546                                     |
| St. Olave, Southwark ...  | 12         | 124            | 35         | 6              | ...           | ...                    | 3                | 34          | 1      | ...      | 215     | 12,861                                      |
| St. Pancras ...           | 127        | 2679           | 790        | 184            | ...           | 3                      | 26               | 706         | 22     | 5        | 4542    | 243,025                                     |
| St. Saviour, Southwark    | 20         | 219            | 87         | 21             | ...           | ...                    | 1                | 56          | 4      | ...      | 408     | 26,823                                      |
| Strand ...                | 33         | 140            | 78         | 13             | ...           | ...                    | ...              | 23          | 2      | ...      | 289     | 23,508                                      |
| Wandsworth ...            | 34         | 1290           | 410        | 115            | ...           | 6                      | 19               | 406         | 34     | 2        | 2316    | 169,379                                     |
| Westminster ...           | 49         | 428            | 85         | 45             | ...           | ...                    | 5                | 91          | 2      | 2        | 707     | 54,761                                      |
| Whitechapel ...           | 103        | 863            | 215        | 65             | 1             | ...                    | 9                | 232         | 7      | ...      | 1495    | 75,163                                      |
| Woolwich ...              | 63         | 258            | 26         | 29             | ...           | 2                      | 4                | 49          | 1      | 2        | 434     | 41,794                                      |
| City of London ...        | 27         | 331            | 70         | 28             | 1             | 1                      | ...              | 79          | 3      | 2        | 542     | 35,383                                      |
| Port of London...         | 11         | 2              | ...        | 20             | ...           | ...                    | ...              | 2           | ...    | ...      | 35      |                                             |
|                           | 2933       | 37915          | 13455      | 3758           | 23            | 210                    | 413              | 10126       | 679    | 87       | 69599   |                                             |

\* This refers to the whole of the District, and includes the Parish of Greenwich as well as the Parishes of St. Paul and St. Nicholas, Deptford.

Table No. 10.

*Shewing Deaths from all causes, and also from the principal Zymotic Diseases, in the various Metropolitan Districts during the year 1893.*

| Name of District.          | Total Deaths from all causes. | Small Pox. | Measles. | Scarlet Fever. | Diphtheria. | Whooping Cough. | Typhus. | Enteric Fever. | Simple and undefined Fever. | Diarrhoea. | Deaths of Infants under one year of age. | Deaths under one year to 1,000 Births registered. |
|----------------------------|-------------------------------|------------|----------|----------------|-------------|-----------------|---------|----------------|-----------------------------|------------|------------------------------------------|---------------------------------------------------|
| Registration London ...    | 90060                         | 186        | 1658     | 1587           | 3196        | 2327            | 5       | 675            | 21                          | 3432       | 21746                                    | 164                                               |
| Paddington ...             | 2141                          | 4          | 30       | 33             | 70          | 60              | ...     | 21             | ...                         | 57         | 451                                      | 150·5                                             |
| Kensington ...             | 2942                          | 10         | 21       | 52             | 83          | 65              | ...     | 17             | ...                         | 100        | 620                                      | 162·75                                            |
| Hammersmith ...            | 1872                          | 3          | 4        | 36             | 53          | 50              | ...     | 15             | ...                         | 83         | 474                                      | 160·75                                            |
| Fulham ...                 | 2024                          | 2          | 12       | 33             | 64          | 82              | ...     | 17             | ...                         | 132        | 653                                      | 175·75                                            |
| Chelsea ...                | 1955                          | 1          | 23       | 32             | 52          | 68              | ...     | 17             | 2                           | 73         | 482                                      | 158                                               |
| St. George, Hanover Sq.    | 1228                          | 3          | 2        | 25             | 34          | 14              | ...     | 12             | 2                           | 26         | 199                                      | 134                                               |
| Westminster ...            | 1290                          | ...        | 5        | 25             | 14          | 15              | ...     | 7              | 1                           | 43         | 255                                      | 189·25                                            |
| St. James, Westminster...  | 474                           | 1          | 4        | 2              | 14          | 8               | ...     | 6              | 1                           | 7          | 77                                       | 148·5                                             |
| Marylebone ...             | 3192                          | 5          | 32       | 68             | 94          | 78              | ...     | 20             | 1                           | 84         | 660                                      | 151·25                                            |
| Hampstead ...              | 948                           | 2          | 1        | 20             | 38          | 6               | ...     | 8              | 1                           | 22         | 154                                      | 102·25                                            |
| St. Pancras ...            | 5138                          | 9          | 104      | 100            | 201         | 106             | ...     | 27             | ...                         | 164        | 1118                                     | 172·5                                             |
| Islington ...              | 6405                          | 2          | 129      | 96             | 200         | 197             | 1       | 47             | 1                           | 259        | 1603                                     | 165                                               |
| Hackney ...                | 4832                          | 4          | 57       | 74             | 206         | 167             | ...     | 53             | 1                           | 164        | 1049                                     | 152·5                                             |
| St. Giles, Bloomsbury ...  | 925                           | 4          | 6        | 14             | 22          | 18              | ...     | 6              | ...                         | 23         | 143                                      | 134·5                                             |
| St. Martin-in-the-Fields   | 298                           | 2          | 1        | 2              | 8           | 2               | ...     | 1              | ...                         | 5          | 42                                       | 187·25                                            |
| Strand ...                 | 713                           | 1          | 2        | 19             | 22          | 11              | ...     | 1              | ...                         | 12         | 130                                      | 218·5                                             |
| Holborn ...                | 886                           | 1          | 18       | 12             | 22          | 16              | ...     | 13             | ...                         | 27         | 185                                      | 218·25                                            |
| Clerkenwell ...            | 1745                          | ...        | 79       | 30             | 76          | 51              | ...     | 10             | ...                         | 73         | 425                                      | 200·25                                            |
| St. Luke, Middlesex ...    | 1282                          | 1          | 58       | 28             | 46          | 40              | ...     | 12             | ...                         | 47         | 308                                      | 174·25                                            |
| City of London ...         | 844                           | 3          | 11       | 8              | 11          | 4               | ...     | ...            | 1                           | 10         | 84                                       | 132·5                                             |
| Shoreditch ...             | 3153                          | 3          | 129      | 39             | 137         | 80              | ...     | 16             | 1                           | 161        | 791                                      | 180·5                                             |
| Bethnal Green ...          | 3257                          | 7          | 83       | 71             | 136         | 60              | ...     | 25             | ...                         | 145        | 844                                      | 175·5                                             |
| Whitechapel ...            | 1916                          | 5          | 37       | 32             | 61          | 26              | ...     | 8              | ...                         | 66         | 520                                      | 171                                               |
| St. George-in-the-East ... | 1403                          | 1          | 30       | 14             | 62          | 23              | ...     | 4              | ...                         | 85         | 410                                      | 209·75                                            |
| Stepney ...                | 1576                          | 8          | 23       | 35             | 61          | 64              | 1       | 18             | ...                         | 61         | 401                                      | 208·5                                             |
| Mile End Old Town ...      | 2430                          | 8          | 39       | 40             | 80          | 47              | ...     | 29             | ...                         | 113        | 619                                      | 150·25                                            |
| Poplar ...                 | 3905                          | 12         | 32       | 105            | 168         | 74              | 1       | 62             | ...                         | 185        | 1003                                     | 171·75                                            |
| St. Saviour, Southwark...  | 649                           | ...        | 6        | 18             | 17          | 20              | ...     | 3              | ...                         | 18         | 120                                      | 153·5                                             |
| St. George, Southwark ...  | 1700                          | 7          | 35       | 42             | 45          | 74              | ...     | 13             | ...                         | 63         | 385                                      | 204·5                                             |
| Newington ...              | 2856                          | 6          | 34       | 51             | 93          | 109             | ...     | 13             | ...                         | 126        | 763                                      | 177·25                                            |
| St. Olave, Southwark ...   | 312                           | 1          | 1        | 6              | 5           | 3               | ...     | 2              | ...                         | 9          | 58                                       | 144·25                                            |
| Bermondsey ...             | 2004                          | 4          | 36       | 30             | 80          | 46              | 1       | 8              | ...                         | 70         | 537                                      | 168·5                                             |
| Rotherhithe ...            | 927                           | 13         | 10       | 16             | 31          | 33              | ...     | 8              | ...                         | 25         | 227                                      | 167                                               |
| Lambeth ...                | 5749                          | 5          | 113      | 69             | 185         | 151             | 1       | 36             | 4                           | 197        | 1371                                     | 161·5                                             |
| Battersea ...              | 2980                          | 12         | 93       | 40             | 170         | 114             | ...     | 22             | ...                         | 122        | 878                                      | 170                                               |
| Wandsworth ...             | 2617                          | 1          | 36       | 53             | 113         | 81              | ...     | 18             | 1                           | 119        | 650                                      | 141·25                                            |
| Camberwell ...             | 4311                          | 10         | 54       | 62             | 149         | 120             | ...     | 23             | 1                           | 146        | 1061                                     | 158                                               |
| *Greenwich ...             | 3510                          | 13         | 103      | 68             | 147         | 100             | ...     | 28             | 1                           | 143        | 887                                      | 164·75                                            |
| Lewisham ...               | 1133                          | 5          | 19       | 11             | 53          | 8               | ...     | 9              | 1                           | 29         | 244                                      | 129·75                                            |
| Woolwich ...               | 842                           | 4          | 14       | 16             | 8           | 20              | ...     | 5              | 1                           | 33         | 208                                      | 159·75                                            |
| Plumstead ...              | 1547                          | 2          | 53       | 48             | 85          | 32              | ...     | 11             | ...                         | 54         | 394                                      | 137·75                                            |

\* This refers to the whole of the District, and includes the Parish of Greenwich as well as the Parishes of Saint Paul and Saint Nicholas, Deptford.



Table No. 11.—Analysis of the Vital and Mortal Statistics of Thirty-three of the Largest English Towns during the Year 1893.

| TOWNS.                    | Estimated Population middle of '93. | Births. | Deaths. | Annual Rate per 1000 living. |         |                             | Deaths from Principal Zymotic Diseases. | Small Pox. | Measles. | Scarlet Fever. | Diphtheria. | Whooping Cough. | Fever. | Diarrhoea. | Deaths of Children under 1 year of age to 1,000 Births. | Rate per cent. of Uncertified Death. |
|---------------------------|-------------------------------------|---------|---------|------------------------------|---------|-----------------------------|-----------------------------------------|------------|----------|----------------|-------------|-----------------|--------|------------|---------------------------------------------------------|--------------------------------------|
|                           |                                     |         |         | Births.                      | Deaths. | Principal Zymotic Diseases. |                                         |            |          |                |             |                 |        |            |                                                         |                                      |
| 33 Towns .....            | 10,327,846                          | 328,342 | 222,178 | 31.9                         | 21.6    | 3.2                         | 32,797                                  | 732        | 4,559    | 3,015          | 4,423       | 4,977           | 2,493  | 12,598     | 181                                                     | 1.8                                  |
| 32 Provincial Towns ..... | 6,021,435                           | 195,377 | 130,642 | 32.5                         | 21.8    | 3.3                         | 19,574                                  | 526        | 2,898    | 1,419          | 1,158       | 2,647           | 1,774  | 9,152      | 193                                                     | 2.4                                  |
| London .....              | 4,306,411                           | 132,965 | 91,536  | 31.0                         | 21.3    | 3.1                         | 13,223                                  | 206        | 1,661    | 1,596          | 3,265       | 2,330           | 719    | 3,446      | 164                                                     | 0.9                                  |
| West Ham .....            | 227,405                             | 8,083   | 4,288   | 35.6                         | 18.9    | 3.4                         | 768                                     | 55         | 36       | 80             | 95          | 154             | 68     | 280        | 170                                                     | 4.5                                  |
| Croydon .....             | 108,997                             | 2,852   | 1,772   | 26.2                         | 16.3    | 2.2                         | 240                                     | 1          | 20       | 11             | 85          | 27              | 12     | 84         | 155                                                     | —                                    |
| Brighton .....            | 117,833                             | 2,981   | 2,165   | 25.4                         | 18.4    | 1.8                         | 217                                     | ..         | 13       | 12             | 33          | 56              | 15     | 88         | 169                                                     | 2.7                                  |
| Portsmouth .....          | 167,277                             | 4,709   | 3,039   | 28.2                         | 18.2    | 2.8                         | 469                                     | ..         | 113      | 33             | 29          | 37              | 52     | 205        | 164                                                     | 0.8                                  |
| Plymouth .....            | 86,781                              | 2,590   | 1,839   | 29.9                         | 21.2    | 2.8                         | 240                                     | ..         | 85       | 22             | 14          | 46              | 10     | 63         | 169                                                     | 0.5                                  |
| Bristol .....             | 225,028                             | 6,814   | 4,249   | 30.4                         | 18.9    | 1.7                         | 371                                     | 17         | 25       | 35             | 49          | 77              | 25     | 143        | 141                                                     | 1.6                                  |
| Cardiff .....             | 142,435                             | 5,121   | 2,796   | 36.1                         | 19.7    | 3.3                         | 469                                     | ..         | 100      | 39             | 98          | 40              | 27     | 165        | 179                                                     | 1.0                                  |
| Swansea .....             | 93,816                              | 3,285   | 1,836   | 35.1                         | 19.6    | 1.8                         | 172                                     | ..         | 17       | 33             | 5           | 30              | 19     | 68         | 170                                                     | 2.0                                  |
| Wolverhampton .....       | 84,298                              | 2,902   | 1,956   | 34.5                         | 23.3    | 2.8                         | 239                                     | 1          | 21       | 26             | 5           | 4               | 28     | 154        | 208                                                     | 1.0                                  |
| Birmingham .....          | 487,891                             | 15,916  | 10,693  | 32.7                         | 22.0    | 3.0                         | 1,481                                   | 71         | 50       | 68             | 63          | 320             | 98     | 811        | 198                                                     | 4.9                                  |
| Norwich .....             | 104,184                             | 3,210   | 2,003   | 30.9                         | 19.3    | 3.1                         | 317                                     | ..         | 61       | 20             | 23          | 66              | 37     | 110        | 195                                                     | 1.1                                  |
| Leicester .....           | 184,547                             | 6,006   | 3,683   | 32.6                         | 20.0    | 4.0                         | 727                                     | 15         | 52       | 80             | 20          | 113             | 46     | 401        | 220                                                     | 3.7                                  |
| Nottingham .....          | 220,551                             | 6,642   | 4,061   | 30.2                         | 18.5    | 2.6                         | 577                                     | 4          | 25       | 81             | 15          | 59              | 69     | 324        | 170                                                     | 1.7                                  |
| Derby .....               | 97,341                              | 3,123   | 1,771   | 32.2                         | 18.2    | 2.1                         | 201                                     | 7          | 17       | 14             | 7           | 44              | 22     | 90         | 156                                                     | 0.8                                  |
| Birkenhead .....          | 103,817                             | 3,431   | 2,127   | 33.1                         | 20.5    | 2.8                         | 292                                     | 1          | 15       | 12             | 16          | 69              | 27     | 152        | 196                                                     | 1.1                                  |
| Liverpool .....           | 510,514                             | 18,322  | 13,919  | 36.0                         | 27.3    | 3.9                         | 1,987                                   | 9          | 273      | 231            | 63          | 279             | 269    | 863        | 211                                                     | 3.7                                  |
| Bolton .....              | 117,278                             | 3,874   | 2,821   | 33.1                         | 24.1    | 4.7                         | 544                                     | 7          | 166      | 34             | 12          | 77              | 36     | 212        | 199                                                     | 0.8                                  |
| Manchester .....          | 515,598                             | 17,268  | 12,801  | 33.6                         | 24.9    | 3.7                         | 1,911                                   | 48         | 295      | 138            | 165         | 241             | 129    | 894        | 203                                                     | 1.3                                  |
| Salford .....             | 203,431                             | 7,047   | 4,886   | 34.7                         | 24.1    | 4.1                         | 839                                     | 22         | 92       | 41             | 58          | 99              | 100    | 427        | 210                                                     | 3.3                                  |
| Oldham .....              | 136,469                             | 3,896   | 2,860   | 28.6                         | 21.0    | 2.5                         | 338                                     | 65         | 29       | 16             | 18          | 55              | 26     | 129        | 187                                                     | 1.1                                  |
| Burnley .....             | 93,462                              | 3,161   | 2,039   | 33.9                         | 21.9    | 3.8                         | 354                                     | 6          | 27       | 51             | 14          | 34              | 28     | 194        | 223                                                     | 1.4                                  |
| Blackburn .....           | 124,005                             | 3,822   | 2,879   | 30.9                         | 23.3    | 4.1                         | 504                                     | 7          | 144      | 5              | 2           | 33              | 30     | 283        | 241                                                     | 3.4                                  |
| Preston .....             | 110,225                             | 3,855   | 2,899   | 35.1                         | 26.4    | 6.0                         | 661                                     | ..         | 179      | 27             | 14          | 47              | 51     | 343        | 269                                                     | 3.8                                  |
| Huddersfield .....        | 97,549                              | 2,313   | 1,673   | 23.8                         | 17.2    | 1.2                         | 121                                     | ..         | 23       | 25             | 3           | 13              | 12     | 45         | 141                                                     | 2.9                                  |
| Halifax .....             | 91,918                              | 2,253   | 1,591   | 24.6                         | 17.4    | 1.7                         | 157                                     | 35         | 5        | 3              | 23          | 32              | 13     | 46         | 173                                                     | 4.3                                  |
| Bradford .....            | 221,611                             | 6,132   | 4,632   | 27.7                         | 21.0    | 3.4                         | 757                                     | 115        | 69       | 70             | 23          | 110             | 49     | 321        | 197                                                     | 1.5                                  |
| Leeds .....               | 382,093                             | 12,349  | 8,493   | 32.4                         | 22.3    | 3.5                         | 1,322                                   | 20         | 341      | 31             | 62          | 166             | 110    | 592        | 206                                                     | 1.0                                  |
| Sheffield .....           | 333,922                             | 11,591  | 7,428   | 34.8                         | 22.3    | 3.5                         | 1,172                                   | 5          | 176      | 90             | 61          | 128             | 90     | 622        | 191                                                     | 3.5                                  |
| Hull .....                | 208,709                             | 7,125   | 4,545   | 34.2                         | 21.8    | 4.1                         | 862                                     | 8          | 128      | 33             | 22          | 80              | 99     | 492        | 206                                                     | 3.3                                  |
| Sunderland .....          | 134,515                             | 4,771   | 3,022   | 35.6                         | 22.5    | 3.4                         | 451                                     | 5          | 17       | 26             | 11          | 24              | 131    | 237        | 188                                                     | 0.9                                  |
| Gateshead .....           | 90,938                              | 3,309   | 1,750   | 36.5                         | 19.3    | 3.5                         | 314                                     | 2          | 71       | 9              | 19          | 53              | 21     | 139        | 170                                                     | 2.5                                  |
| Newcastle-on-Tyne .....   | 196,997                             | 6,624   | 4,126   | 33.7                         | 21.0    | 2.5                         | 500                                     | ..         | 212      | 23             | 31          | 34              | 25     | 175        | 174                                                     | 0.9                                  |



Table No. 12.

ANALYSIS OF SICKNESS AND MORTALITY STATISTICS OF LONDON DURING 1893.

| SANITARY AREAS.                  | Estimated Population in the middle of 1893. | NOTIFIED CASES OF INFECTIOUS DISEASE. |                |             |               |                |                         |                  |             |          | DEATHS FROM PRINCIPAL INFECTIOUS DISEASES. |                                      |            |          |                |             |                 |               |                |                         | Deaths from all causes | Death Rate per 1000 living. | Deaths of Infants under one year to 1000 Births. |            |        |                                      |
|----------------------------------|---------------------------------------------|---------------------------------------|----------------|-------------|---------------|----------------|-------------------------|------------------|-------------|----------|--------------------------------------------|--------------------------------------|------------|----------|----------------|-------------|-----------------|---------------|----------------|-------------------------|------------------------|-----------------------------|--------------------------------------------------|------------|--------|--------------------------------------|
|                                  |                                             | Small Pox.                            | Scarlet Fever. | Diphtheria† | Typhus Fever. | Enteric Fever. | Other Continued Fevers. | Puerperal Fever. | Erysipelas. | Cholera. | TOTAL.                                     | Annual Rate per 1000 persons living. | Small Pox. | Measles. | Scarlet Fever. | Diphtheria‡ | Whooping Cough. | Typhus Fever. | Enteric Fever. | Other Continued Fevers. |                        |                             |                                                  | Diarrhoea. | TOTAL. | Annual Rate per 1000 persons living. |
| LONDON .....                     | 4,306,411                                   | 2813                                  | 36,901         | 13,694      | 22            | 3663           | 205                     | 397              | 9700        | 86       | 67.4                                       | 15.7                                 | 186        | 1658     | 1587           | 3196        | 2327            | 5             | 675            | 21                      | 3436                   | 13,091                      | 3.0                                              | 90,060     | 20.9   | 164                                  |
| <i>West Districts.</i>           |                                             |                                       |                |             |               |                |                         |                  |             |          |                                            |                                      |            |          |                |             |                 |               |                |                         |                        |                             |                                                  |            |        |                                      |
| Paddington .....                 | 120,421                                     | 68                                    | 778            | 289         | 1             | 67             | 5                       | 18               | 240         | ..       | 146                                        | 12.2                                 | 4          | 30       | 33             | 70          | 60              | ..            | 21             | ..                      | 57                     | 275                         | 2.3                                              | 2141       | 17.8   | 150                                  |
| Kensington .....                 | 167,029                                     | 102                                   | 943            | 373         | 1             | 97             | 11                      | 9                | 273         | 2        | 181                                        | 10.8                                 | 10         | 21       | 32             | 83          | 65              | ..            | 17             | ..                      | 100                    | 348                         | 2.1                                              | 2942       | 17.6   | 169                                  |
| Hammersmith .....                | 103,044                                     | 17                                    | 665            | 279         | ..            | 67             | ..                      | 18               | 183         | 1        | 123                                        | 12.0                                 | 3          | 4        | 36             | 53          | 50              | ..            | 15             | ..                      | 83                     | 246                         | 2.4                                              | 1872       | 18.2   | 160                                  |
| Fulham .....                     | 104,735                                     | 30                                    | 706            | 251         | 1             | 59             | 5                       | 18               | 156         | 5        | 123                                        | 11.8                                 | 2          | 12       | 33             | 64          | 82              | ..            | 17             | ..                      | 132                    | 342                         | 3.3                                              | 2024       | 19.5   | 176                                  |
| Chelsea .....                    | 98,182                                      | 43                                    | 589            | 236         | ..            | 76             | 1                       | 5                | 206         | 1        | 115                                        | 11.8                                 | 1          | 23       | 32             | 52          | 68              | ..            | 17             | ..                      | 73                     | 268                         | 2.7                                              | 1955       | 19.9   | 158                                  |
| St. George, Hanover Square ..... | 76,043                                      | 23                                    | 591            | 123         | ..            | 68             | 2                       | 3                | 82          | 2        | 89                                         | 11.8                                 | 3          | 2        | 25             | 34          | 14              | ..            | 12             | 2                       | 26                     | 118                         | 1.6                                              | 1228       | 16.1   | 133                                  |
| Westminster .....                | 54,829                                      | 47                                    | 420            | 83          | ..            | 41             | ..                      | 5                | 84          | 2        | 68                                         | 12.4                                 | ..         | 5        | 25             | 14          | 15              | ..            | 7              | 1                       | 43                     | 110                         | 2.0                                              | 1290       | 23.5   | 188                                  |
| St. James, Westminster .....     | 24,000                                      | 52                                    | 113            | 46          | ..            | 22             | 3                       | 3                | 33          | ..       | 27                                         | 11.3                                 | 1          | 4        | 2              | 14          | 8               | ..            | 6              | 1                       | 7                      | 43                          | 1.8                                              | 474        | 19.8   | 146                                  |
| <i>North Districts.</i>          |                                             |                                       |                |             |               |                |                         |                  |             |          |                                            |                                      |            |          |                |             |                 |               |                |                         |                        |                             |                                                  |            |        |                                      |
| Marylebone .....                 | 139,726                                     | 179                                   | 913            | 401         | 2             | 94             | 3                       | 10               | 379         | 2        | 198                                        | 14.2                                 | 5          | 32       | 68             | 94          | 78              | ..            | 20             | 1                       | 84                     | 382                         | 2.7                                              | 3192       | 22.8   | 151                                  |
| Hampstead .....                  | 73,380                                      | 14                                    | 516            | 166         | ..            | 35             | 3                       | 5                | 78          | ..       | 81                                         | 11.1                                 | 2          | 1        | 20             | 38          | 6               | ..            | 8              | ..                      | 22                     | 97                          | 1.3                                              | 948        | 12.9   | 102                                  |
| St. Pancras .....                | 235,936                                     | 120                                   | 2589           | 784         | ..            | 169            | 3                       | 24               | 656         | 5        | 433                                        | 18.6                                 | 9          | 154      | 100            | 201         | 106             | ..            | 27             | ..                      | 164                    | 761                         | 3.3                                              | 5138       | 22.0   | 172                                  |
| Islington .....                  | 327,919                                     | 122                                   | 2989           | 901         | 1             | 263            | 7                       | 40               | 702         | 1        | 502                                        | 15.3                                 | 2          | 129      | 94             | 200         | 197             | 1             | 47             | 1                       | 259                    | 930                         | 2.8                                              | 6405       | 19.5   | 164                                  |
| Hackney .....                    | 240,584                                     | 65                                    | 2505           | 965         | ..            | 363            | 7                       | 18               | 499         | 4        | 442                                        | 18.4                                 | 4          | 57       | 74             | 206         | 165             | ..            | 53             | 1                       | 164                    | 724                         | 3.0                                              | 4532       | 18.8   | 152                                  |
| <i>Central Districts.</i>        |                                             |                                       |                |             |               |                |                         |                  |             |          |                                            |                                      |            |          |                |             |                 |               |                |                         |                        |                             |                                                  |            |        |                                      |
| St. Giles .....                  | 38,641                                      | 73                                    | 238            | 78          | ..            | 32             | ..                      | 2                | 98          | ..       | 52                                         | 13.5                                 | 4          | 6        | 14             | 22          | 18              | ..            | 6              | ..                      | 23                     | 93                          | 2.4                                              | 925        | 23.9   | 131                                  |
| St. Martin-in-the-Fields .....   | 14,034                                      | 11                                    | 102            | 27          | ..            | 6              | ..                      | ..               | 9           | ..       | 15                                         | 11.1                                 | 2          | 1        | 2              | 8           | 2               | ..            | 1              | ..                      | 5                      | 21                          | 1.5                                              | 298        | 21.2   | 188                                  |
| Strand .....                     | 23,788                                      | 32                                    | 140            | 76          | ..            | 11             | ..                      | ..               | 22          | ..       | 28                                         | 11.8                                 | 1          | 2        | 19             | 22          | 11              | ..            | 1              | ..                      | 12                     | 68                          | 2.9                                              | 713        | 30.0   | 219                                  |
| Holborn .....                    | 32,690                                      | 30                                    | 311            | 98          | 1             | 41             | ..                      | 2                | 95          | ..       | 57                                         | 17.7                                 | 1          | 18       | 12             | 22          | 15              | ..            | 13             | ..                      | 27                     | 109                         | 3.3                                              | 886        | 27.1   | 214                                  |
| Clerkenwell .....                | 65,589                                      | 17                                    | 731            | 304         | ..            | 68             | 8                       | 1                | 229         | 3        | 156                                        | 20.8                                 | ..         | 79       | 30             | 76          | 51              | ..            | 10             | ..                      | 73                     | 319                         | 4.9                                              | 1745       | 26.6   | 202                                  |
| St. Luke .....                   | 41,577                                      | 16                                    | 361            | 155         | ..            | 32             | 1                       | 2                | 168         | ..       | 73                                         | 17.7                                 | 1          | 58       | 28             | 46          | 40              | ..            | 12             | ..                      | 47                     | 232                         | 5.6                                              | 1282       | 30.8   | 174                                  |
| City of London .....             | 35,870                                      | 27                                    | 299            | 68          | 1             | 27             | 1                       | ..               | 76          | 3        | 50                                         | 14.0                                 | 3          | 11       | 8              | 11          | 4               | ..            | ..             | 1                       | 10                     | 48                          | 1.3                                              | 843        | 23.5   | 132                                  |
| <i>East Districts.</i>           |                                             |                                       |                |             |               |                |                         |                  |             |          |                                            |                                      |            |          |                |             |                 |               |                |                         |                        |                             |                                                  |            |        |                                      |
| Shoreditch .....                 | 123,440                                     | 28                                    | 1008           | 514         | 1             | 117            | 4                       | 10               | 317         | 4        | 200                                        | 16.2                                 | 3          | 129      | 39             | 137         | 80              | ..            | 16             | 1                       | 161                    | 566                         | 4.6                                              | 3153       | 25.5   | 178                                  |
| Bethnal Green .....              | 129,620                                     | 79                                    | 1488           | 746         | ..            | 138            | 4                       | 18               | 426         | 4        | 290                                        | 22.4                                 | 7          | 83       | 71             | 136         | 60              | ..            | 25             | ..                      | 145                    | 527                         | 4.1                                              | 3257       | 25.1   | 177                                  |
| Whitechapel .....                | 75,178                                      | 99                                    | 811            | 208         | 1             | 62             | ..                      | 9                | 216         | ..       | 140                                        | 18.7                                 | 5          | 37       | 32             | 61          | 26              | ..            | 8              | ..                      | 66                     | 235                         | 3.1                                              | 1916       | 25.5   | 168                                  |
| St. George-in-the-East .....     | 45,493                                      | 53                                    | 485            | 240         | ..            | 44             | 1                       | 5                | 112         | 1        | 94                                         | 20.7                                 | 1          | 32       | 14             | 62          | 23              | ..            | 4              | ..                      | 85                     | 221                         | 4.9                                              | 1403       | 30.8   | 209                                  |
| Limehouse .....                  | 57,115                                      | 80                                    | 710            | 240         | 3             | 115            | 1                       | 6                | 186         | ..       | 134                                        | 23.5                                 | 8          | 21       | 35             | 61          | 64              | 1             | 18             | ..                      | 61                     | 269                         | 4.7                                              | 1613       | 28.2   | 205                                  |
| Mile End Old Town .....          | 108,041                                     | 115                                   | 1179           | 352         | ..            | 146            | ..                      | 5                | 282         | ..       | 207                                        | 19.2                                 | 8          | 39       | 40             | 80          | 44              | ..            | 29             | ..                      | 121                    | 361                         | 3.3                                              | 2430       | 22.5   | 149                                  |
| Poplar .....                     | 169,141                                     | 217                                   | 1883           | 1149        | 1             | 390            | 36                      | 10               | 566         | 1        | 425                                        | 25.1                                 | 12         | 32       | 105            | 168         | 74              | 1             | 62             | ..                      | 185                    | 639                         | 3.8                                              | 3905       | 23.1   | 169                                  |
| <i>South Districts.</i>          |                                             |                                       |                |             |               |                |                         |                  |             |          |                                            |                                      |            |          |                |             |                 |               |                |                         |                        |                             |                                                  |            |        |                                      |
| St. Saviour, Southwark .....     | 26,854                                      | 18                                    | 210            | 89          | ..            | 21             | ..                      | 1                | 54          | ..       | 38                                         | 14.6                                 | ..         | 6        | 18             | 17          | 20              | ..            | 3              | ..                      | 18                     | 82                          | 3.1                                              | 649        | 24.2   | 154                                  |
| St. George, Southwark .....      | 59,953                                      | 80                                    | 594            | 189         | 1             | 46             | 2                       | 4                | 144         | 1        | 109                                        | 17.7                                 | 7          | 35       | 42             | 45          | 74              | ..            | 13             | ..                      | 70                     | 286                         | 4.8                                              | 1700       | 28.4   | 206                                  |
| Newington .....                  | 117,672                                     | 64                                    | 1101           | 478         | ..            | 66             | 1                       | 6                | 284         | 1        | 200                                        | 17.0                                 | 6          | 34       | 51             | 93          | 109             | ..            | 13             | ..                      | 126                    | 432                         | 3.7                                              | 2856       | 24.3   | 176                                  |
| St. Olave, Southwark .....       | 12,903                                      | 11                                    | 117            | 32          | ..            | 6              | ..                      | 1                | 36          | ..       | 20                                         | 15.7                                 | 1          | 1        | 6              | 7           | 5               | ..            | 2              | ..                      | 9                      | 29                          | 2.2                                              | 312        | 24.2   | 141                                  |
| Bermondsey .....                 | 84,246                                      | 55                                    | 570            | 229         | 1             | 47             | 1                       | 5                | 188         | ..       | 104                                        | 13.0                                 | 4          | 36       | 30             | 80          | 46              | 1             | 8              | ..                      | 70                     | 275                         | 3.3                                              | 2004       | 23.8   | 168                                  |
| Rotherhithe .....                | 40,620                                      | 90                                    | 302            | 106         | ..            | 29             | 3                       | 4                | 80          | ..       | 61                                         | 15.5                                 | 13         | 10       | 16             | 31          | 33              | ..            | 8              | ..                      | 25                     | 136                         | 3.4                                              | 927        | 23.2   | 165                                  |
| Lambeth .....                    | 280,284                                     | 103                                   | 2247           | 829         | 2             | 159            | 59                      | 27               | 581         | 30       | 403                                        | 14.4                                 | 5          | 113      | 69             | 185         | 151             | 1             | 36             | 4                       | 197                    | 761                         | 2.7                                              | 5749       | 20.5   | 149                                  |
| Battersea .....                  | 158,105                                     | 116                                   | 1491           | 660         | 2             | 128            | 9                       | 19               | 432         | 1        | 283                                        | 18.1                                 | 12         | 93       | 40             | 167         | 114             | ..            | 22             | ..                      | 122                    | 570                         | 3.6                                              | 2980       | 18.9   | 169                                  |
| Wandsworth .....                 | 172,143                                     | 34                                    | 1291           | 453         | 1             | 118            | 5                       | 20               | 380         | 2        | 239                                        | 13.4                                 | 1          | 36       | 53             | 113         | 81              | ..            | 18             | 1                       | 119                    | 422                         | 2.5                                              | 2617       | 15.2   | 142                                  |
| Camberwell .....                 | 245,143                                     | 143                                   | 1854           | 515         | ..            | 141            | 5                       | 23               | 436         | 8        | 312                                        | 12.8                                 | 11         | 83       | 73             | 130         | 109             | ..            | 27             | ..                      | 186                    | 619                         | 2.5                                              | 4724       | 19.3   | 161                                  |
| *GREENWICH .....                 | 171,120                                     | 183                                   | 1469           | 491         | ..            | 115            | 5                       | 22               | 357         | ..       | 264                                        | 15.4                                 | 13         | 103      | 71             | 147         | 100             | ..            | 28             | 1                       | 143                    | 606                         | 3.5                                              | 3510       | 20.5   | 165                                  |
| Lewisham (excluding Penge) ..... | 77,473                                      | 26                                    | 567            | 207         | ..            | 45             | ..                      | 8                | 171         | ..       | 102                                        | 13.2                                 | 5          | 19       | 11             | 53          | 8               | ..            | 9              | 1                       | 29                     | 135                         | 1.7                                              | 1133       | 14.6   | 128                                  |
| Woolwich .....                   | 41,854                                      | 61                                    | 258            | 27          | ..            | 28             | 2                       | 1                | 50          | 2        | 45                                         | 10.2                                 | 4          | 14       | 16             | 8           | 20              | ..            | 5              | 1                       | 33                     | 101                         | 2.4                                              | 842        | 20.1   | 160                                  |
| Plumstead .....                  | 94,596                                      | 60                                    | 765            | 237         | ..            | 44             | 3                       | 10               | 132         | ..       | 123                                        | 13.2                                 | 2          | 53       | 48             | 85          | 32              | ..            | 11             | ..                      | 54                     | 285                         | 3.0                                              | 1547       | 16.4   | 137                                  |
| Port of London .....             | ....                                        | 10                                    | 2              | ..          | ..            | 20             | ..                      | ..               | 2           | ..       | ..                                         | ..                                   | ..         | ..       | ..             | ..          | ..              | ..            | ..             | ..                      | ..                     | ..                          | ..                                               | ..         | ..     | ..                                   |

\* This refers to the whole of the District.

† Including 668 cases of Membranous Croup.

‡ Including Deaths from Membranous Croup.



Table No. 13.

METEOROLOGICAL TABLE FOR LONDON, 1893.

(Deduced from Observations, at Greenwich, under the Superintendence of the Astronomer-Royal, and compiled from Quarterly Tables, furnished to the Registrar-General by James Glaisher, Esq., F.R.S.)

| Winter<br>Spring<br>Summer<br>Autumn | Jan., Feb., March.<br>April, May, June.<br>July, Aug., Sept.<br>Oct., Nov., Dec. | Temperature of |                                  |                   |                                 |       |                                 |                  |       | Elastic Force of Vapour.        |        | Weight of Vapour in a Cubic Foot of Air. |                                  | Degree of Humidity.             |       | Reading of Barometer.           |        | Weight of a Cubic Foot of Air.  |         | Rain.                           |                         | Reading of Thermometer on Grass. |     |                          |                           |      |
|--------------------------------------|----------------------------------------------------------------------------------|----------------|----------------------------------|-------------------|---------------------------------|-------|---------------------------------|------------------|-------|---------------------------------|--------|------------------------------------------|----------------------------------|---------------------------------|-------|---------------------------------|--------|---------------------------------|---------|---------------------------------|-------------------------|----------------------------------|-----|--------------------------|---------------------------|------|
|                                      |                                                                                  | Air.           |                                  | Evapora-<br>tion. | Dew Point.                      |       | Air—<br>Daily Range.            |                  | Mean. | Diff. from Average of 52 Years. | Mean.  | Diff. from Average of 52 Years.          | Mean (Sat <sup>u</sup> . = 100). | Diff. from Average of 52 Years. | Mean. | Diff. from Average of 52 Years. | Mean.  | Diff. from Average of 52 Years. | Amount. | Diff. from Average of 78 years. | Number of Nights it was |                                  |     | Lowest Reading at Night. | Highest Reading at Night. |      |
|                                      |                                                                                  | Mean.          | Diff. from Average of 122 Years. | Mean.             | Diff. from Average of 52 Years. | Mean. | Diff. from Average of 52 Years. | At or below 30°. |       |                                 |        |                                          |                                  |                                 |       |                                 |        |                                 |         |                                 | Between 30° and 40°.    | Above 40°.                       |     |                          |                           |      |
| 1893.                                | .                                                                                | .              | .                                | .                 | .                               | .     | .                               | .                | .     | in.                             | in.    | grs.                                     | gr.                              |                                 |       | ins.                            | in.    | grs.                            | grs.    | Sums.<br>ins.                   | ins.                    | Sums.                            | .   | .                        |                           |      |
| YEAR ..                              | 51.1                                                                             | +2.5           | +1.9                             | 47.1              | +0.8                            | 43.3  | -0.2                            | 17.8             | +2.3  | .290                            | -.004  | 3.3                                      | -0.2                             | 76                              | -7    | 29.815                          | +0.042 | 541                             | -1      | 20.13                           | -4.98                   | 79                               | 154 | 132                      | 13.9                      | 58.1 |
| Winter Qr.                           | 40.9                                                                             | +2.1           | +1.2                             | 38.6              | +0.8                            | 35.8  | +0.6                            | 13.5             | +1.8  | .211                            | +0.005 | 2.4                                      | 0.0                              | 84                              | -1    | 29.797                          | +0.025 | 552                             | 0       | 4.60                            | -0.35                   | 37                               | 47  | 6                        | 13.9                      | 43.1 |
| Spring do.                           | 57.0                                                                             | +4.7           | +4.2                             | 50.9              | +1.9                            | 45.3  | 0.0                             | 24.8             | +4.8  | .305                            | -.002  | 3.4                                      | -0.1                             | 65                              | -13   | 29.905                          | +1.126 | 535                             | -3      | 1.47                            | -4.31                   | 8                                | 44  | 39                       | 24.7                      | 52.0 |
| Summer do.                           | 61.9                                                                             | +2.2           | +1.8                             | 56.7              | +0.4                            | 52.3  | -0.7                            | 20.6             | +1.0  | .395                            | -.009  | 4.4                                      | -0.2                             | 71                              | -7    | 29.764                          | -.029  | 528                             | -2      | 5.87                            | -1.44                   | 1                                | 16  | 75                       | 29.0                      | 58.1 |
| Autumn do.                           | 44.6                                                                             | +1.0           | +0.4                             | 42.3              | -0.1                            | 39.8  | -0.7                            | 12.4             | +1.7  | .248                            | -.009  | 2.8                                      | -0.3                             | 84                              | -6    | 29.794                          | +0.045 | 547                             | 0       | 8.19                            | +1.12                   | 33                               | 47  | 12                       | 17.1                      | 55.0 |

In this Table + and - respectively signify that the number in the preceding column is above or below the average to the amount of the quantities to which these signs are affixed.