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BOROUGH OF SUNDERLAND.

REPORT

ON THE

HEALTH AND SANITARY CONDITION
OF THE BOROUGH,
FOR THE YEAR 1875,

BY

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MEDICAL OFFICER OF HEALTH.

Sunderland :

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1876.

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REPORT, 1875.

THE Health of the Borough during the year 1875, was very satisfactory—Portsmouth and Sunderland, according to the returns of the Registrar General, being the two healthiest of the 18 large cities and towns of England.

The total number of births registered during the year was 4,509, and of deaths, 2,385, showing a natural increase of population of 2,124 of which number, 1,063 were males, and 1,061 were females.

BIRTHS.

Of the births, 2,291 were males, and 2,218 were females, making the birth-rate of the Borough, 42·5 per 1,000 of the population—being the second highest birth-rate in the kingdom.

Of the 4,509 children, whose births were registered during the year, 550 or a little more than 12 per cent, died before the 31st of December.

In the four Registration Districts, which comprise the Borough, the birth-rate was highest in North and South Bishopwearmouth, being 46·4 and 46·1 per 1,000 respectively, and lowest in Sunderland and Monkwearmouth, viz., 37·7 and 36·7 respectively.

The highest number of births was registered in the first and third quarters of the year, namely, 1,187 and 1,182, the lowest number, 1,068, being registered in the last quarter.

The total number of deaths registered within the Borough during the year was 2,385, of which 1,228 were males, and 1,157 were females, making the death-rate of the Borough during the year 22·4 per 1,000 of the population, as compared with a rate of 23·6 in the year 1874. Of the 2,385 deaths, 1,163 were those of children under 5 years of age, of which number 763 were under a year old. 741 persons died between the ages of 50 and 60 years. 396 between 60 and 80, 78 between 80 and 90, and 7 between 90 and 100 years old.

DEATHS.

REPORT.

Notwithstanding a severe and fatal Epidemic of Whooping Cough, and an estimated increase of 3,000 to the population, the total number of deaths was 50 less than in the previous year.

The number of deaths registered in each week during the year ranged from 32 in the week ending June 5th, to 64 in the weeks ending March 2nd and October 20th.

There was a decrease of Mortality in each of the four registration districts into which the Borough is divided.

In the Sunderland District, where the population is very dense, and the people themselves belong to the very lowest class of society, the death-rate which a few years ago used to be at the rate of 30 per 1,000, last year was but 24·6. This reduction of the rate, without doubt, being due to the carrying out of the Town Improvement Bill, by which all the old fever dens, and close lanes and alleys, have been swept away; and it may be noted, as a remarkable fact, that in this district, which was formerly never free from Typhus, only 2 deaths from Fever were registered during the year; and that, from the returns made weekly by Dr. Evans, the able Poor Law Medical Officer of that district, no pauper cases of Fever were under his treatment during the whole of the year.

In North Bishopwearmouth District, the death-rate was 24·6 per 1,000, being the same as that of Sunderland; but it must be remembered that in this district the Workhouse is situated, into which paupers are admitted from all parts of the Union. The Workhouse Fever Hospitals are also in this district, into which persons suffering from Infectious Diseases are admitted. During the year, 122 deaths took place in the Workhouse Hospitals, which increased the death-rate of the district from 20·4 to 24·6.

An outbreak of Typhus, caused by overcrowding and unsanitary condition of premises, occurred in this district in the early part of the year, but the further progress of the disease was happily checked by the removal of a whole family of 6 persons to the Fever Hospital, and the thorough cleansing and disinfection of the house.

In South Bishopwearmouth District, which is becoming densely populated, the death-rate was 23·3 per 1,000 ; but by deducting the 44 deaths which took place in the Infirmary, which is situated in the district, the rate is reduced to 22·0 per 1,000.

The Monkwearmouth District, which, during the previous year or two, had been exceptionally healthy, and had the lowest death-rate of any portion of the Borough, maintained its enviable position last year with a death-rate so low as 17·4 per 1,000 as against a rate of 18·5 in the year 1874. Two outbreaks of Typhus Fever, caused by overcrowding, took place in this district during the year, but by prompt action, and the isolation and the removal of the patients to Hospital, the further progress of the disease was checked.

Turning our attention to the causes of death, we find that of the 2,385 deaths 21 were ascribed to Typhus and Enteric or Typhoid Fever respectively, 61 to Scarlatina, 133 to Whooping Cough, 141 to Diarrhoea, 8 to Diphtheria, and 5 to Measles, and none to Smallpox, making a total of 390 deaths from the seven principal forms of Zymotic disease, being equal to a death-rate of 3·6 per 1,000 of the population, and forming 16·3 per cent. of the total deaths.

CAUSES OF
DEATH.
Zymotic
Diseases.

The deaths from this class of diseases show a decrease to the number of 70 as compared with the previous year, the decrease being in number as follows :—Fever, 11, Scarlatina, 79, Measles, 54, Diarrhoea, 24, and Diphtheria, 5 ; against these must be placed the increased number of deaths from Whooping Cough, from which disease 133 children died, as against 17 only in 1874.

In all cases of deaths from infectious or contagious diseases, and also in cases of illness from such diseases, brought under the notice of the Medical Officer, careful enquiry was made as to the predisposing and existing causes of the disease, the premises occupied by the patients were visited, notices served to cleanse and disinfect the same, and proper instructions given as to the best means to be adopted to prevent the further progress of such disease.

REPORT.

In 22 instances, the rooms were disinfected by one of the Sanitary Inspectors, and 688 houses and rooms were visited by the Medical Officer and Sanitary Inspectors on account of infectious diseases prevailing therein.

That Zymotic Diseases might be to a very great extent stamped out or prevented, there is no reason to doubt, provided Local Sanitary Authorities were provided with the power necessary for carrying out such a process, but as the law at present exists, the difficulties in the way of preventing the spread of infectious disease are very great, arising principally from the inability of obtaining accurate information as to the first outbreak of such disease. True it is that the Medical Officers of Health receive intimation from the Registrars immediately a death from infectious disease is registered, and also from the Poor Law and a few other Medical Practitioners, of all cases coming under their care, but scores of cases which arise are never reported to him at all, either by the medical man in attendance, or by the relatives of the patients—as a consequence of which no preventative means can be taken, the disease is communicated to other persons, and so carried to all parts of the town. Time after time has this been proved to be the case during the past year, especially with reference to Scarlatina and Fever, and the sooner some additional power was given to Local Authorities, the better. It should be made obligatory on every householder to give immediate information to the Medical Officer of Health of the existence of any infectious disease in his house, and also upon every Medical man in attendance upon a person suffering from contagious or infectious disease, to give notice to the same officer of the name and address of the person so suffering, for which notice he should be entitled to a fee; further than this, some mark should be placed upon a house in which infectious disease exists, and any person, except those in attendance upon the patient, found entering such house, should, on summary conviction, be liable to a fine. A regulation, such as proposed, might seem at first sight to be somewhat arbitrary, and an infringement of the liberty of the subject, but the utterly, one might almost say criminally, reckless manner in which

women with children enter infected houses, and carry disease and death to themselves and their neighbours, requires the application of a sharp remedy. Men, among the lower classes, are very much more careful in regard to infection than women—many of whom, regardless of consequences to themselves or their families, rush into infected houses, either to gratify an idle curiosity, or to take part in a wake, or such like carousal. To give one instance, out of many :—only recently, a young man came home ill from sea, and died of Typhus Fever; on the Inspector visiting the house after the funeral, for the purpose of disinfecting it, he found a number of women sitting drinking in the room in which the patient had died; he remonstrated with them to no purpose; they would not leave, so he at once set fire to some sulphur,—the sulphurous acid fumes soon became unbearable, when they rushed out, carrying their bottles with them. In another instance, Scarlatina broke out in a shop at the corner of a street; the circumstance was kept very quiet, and no information was given to any one, the result being that scarcely a family in the whole street escaped, between 30 and 40 persons of all ages being attacked by the disease, which fortunately, however, was only fatal in one case. I mention these two cases just to show how necessary it is that some additional power should be given to Local Authorities in reference to outbreaks of Zymotic diseases.

REPORT.

On reference to the Mortality Table, it will be observed that of the 2,385 deaths, 384 were referred to Diseases of the Lungs and Air Passages, of which number 194 were males and 190 were females. The mortality was greatest in children under a year old, 66 males and 49 females having died under that age. At all other ages, the proportion between the sexes was pretty equal. Diseases of the Respiratory Organs are of course attributable to causes over which Sanitary Authorities have no control. At the same time, there is not the least doubt that the mortality of children arising from these diseases might be considerably diminished, were more attention paid by parents and guardians to the clothing of the little ones, as no one can have failed to observe from time to time how hundreds of

Diseases of the
Lungs.

REPORT. children run about our streets clothed in a manner totally inadequate to protect them at inclement seasons of the year. This remark does not apply exclusively to the children of the poor, but also to those of the better classes of society, who are allowed to go about only partially clothed, with a view to their being "hardened," as it is popularly called.

Phthisis.

Phthisis, or Tubercular Disease of the Lungs, proved fatal to 177 persons, 97 of whom were males, and 80 were females. During the last three years there has been a gradual decrease in the number of deaths from this disease in our town, notwithstanding a considerable increase of population.

The respective rates per 1,000 for the year 1873, 74, and 75, having been 2.0, 1.8, and 1.6.

In the Metropolis, this disease causes about a seventh of the deaths at all ages; in Sunderland, it causes a fourteenth of the deaths at all ages; so that the mortality from this disease in London is twice as great in proportion to population as in our own Borough.

Infant Mortality.

As has already been stated, of the total number of deaths recorded, 1,163, or nearly one half, were those of children under 5 years of age, of which number 763 were under a year old. The principal forms of Zymotic Disease caused the deaths of 316 children, of this number, 129 died from Whooping Cough, 124 from Diarrhoea, 39 from Scarlatina, 13 from Fevers, 8 from Diphtheria, and 3 from Measles.

Whooping Cough.

The remarks already made respecting Zymotic Diseases generally, apply with great force to that class of disease as affecting children. Take, for instance, the case of Whooping Cough. This disease is treated so lightly, that children even of the higher classes, who ought to know better, are allowed to go about the streets and associate with their playfellows, without the least regard to consequences, as if it was a disease fraught with no danger either to themselves or others, and yet we see how great was the slaughter of the innocents from this disease alone.

Diarrhoea carried off 124 children, 87 of whom were under a year old, and of which number 49 had been brought up on the "bottle." There was a considerable decrease in the number of deaths from this disease as compared with the previous year, this result being in my opinion to some extent due to the better quality of the Milk supply; the proceedings against the Milk-sellers under the Adulteration of Food Act having resulted in the selling of fairly good Milk, instead of Milk adulterated with from 15 to 40 per cent. of water.

Scarlatina, which was so fatally prevalent in 1874, proved fatal in 39 instances last year. In 8 of these, the disease was contracted by the children being permitted to visit houses where the disease was known to exist. In 24 instances, the children took ill while attending school. In addition to the deaths from this disease, a considerable number of cases of illness were reported—several of which would have been prevented had ordinary precaution been taken at the first appearance of the disease.

The average age at death of children under 5 years of age, was $9\frac{3}{4}$ months.

The average age at death of persons aged 5 years and upwards, was 49 years.

From the returns made by the Medical Officers of the Medical Charities and Poor Law Districts, it would appear that during the year 1875, 8,222 persons, or $7\frac{3}{4}$ per cent. of the entire population of the Borough, received gratuitous Medical and Surgical aid. Of this number, 5,650 persons, or $5\frac{1}{4}$ per cent. of the population, were recipients at the hands of the Medical Charities of the town, and 2,572 persons were under the care of the Poor Law Medical Officers.

Of the 5,650 persons who were patients at the several Medical Institutions, 165 died; 44 of which Deaths took place in the Infirmary, and of the 2,572 pauper cases, 260 died, 122 of which Deaths occurred in the Workhouse.

REPORT.

In considering these facts, it must be remembered that the social conditions of persons treated as paupers, and the nature of the diseases from which they suffer, are widely different from those of that class who become patients at the Medical Institutions,—these differences being more than sufficient to account for the Mortality in the one being greater in proportion to that in the other.

SANITARY
REPORT.

The Sanitary condition of the town during the year has been carefully looked after, and every means taken, as far as practicable under existing arrangements, to have premises kept in a healthy condition, and to have every cause removed which was calculated to produce disease or impair health.

During the year, 9,405 notices were served by the Inspectors for the Sanitary amendment of houses and premises, and 269 persons were summoned before the Magistrates for the infringement of the Public Health and other Acts of Parliament, of which number 167 were convicted and fined; in 92 instances, the summonses were withdrawn on payment of costs—the nuisance having been abated after issue of summonses.

Twenty-four seizures of unsound meat and fruit were made during the year, consisting of 5,020 lbs. of beef, mutton, and pork, and between 3 and 400 lbs. of apples, pears, &c. Five persons were summoned under the Adulteration of Food Act, one of whom was fined 10s. and costs, and the others were dismissed with a caution.

Seven summonses were issued for smoke nuisance, in which 2 orders were made to abate such nuisance, the remainder being dismissed.

The Common Lodging Houses have been inspected both by day and night, and have during the year been kept in a very good and cleanly condition, and compare most favourably with the majority of tenemented houses in the Borough.

The Public Bakehouses, Slaughter Houses, &c., have received their full share of attention, but in no case has it been found necessary to take proceedings respecting them.

With regard to the general cleansing of the town, it may be remembered that in 1874 a recommendation was made by me to the Health Committee to the following effect:—

“That in order to secure a thorough and systematic cleansing of the Ash-pits, so that the town may be kept in a cleanly and healthy condition, and free as far as possible from accumulation of animal and vegetable refuse, so fruitful in the production and spread of disease, the cleansing of such ash-pits should be undertaken and paid for out of the rates, as is done in nearly every large town in the neighbourhood.”

On the motion of Councillor Storey, a Committee was appointed to consider the question of taking into the hands of the Corporation the whole of the cleansing of the town. That Committee reported to the Council—

1st.—That the existing arrangements in Sunderland for cleansing are most defective, and should, on Sanitary and Economic grounds, be remodelled.

2nd.—That the Corporation should undertake the systematic cleansing of the town.

This report, of which the above is a short summary, was received and approved by the Council; and the provisions of a scheme for the cleansing of the Borough on the Manchester and Rochdale systems are now being prepared, so that in a few months' time, it may be hoped, it will be put into operation in one or more portions of the Borough, whereby the health and comfort of the inhabitants will be greatly benefitted.

The advisability of registering Slaughter Houses has engaged the attention of the Health Committee, but so far it has not been deemed necessary to carry out such a system. In my own opinion, the erection of a Public Slaughter House or Abattoir on the North side of the river, in which all animals could be slaughtered on arriving in the town, would be a great public benefit. The driving of cattle through crowded streets is dangerous, and the open manner in which slaughtering is now carried on in shops is an outrage on public decency, and

Slaughter
Houses.

SANITARY
REPORT.Adulteration
of Food.

calculated to have a demoralizing effect upon the people. If slaughtering of cattle in shops is to be allowed, it should only be done at a time when the streets are comparatively empty, viz., between 11 p.m. and 5 a.m.

During the year, 59 articles of food and drink were submitted to me for analysis, namely—31 samples of Milk, 13 of Whiskey and Rum, 7 of Mild and Bitter Ales, 3 of coloured Sweetmeats, and one each of Mustard, Flour, Arrowroot, Condensed Milk, and Water.

Of the 31 samples of Milk, it was only found necessary to prosecute in three instances, in one 18 per cent. of water had been added, for selling which as pure Milk the seller was fined 10s. and costs. In two cases in which 11 and 12 per cent. of water had been added, the sellers were discharged with a caution, and in two similar cases the purchaser declined to prosecute.

From the results of the analyses, it may be stated that the Milk now sold in the Borough shows a marked contrast to that sold at the time when the Adulteration of Food Act was first put into operation. At that time, 60 per cent. of the samples submitted for analysis were found to be adulterated by the addition of water varying in quantity from 10 to 40 per cent.; whereas, during the past year 15 per cent. only were adulterated, and that in a much less degree.

The quality of the Spirits analysed varied in strength from 13 to 36½ under proof. The samples were examined chemically and microscopically, but no adulteration was found.

The samples of Mild and Bitter Ales, although varying considerably in the amount of absolute Alcohol, Malt Extract, and free Acids they contained, were found free from adulteration.

The coloured Sweetmeats were found not to have been coloured with any poisonous ingredient.

The sample of Water obtained from a well in Bishopwearmouth Cemetery, and which had occasionally been drunk by persons visiting that place, was found to be charged with a considerable amount of organic matter, and quite unfit for drinking.

March, 1876.

APPENDIX.

APPENDIX

III.

BIRTHS.

TABLE OF BIRTHS.

Registered in the Borough, from January 1st to December 31st, 1875.

Districts.	First Quarter.		Second Quarter.		Third Quarter.		Fourth Quarter.		Total.		Total.	Rate per 1000.
	M	F	M	F	M	F	M	F	M	F		
Sunderland	84	87	89	94	87	81	69	102	329	364	693	37.7
South Bishopwearmouth	200	184	196	171	178	192	183	173	757	720	1477	46.1
North Bishopwearmouth	198	181	185	150	166	164	160	143	709	638	1347	46.4
Monkwearmouth	129	124	149	118	106	128	112	126	496	496	992	36.7
	611	576	619	533	537	565	524	544	2291	2218	4509	
Totals	1187		1152		1102		1068		4509		4509	42.4
Rate per 1000	11.7		10.8		10.3		10.0		42.4			

IV.
DEATHS.

TABLE OF DEATHS.
Registered in the Borough for the Year ending December 31st, 1875.

Districts.	Population	Average.	Population per Acre.	First Quarter.		Second Quarter.		Third Quarter.		Fourth Quarter.		Totals.		Total.	Rate per 1000.
				M	F	M	F	M	F	M	F	M	F		
Sunderland	18342	164	111·8	75	55	52	63	54	49	55	49	236	216	452	24·6
South Bishopwearmouth ..	32000	927½	34·5	117	95	91	88	93	101	93	70	394	354	748	23·3
North Bishopwearmouth ..	29000	957½	30·3	116	111	90	76	79	92	84	67	369	346	715	24·6
Monkwearmouth	27000	719	37·5	67	71	50	49	63	57	49	64	229	241	470	17·4
				375	332	283	276	289	299	281	250	1228	1157	2385	22·4
Totals	106342	2768	38·4	707		559		588		531		2385		2385	22·4
Rate per 1000				6·6		5·2		5·5		5·0		22·4			

OCCUPATION of PERSONS, 20 Years of Age and upwards, who Died from the Diseases mentioned during the Year.

(Given as accurately as the Returns allowed.)

Occupation.	Heart Disease.	Phthisis.	Disease of Lungs.	Apoplexy	Paralysis.	Cancer.	Total.
Auctioneers	1	...	...	...	...	...	1
Agents	1	1	...	1	...	...	3
Bottlemakers ... ..	...	3	...	...	...	...	3
Brass Finishers ... ..	...	2	...	...	...	...	2
Brakesmen	1	...	...	...	1	...	2
Blacksmiths	1	1	1	1	2	...	6
Brickmakers ... ..	...	1	...	...	1	...	2
Bakers ... ..	...	...	...	...	...	1	1
Booksellers ... ..	...	...	1	...	...	...	1
Bill Distributors ... ..	...	...	...	1	...	...	1
Blockmakers ... ..	...	1	...	...	...	...	1
Coal Trimmers ... ..	...	1	...	...	1	...	2
Cabinet Makers & Joiners	1	6	...	...	3	...	10
Coopers	1	...	...	...	...	...	1
Chemists ... ..	...	1	...	...	...	...	1
Cab Drivers	1	...	...	...	...	...	1
Clerks ... ..	...	...	...	...	2	1	3
Cartmen	2	2	2	1	...	...	7
Cordial Makers ... ..	...	1	...	...	...	...	1
Charwomen	1	...	...	...	...	...	1
Collectors	1	...	...	...	...	...	1
Chain Makers	1	1	...	...	...	...	2
Cellarmen ... ..	...	...	...	...	...	1	1
Draughtsmen ... ..	...	1	...	...	...	...	1
Drapers ... ..	...	1	...	...	...	...	1
Engine Fitters ... ..	...	2	...	...	...	...	2
Earthenware Dealers	...	1	...	...	...	...	1
Eating House Keepers...	...	1	...	...	...	...	1
Firemen ... ..	...	1	...	...	1	...	2
Glass Cutters	1	...	...	...	...	...	1
Gardeners ... ..	...	2	...	...	...	...	2
Grocers... ..	3	...	...	...	1	...	4
Gas Inspectors ... ..	...	1	...	...	...	...	1
Gentlemen ... ..	...	...	1	...	...	...	1
Glass Makers ... ..	...	...	...	1	...	...	1
Hatters... ..	...	1	...	...	...	...	1
Carried forward...	16	32	5	5	12	3	73

OCCUPATION OF PERSONS.—Continued.

Occupation.	Heart Disease.	Phthisis.	Disease of Lungs.	Apoplexy	Paralysis	Cancer.	Total.
Brought forward ...	16	32	5	5	12	3	73
Hinds	1	...	...	...	...	...	1
Hawkers	1	1	...	...	1	...	3
House Builders ...	...	...	...	1	...	...	1
Iron Founders ...	...	...	...	1	1	...	2
Keelmen ... ..	...	...	...	1	7	2	27
Labourers	6	9	2	1	...	...	1
Millers ... ..	...	1	...	...	...	...	1
Managers ... ..	...	1	1	...	...	1	3
Miners	3	4	1	1	...	...	9
Mattress Makers ...	...	1	...	...	...	...	1
Publicans and Beer-house Keepers	2	1	...	...	1	...	4
Porters ... ..	...	2	...	...	...	...	2
Painters ... ..	...	1	1	...	1	...	3
Pilots ... ..	...	1	...	2	1	...	4
Police Constables ...	...	1	...	...	...	...	1
Quarryman .. ...	...	...	1	...	...	...	1
Riggers... ..	...	1	...	...	...	...	1
Registrar	1	...	...	...	...	...	1
Rivetters ... ..	...	1	...	...	...	...	1
Seamen	12	9	3	2	3	1	30
Shipwrights	6	6	...	1	5	1	19
Shoemakers	1	2	2	1	1	...	7
Sailmakers ... ..	...	2	...	...	...	...	2
Schoolmasters ... ..	...	...	...	...	2	...	2
Storekeeper	1	...	...	...	...	...	1
Sawyers	1	...	...	1	...	...	2
Shipkeepers	1	1	...	...	...	...	2
Shipowners	2	...	...	1	...	...	3
Tripe preparers... ..	1	...	...	...	...	...	1
Tailors ... ..	...	1	1	1	1	...	4
Travellers ... ..	...	...	...	...	1	...	1
Viewers ... ..	...	1	...	...	...	...	1
Weavers ... ..	...	1	...	...	1	1	2
Watermen	2	...	...	...	...	...	2
Total	57	80	17	18	39	9	219
Females	54	80	54	21	36	23	268
Grand Totals ...	111	160	71	39	75	32	487

VII.

LIST OF STREETS

Wherein ZYMOTIC DISEASES occurred in the Year 1875,
given as accurately as the returns allowed.

SUNDERLAND DISTRICT.

Name of Street.	Fever.	Scarlet Fever.	Measles.	Diphtheria.	Whooping Cough.	Diarrhoea.	Removed to Hospital.	Deaths.
Burleigh Street	4	..	2	3	2	..	10
Bull Open	1	..	..	..	1	1	1
Bank Street	2	1	..	2
Blue Anchor Yard	1	..	..	1
Barracks	1	..	1
Barrack Street	1	..	1
Church Street	3	..	..	1	..	..	2
Chapel Street	1	..	..	..	..	..	..
Covent Garden Street	3	..	..	2
Deans' Yard	7	..	..	1
Fitters' Row	3	2	..	2
Flag Lane	1	..	..	1	1	..	3
Golden Alley	5	..	..	3
George Street	1	..	..	5	..	1	1
Hodgskin Street	2	1	..	2
High Street East	2	..	..	3	2	1	4
Hat Case	1	..	..	3	..	1	2
James Williams Street	2	..	..	..	..	2	..
Low Street..	..	1	..	..	3	2	..	4
Lombard Street	1	..	..	..	1
Moorgate Street	2	..	..	..	1	..	1
Maling's Rigg	1	..	..	1
Maude's Lane	2	..	2
Nesham Square	6	..	..	3
New Grey Street	2	1	..	2
Northumberland Place	1	..	..	1
Palin's Passage	4	1	..	2
Queen Street	1	..	..	3	1	1	2
Robinson's Lane	1	..	..	..	..	1	..
Spring Garden Lane	3	1	..	4	4	1	7
Silver Street	1	..	4	3	..	5
Stafford Street	6	1	..	4
South Dock	2	..	..	..	1	4	1
Vine Street	1	3	..	7	4	..	9
Warren Street	2	..	..	1
Total ..	22	10		3	82	33	13	84

BISHOPWEARMOUTH DISTRICT.

Name of Street.	Fever.	Scarlatina.	Measles.	Diphtheria.	Whooping Cough.	Diarrhoea.	Removed to Hospital.	Deaths.	
Alfred street	1	..	1	
Alderson street	8	..	..	5	
Addison street	4	..	..	1	
Ayre's Quay road	1	..	..	..	..	..	..
Avon street	9	..	..	..	..	3	
Athol terrace	1	..	1	
Albany terrace	1	..	1	
Aiskell street..	1	..	1	
Brougham street	1	..	1	2	1	..	4	
Buxton terrace	1	..	..	1	
Blandford street	2	1	..	2	
Bedford square	2	..	..	..	..	..
Bottle Bank	1	..	..	1	..	2	
Bramwell street	1	..	1	
Cumberland street	2	..	..	1	
Cross Green street	1	..	..	1	
Coronation street	2	..	1	2	..	7	
Clyde street	3	..	..	..	..	2	
Cleft street	2	..	..	..	..	2	
Commercial road	1	..	..	..	1	
Carol street	4	..	..	1	
Cirencester street	1	..	..	1	..	..	2	
Cross Farrington row	3	..	..	..	..	1	2	
Crescent row	2	..	1	
Chipchase street	1	..	1	
Catherine street, Deptford..	1	..	1	
Cromwell street	1	..	..
Crow street	1	..	..	..	..	..	..
Derwent street	1	..	..	..	..	1	
Dove street	8	..	..	3	
Derby street	1	..	..	1	
East street	3	1	2	1	..	6	
Emma street	1	..	..	..	..	..
East Cross street	1	..	..	..	..	1	
East Woodbine street	1	..	..	..	..	..
Elwin terrace..	1	..	..	..	..	1	
Ethel street	3	..	..	1	
Fore street	1	..	..	..	1	..	1	
Ford street	2	..	..	1	
Franklin street	1	..	..
Farrington row	2	..	..	..	..	..	..
Green street	1	..	..	..	..	1	
Grafton street	1	..	..	..	..	1	
Garden place	1	2	..	..	3	..	4	
Garden street..	..	1	..	..	..	1	1	1
George street, Deptford	2	..	2	
Hort street	1	..	..	..	..	..	1	
Hopper street..	2	..	1	..	..	2	
Hope street	3	..	1	
Carried forward..	..	13	33	3	2	49	21	2	76

IX.

BISHOPWEARMOUTH DISTRICT.—Continued.

Name of Street.	Fever.	Scarlatina.	Measles.	Diphtheria.	Whooping Cough.	Diarrhoea.	Removed to Hospital.	Deaths.
Brought forward ..	13	33	3	2	49	21	2	76
Hume street	3	..	..	..
Hanover place	3	..	..	2
Hedley street..	..	4	..	..	4	..	..	4
Henry street	3	..	..	6	..	..	3
Hendon road	1	1
Hind street	8	..	..	..	..	6	1
Hylton road	2	..	..	..	..	..	1
Hill street	1	..	..	..	..	..
Hendon street	3	..	..	1
Hodgson's buildings..	1	..	..	1
Herrington street	1	..	..	..	2	..	3
Harrogate street	1	..	..	..	..	..	1
High street West	1	..	1
Hillfield	1	..	1
Hedworth street	1	..	1
Infirmery	1	..	..	..	..	1	..
John street	1	..	..	..	..	..	1
Jobling street	1	..	..	..	1	1	..
John street, Ballast Hills	1	..	..	..	..	..	..
King street	1	..	..	1
Low row	2	..	..	1
Lisburn terrace	3	1	..	2
Lambton street	1	..	..	1
Lawrence street	1	..	..	3	1	..	3
Lilburn street	1	..	..	..	..	..	1
Millfield	5	..	..	..	..	..	..
Matlock street	1	..	..	..	1	..	2
Milburn street	1	..	..	1
Mowbray terrace	1	..	..	1
Moor street	2	2	..	3
Mainsforth terrace	1	..	..	1	..	..	2
Mabel terrace..	2	..	..	1
Moor terrace	1	..	..	..	..	..	..
Norman street	4	16	..	2	2	..	10
North Milburn street	1	..	..	..	..	..	1
Nile street	1	1	..	..	1	1	2
North Durham street	2	..	..	..	..	..	1
New Durham road	1	..	1	..	2
North Rutland street	4	..	..	1
Number's Garth	6	2	..	4
North Johnson street	2	..	..	2	..	1	2
Northumberland street	3	..	..	4	3	..	5
Norfolk street	1	..	..	1
Nelson street	1	..	1
North Milburn street	1	..	1
Oak street	1	..	1
Parade	2	2	..	..	1	..	3
Palmer street..	1	..	..	1
Carried forward..	44	74	4	3	106	45	13	153

X.

BISHOPWEARMOUTH DISTRICT.—Continued.

Name of Street.	Fever.	Scarlatina.	Measles.	Diphtheria.	Whooping Cough.	Diarrhoea.	Removed to Hospital.	Deaths.
Brought forward ..	44	74	4	3	106	45	13	153
Pan lane	1	..	..	..	..	..	..	1
Potts street	1	..	..	..	..	1	..	1
Page street	1	2	..	..	..	..	..	1
Press lane .. ..	..	..	..	..	..	1	1	..
Queen street	1	..	..	..	2	..	..	2
Rutland street	1	..	..	..	4	..	..	2
Robinson street	2	..	..	..	..	..	..	1
Robinson terrace .. ..	..	2	..	..	..	..	..	2
Ridley terrace .. ..	..	2	..	..	..	..	..	1
Ropery walk .. ..	..	..	..	..	1	..	..	1
Ryhope road	1	..	..	..	..	..	..	1
South Durham street .. ..	..	4	..	..	5	..	..	5
South Johnson street	1	2	..	..	..	1	1	1
Shakespeare terrace .. ..	..	..	..	..	2	1	..	2
Sunderland street	1	..	..	..	..	..	1	..
St. Vincent street	1	..	..	..	..	..	..	1
Spark terrace	1	..	..	..	..	..	..	..
Sans street	1	4	1	..	2	..	1	..
South street .. ..	..	..	..	..	..	1	..	1
Sea Bank place .. ..	..	..	..	..	..	1	..	1
Spelter Works road .. ..	..	9	..	..	..	..	..	..
Tatham street	2	..	..	..	..	..	..	2
Trewhitt's buildings	1	1	..	..	..	..	..	2
Tyne street .. ..	..	2	..	..	5	..	..	4
Trewhitt's crescent .. ..	..	..	..	..	4	..	..	1
Tweed street .. ..	..	..	..	..	1	..	..	1
Tower street	1	..	..	..	..	..	..	1
Tees street	3	..	..	..	..	..	1	1
The Royalty .. ..	..	..	..	..	..	1	..	1
Upper Sans street .. ..	..	3	..	..	..	1	..	1
Union street .. ..	..	1	..	..	..	1	..	2
Villiers street .. ..	..	2	..	..	..	..	1	..
Washington street .. ..	..	3	..	..	..	..	..	1
Ward street	1	..	..	..	2	1	..	3
Water street .. ..	..	..	..	..	2	..	..	1
Williams street .. ..	..	..	..	..	7	..	..	4
Wear street .. ..	..	3	..	..	5	1	..	6
Wall street .. ..	..	..	..	..	2	..	..	1
Westbury street	1	..	..	..	..	..	..	1
West Wear street .. ..	..	..	..	..	..	1	..	1
Waterworks road .. ..	..	..	..	..	..	1	..	1
William street .. ..	..	..	..	..	..	1	..	1
Woodbine street .. ..	..	..	..	..	..	1	..	1
Woodbine terrace, Pallion .. ..	..	..	..	..	..	1	..	1
Zion street	1	..	..	..	1	1	..	3
Total	69	112	5	3	151	62	19	218

MONKWEARMOUTH DISTRICT.

Name of Street.	Fever.	Scarlatina.	Measles.	Diphtheria.	Whooping Cough.	Diarrhoea.	Removed to Hospital.	Deaths.
Albany street .. ..	..	..	..	..	..	1	..	1
Bonner's field	1	4	..	..	..	..	1	..
Bond street .. ..	..	1	..	..	..	2	..	3
Bloomfield street ..	..	..	1	..	..	1	..	1
Barclay street .. ..	..	..	..	..	2	2	..	3
Back stables .. ..	..	..	..	..	..	1	..	1
Burns' yard .. ..	..	..	..	..	..	1	..	1
Blue Bell yard .. ..	..	..	..	..	..	..	..	..
Church street	3	..	1	..	..	1	..	4
Causeway .. ..	..	2	..	..	..	..	..	1
Calver street .. ..	..	..	..	..	1	..	..	1
Charles street .. ..	..	..	..	..	..	3	..	3
Dundas street .. ..	..	..	..	..	1	..	..	1
Duke street .. ..	..	..	..	..	3	..	..	1
Dock street	5	..	..	..	..	..	2	..
Dame Dorothy street ..	..	..	..	..	..	3	..	3
Devonshire street ..	..	..	..	..	..	1	..	1
Dove's open .. ..	..	..	..	..	..	1	..	1
Eglinton street .. ..	..	..	..	1	..	..	..	1
Gosforth street	4	..	..	..	..	2	3	3
Huddlestons street ..	..	..	..	..	..	1	..	1
Hood street .. ..	..	..	..	..	2	2	..	3
Hodgson's buildings ..	..	..	..	..	3	..	..	1
Howick place .. ..	..	1	..	..	..	1	..	2
Hamilton street	1	..	..	..	..	1	..	1
Howick street .. ..	..	1	..	..	..	..	..	1
Hardwicke street .. ..	..	..	..	..	2	1	..	2
Hedworth street	1	..	..	..	..	..	..	..
Long row	1	..	..	..	..	2	..	3
Liddell street .. ..	..	..	..	..	..	1	..	1
Millum terrace	1	..	..	..	..	1	..	2
North Bridge street ..	..	5	..	4	2	..	..	2
Normanby street .. ..	..	..	3	..	..	..	..	..
North Quay .. ..	..	..	..	..	..	1	..	..
Pilgrim street .. ..	..	..	..	..	1	..	..	1
Roker avenue .. ..	..	..	..	..	..	4	..	4
Rendlesham street ..	..	..	..	..	1	..	..	1
Richmond street	1	..	..	..	5	..	..	2
Ropery row	2	..	..	..	..	..	..	..
Ravensworth terrace ..	..	..	..	..	..	1	..	1
St. George's terrace ..	1	..	..	..	..	..	..	1
Sheepfolds .. ..	..	..	..	..	..	2	..	2
Stobart street .. ..	..	..	..	..	..	1	..	1
Society lane .. ..	..	..	5	..	..	..	..	1
Victor street .. ..	..	..	..	..	..	2	..	2
Williamson terrace ..	..	..	..	..	1	..	..	1
Whitburn street	1	2	..	..	..	1	..	2
Waterloo street	1	..	..	..	2	..	..	2
Carried forward.....	23	16	10	5	26	41	6	70

XII.

MONKWEARMOUTH DISTRICT.—Continued.

Name of Street.	Fever.	Scarlatina.	Measles.	Diphtheria.	Whooping Cough.	Diarrhoea.	Removed to Hospital.	Deaths.
Brought forward ..	23	16	10	5	26	41	6	70
Waterloo place ..	..	1	..	..	..	..	..	1
Wilson street ..	..	3	..	..	3	..	..	2
Wear street ..	..	..	..	..	2	..	..	1
Wayman street ..	..	..	..	..	..	1	..	1
Zetland street ..	..	..	1	..	..	1	..	1
Total ..	23	20	11	5	31	43	6	76
Sunderland District ..	22	10	..	3	82	33	13	84
Bishopwearmouth District	69	112	5	3	151	62	19	218
Monkwearmouth ..	23	20	11	5	31	43	6	76
Grand Totals ..	114	142	16	11	264	138	38	378

*DEATHS from ZYMOTIC DISEASES during the
Five Years ending Dec. 31st, 1875.*

Years.	Deaths.	Percentage of Total Deaths	Rate per 1,000 of whole Borough	Population of whole Borough
1871	1552	43·0	15·5	100,000
1872	543	20·0	5·3	101,000
1873	337	14·3	3·2	103,000
1874	460	18·8	4·4	103,000
1875	390	16·3	3·6	106,300

DEATHS FROM ZYMOTIC DISEASES.

	Sunderland. Population, 18,300.				South Bpwearmouth. Population, 32,000.				North Bpwearmouth. Population, 29,000.				Monkwearmouth. Population, 27,000.				Whole Borough 166,300.	
	First Quarter.	Second Quarter.	Third Quarter.	Fourth Quarter.	First Quarter.	Second Quarter.	Third Quarter.	Fourth Quarter.	First Quarter.	Second Quarter.	Third Quarter.	Fourth Quarter.	First Quarter.	Second Quarter.	Third Quarter.	Fourth Quarter.	Totals.	Rate per 1,000.
Smallpox .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Typhus	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	21	.18
Typhoid	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	21	.18
Scarlatina	6	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	61	.57
Measles .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	.04
Whooping Cough	15	16	8	2	12	14	9	2	25	2	8	2	..	6	6	..	133	1.26
Diphtheria	2	..	..	1	1	..	1	..	1	..	1	..	..	..	..	..	8	.07
Diarrhoea	3	1	21	9	2	4	20	8	2	4	18	6	3	4	29	7	141	1.32
Totals	28	18	29	12	29	30	44	20	47	10	32	11	18	12	36	14	390	
Rate per 1000	87				123				100				80				3.6	
Population per Acre	4.7				3.8				3.4				2.9				3.6	
	111.8				34.5				30.3				37.5					

COMPARATIVE MORTALITY OF LARGE TOWNS.

BOROUGH, &c.	Annual Rate of Mortality per 1000 living at all Ages.			Deaths under 1 Year, to 1000 Births Registered	Annual Rate of Mortality per 1,000 living.		Percentage, to Total Deaths, of Deaths.	
	All Causes.	Seven principal Zymotic Diseases.	Violence.		Aged 1 to 60 Years.	Aged 60 Years and upwards.	Registered upon Certificate of the Coroner. (Inquests.)	Registered in large Public Institutions.
In 18 Towns	25.2	4.4	0.9	176	14.9	84.7	6.3	13.9
London.....	23.7	3.9	0.8	162	14.3	78.3	6.8	16.9
Portsmouth	19.5	3.0	0.3	133	11.3	82.0	4.2	11.4
Norwich	24.5	4.3	0.6	210	11.9	74.1	4.5	7.8
Bristol	26.8	4.9	0.9	166	16.6	82.7	5.2	12.1
Wolverhampton.....	24.7	3.3	1.0	161	14.4	94.7	5.4	16.4
Birmingham	26.5	5.8	1.2	196	15.4	87.6	8.6	11.8
Leicester	26.6	6.2	0.6	245	14.0	71.5	5.4	10.3
Nottingham.....	27.7	5.1	1.0	199	16.7	78.5	6.2	10.9
Liverpool	27.5	4.5	1.4	210	13.9	139.2	5.9	15.1
Manchester	29.9	4.6	1.1	184	19.2	99.9	8.9	15.1
Salford	31.5	7.2	0.8	178	20.1	94.1	6.1	8.1
Oldham	29.6	4.1	0.7	177	18.8	96.1	4.4	6.1
Bradford	27.1	5.6	0.6	200	17.1	73.0	3.9	6.8
Leeds	26.4	4.6	0.7	197	15.2	86.3	4.7	7.4
Sheffield	24.8	4.8	0.6	176	14.9	82.7	3.7	8.9
Hull	27.4	6.2	1.0	191	16.3	76.3	3.9	8.3
Sunderland	22.4	3.6	0.8	169	11.9	79.2	4.1	6.9
Newcastle-on-Tyne	26.1	3.6	1.1	187	15.0	88.0	5.3	10.7

RETURN of Cases of Sickness and Deaths among Paupers belonging to the District, and among other persons belonging to the District who have been in or out patients of any Hospital or Dispensary, or other public Medical Institution, within the District.

FIRST QUARTER.					SECOND QUARTER.				
Names of Diseases.	Sickness.		Deaths.		Names of Diseases.	Sickness.		Deaths.	
	Aged under 5.	Aged 5 and upwards.	Aged under 5.	Aged 5 and upwards.		Aged under 5.	Aged 5 and upwards.	Aged under 5.	Aged 5 and upwards.
All Diseases and Injuries	I. 425	II. 1646	III. 20	IV. 100	All Diseases and Injuries	I. 441	II. 1656	III. 25	IV. 93
Smallpox .....	..	..	..	..	Smallpox .....	..	..	..	..
Measles	2	1	..	..	Measles	5	1	..	..
Scarlatina	8	9	1	1	Scarlatina	6	7	..	1
Diphtheria.....	..	..	..	..	Diphtheria.....	..	1	..	..
Whooping Cough....	83	20	4	..	Whooping Cough ..	70	19	6	..
Continued Fevers—					Continued Fevers—				
Typhus	5	14	..	4	Typhus.....	1	5	..	3
Enteric	7	11	3	..	Enteric	3	8	1	2
Of other or doubtful sorts	2	9	..	1	Of other or doubtful sorts	4	18	..	..
Diarrhoea & Dysentery	26	23	1	..	Diarrhoea & Dysentery	30	25	1	1
Cholera .....	..	..	..	..	Cholera .....	..	..	..	..
Rheumatic Fever ....	..	32	..	..	Rheumatic Fever ..	..	25	..	..
Erysipelas .....	..	21	..	..	Erysipelas	1	9	..	..
Pyæmia .....	..	1	..	1	Pyæmia .....	..	2	..	..
Puerperal Fever ....	..	..	..	..	Puerperal Fever ....	..	..	..	..
Ague .....	..	1	..	..	Ague .....	..	..	..	..
Phthisis .....	..	72	..	16	Phthisis .....	..	65	..	28
Bronchitis, Pneumonia and Pleurisy	74	245	7	27	Bronchitis, Pneumonia and Pleurisy	48	155	11	17
Heart Disease .....	..	32	..	10	Heart Disease & Asthma	1	33	..	9
Injuries	21	183	..	3	Injuries	33	247	1	3

XVI.

RETURN OF SICKNESS AND DEATHS

During the Third Quarter, ending September 30th, 1875, and Fourth Quarter, ending December 31st, 1875.

THIRD QUARTER.					FOURTH QUARTER.				
Name of Diseases.	Sickness.		Deaths.		Name of Diseases	Sickness.		Deaths.	
	Aged under 5.	Aged 5 and upwards.	Aged under 5.	Aged 5 and upwards.		Aged under 5.	Aged 5 and upwards.	Aged under 5.	Aged 5 and upwards.
	I.	II.	III.	IV.		I.	II.	III.	IV.
All Diseases and Injuries	577	1499	25	65	All Diseases and Injuries	461	1517	27	1
Smallpox .....	..	..	..	..	Smallpox .....	..	..	..	..
Measles	3	3	..	..	Measles	10	9	..	..
Scarlatina .....	..	3	..	..	Scarlatina	4	2	..	..
Diphtheria.....	..	1	..	..	Diphtheria.....	..	..	..	..
Whooping Cough ..	60	19	5	..	Whooping Cough....	15	3	1	..
Continued Fevers—					Continued Fevers—				
Typhus.....	..	11	..	1	Typhus.....	..	2	..	..
Enteric	3	21	1	3	Enteric.....	1	11	..	..
Of other or doubtful sorts	1	11	..	..	Of other or doubtful sorts	1	3	..	..
Diarrhœa & Dysentery	175	65	11	3	Diarrhœa & Dysentery	92	51	2	..
Cholera .....	..	..	..	..	Cholera .....	..	..	..	..
Rheumatic Fever ....	..	25	..	..	Rheumatic Fever ....	..	21	..	..
Erysipelas	2	7	..	..	Erysipelas	1	9	..	..
Pyæmia .....	..	..	..	..	Pyæmia .....	..	..	..	..
Puerperal Fever ....	..	1	..	..	Puerperal Fever ....	..	1	..	..
Ague .....	..	1	..	..	Ague .....	..	2	..	..
Phthisis	1	108	..	17	Phthisis	1	67	..	..
Bronchitis, Pneumonia and Pleurisy	66	180	3	14	Bronchitis, Pneumonia and Pleurisy	121	282	12	..
Heart Disease & Asthma	..	51	..	9	Heart Disease & Asthma	..	42	..	..
Injuries	25	220	3	6	Injuries	17	224	..	..

XVII.

RETURN OF SICKNESS AND DEATHS

During the Year ending December 31st, 1875.

Name of Disease.	Sickness.		Deaths.	
	Aged under 5.	Aged 5 and upwards.	Aged under 5.	Aged 5 and upwards.
All Diseases and Injuries	I. 1904	II. 6318	III. 98	IV. 327
Smallpox .....	..	..	..	..
Measles	20	14	..	..
Scarlatina	18	21	1	2
Diphtheria.....	..	2	..	..
Whooping Cough.....	228	61	16	..
Continued Fevers—				
Typhus	6	32	..	8
Enteric	14	51	5	5
Of other or doubtful sorts	8	41	..	1
Diarrhoea and Dysentery	323	164	15	5
Cholera—English.....	..	..	..	..
Rheumatic Fever .....	..	103	..	..
Erysipelas	4	46	..	1
Pyæmia .....	..	3	..	1
Puerperal Fever .....	..	2	..	1
Ague .....	..	4	..	..
Phthisis	2	312	..	72
Bronchitis, Pneumonia, & Pleurisy	309	862	33	74
Heart Disease and Asthma	1	159	1	35
Injuries	96	874	4	12

DEATHS IN RELATION TO METEOROLOGY.

Months.	Total Deaths.	Deaths from Zymotics, excluding Diarrhoea, &c.	Principal Disease of Lungs.	Consumption	Disease of Nervous System.	Heart Disease, &c.	Diarrhoea and Dysentery.	Old Age.	Mean Height of Barometer.	Mean Temperature of Air.	Rainfall.
January	221	35	46	17	32	14	3	8	29.68	42.0	2.14
February	205	34	31	13	34	15	1	12	30.00	39.0	0.84
March	250	48	59	23	32	7	4	14	30.08	43.4	0.57
April	239	31	40	20	31	10	4	16	29.98	49.7	0.63
May	160	18	22	12	26	10	2	10	29.88	55.2	0.92
June ..	172	21	18	16	26	9	7	3	29.78	58.4	1.97
July	171	18	25	20	32	6	8	10	29.91	60.3	4.92
August	187	24	20	9	21	7	37	10	29.93	62.5	3.10
September	230	16	16	16	32	10	45	11	29.95	60.3	2.22
October	189	12	28	12	25	11	21	10	29.71	51.9	3.19
November	163	14	32	4	39	6	5	8	29.73	43.3	5.88
December	193	10	36	15	47	14	4	11	29.98	40.2	1.69
Total	2,380	281	373	177	377	119	141	120	29.88	50.5	28.07

TABLE OF METEOROLOGICAL OBSERVATIONS

From January to March, 1875.

JANUARY.						FEBRUARY.						MARCH.					
Barometer.	Thermo- meter.		Direction of Wind.	Rainfall.	Date.	Barometer.	Thermo- meter.		Direction of Wind.	Rainfall.	Date.	Barometer.	Thermo- meter.		Direction of Wind.	Rainfall.	
	Highest.	Lowest.					Highest.	Lowest.					Highest.	Lowest.			
1	30.1	45.0	15.0	S.S.W.	.00	1	30.1	65.0	42.0	S.W.	.00	1	29.9	42.0	31.0	E.S.E.	.10
2	29.6	49.0	22.0	S.W.	.06	2	30.1	53.0	39.0	W.	.00	2	30.0	39.0	33.0	E.N.E.	.01
3	29.6	50.0	35.0	W.S.W.	.23	3	29.8	41.0	34.0	N.W.	.00	3	30.0	40.0	33.0	E.S.E.	.04
4	29.6	45.0	37.0	S.	.26	4	30.0	40.0	32.0	N.	.00	4	30.1	49.0	36.0	S.E.	.01
5	29.7	46.0	35.0	S.S.W.	.00	5	30.3	41.0	30.0	N.W.	.00	5	30.0	52.0	30.0	S.S.E.	.00
6	29.8	48.0	39.0	S.W.	.00	6	30.2	44.0	28.0	S.W.	.00	6	29.7	49.0	32.0	S.S.E.	.00
7	29.9	42.0	38.0	S.S.W.	.00	7	30.4	39.0	34.0	S.S.W.	.04	7	29.4	62.0	38.0	S.S.W.	.10
8	30.0	41.0	38.0	S.	.00	8	30.1	34.0	28.0	S.W.	.05	8	29.8	57.0	43.0	W.	.00
9	29.9	44.0	37.0	S.	.00	9	30.1	36.0	29.0	S.S.W.	.00	9	29.4	55.0	41.0	N.N.W.	.16
10	29.7	43.0	39.0	S.W.	.10	10	30.1	39.0	32.0	W.S.W.	.00	10	30.4	57.0	34.0	N.	.00
11	29.7	46.0	39.0	S.W.	.10	11	30.0	39.0	31.0	W.S.W.	.00	11	30.3	59.0	37.0	S.E.	.00
12	29.8	49.0	39.0	S.W.	.01	12	29.8	43.0	32.0	N.W.	.09	12	30.1	40.0	35.0	S.E.	.00
13	29.9	50.0	38.0	S.	.06	13	29.9	50.0	36.0	S.	.01	13	30.1	40.0	34.0	S.E.	.09
14	29.7	59.0	42.0	S.S.W.	.07	14	29.7	54.0	37.0	S.W.	.00	14	30.2	40.0	36.0	S.E.	.00
15	29.6	58.0	44.0	S.W.	.06	15	30.1	52.0	37.0	W.N.W.	.02	15	30.2	42.0	36.0	S.E.	.00
16	29.4	52.0	43.0	S.W.	.02	16	30.3	49.0	35.0	N.W.	.00	16	30.1	41.0	34.0	N.W.	.00
17	29.5	54.0	40.0	W.N.W.	.01	17	30.3	51.0	38.0	N.	.09	17	30.4	46.0	36.0	N.E.	.00
18	29.3	55.0	41.0	S.W.	.03	18	30.3	58.0	36.0	N.E.	.09	18	30.5	51.0	33.0	W.N.W.	.00
19	29.3	60.0	41.0	W.S.W.	.14	19	30.3	41.0	31.0	N.E.	.09	19	30.1	51.0	36.0	N.	.05
20	29.2	62.0	42.0	W.	.19	20	30.4	44.0	34.0	E.N.E.	.04	20	30.1	42.0	33.0	N.N.E.	.00
21	29.4	49.0	35.0	N.E.	.23	21	30.4	53.0	35.0	E.S.E.	.00	21	30.1	48.0	32.0	N.W.	.00
22	29.6	46.0	29.0	N.W.	.11	22	30.2	43.0	35.0	S.E.	.00	22	30.0	51.0	40.0	N.N.W.	.00
23	29.4	45.0	32.0	S.	.00	23	30.2	37.0	30.0	N.N.E.	.11	23	30.3	49.0	35.0	W.N.W.	.00
24	28.8	56.0	34.0	W.S.W.	.26	24	29.5	49.0	29.0	N.E.	.04	24	30.2	54.0	41.0	W.N.W.	.00
25	29.0	46.0	36.0	N.N.W.	.01	25	29.5	43.0	35.0	N.E.	.16	25	30.1	55.0	44.0	S.W.	.00
26	30.0	46.0	32.0	N.W.	.03	26	29.7	38.0	35.0	S.E.	.01	26	30.0	59.0	46.0	S.W.	.00
27	30.0	52.0	32.5	S.	.08	27	29.8	36.0	33.0	S.E.	.03	27	29.8	64.0	40.0	W.N.W.	.01
28	29.9	53.0	43.0	S.W.	.00	28	29.9	36.0	32.0	E.N.E.	.00	28	30.1	54.0	36.0	N.W.	.00
29	30.1	45.0	40.0	N.	.04							29	30.3	58.0	37.0	N.W.	.00
30	30.5	48.0	36.0	S.	.00							30	30.4	56.0	40.0	N.W.	.00
31	30.3	54.0	38.0	S.W.	.04							31	30.4	57.0	40.0	N.W.	.00
Mean Height of Barometer in Month 29.68						Mean Height of Barometer in Month 30.0						Mean Height of Barometer in Month 30.08					
Adopted Mean Temperature 42.90						Adopted Mean Temperature 39.05						Adopted Mean Temperature 43.41					
Rainfall 2.14						Rainfall 0.84						Rainfall 0.57					

TABLE OF METEOROLOGICAL OBSERVATIONS

From April to June, 1875.

APRIL.						MAY.						JUNE.					
Date.	Barometer.	Thermo- meter.		Direction of Wind.	Rainfall.	Date.	Barometer.	Thermo- meter.		Direction of Wind.	Rainfall.	Date.	Barometer.	Thermo- meter.		Direction of Wind.	Rainfall.
		Highest.	Lowest.					Highest.	Lowest.					Highest.	Lowest.		
1	30.5	58.0	44.0	NW	.00	1	30.0	50.0	41.0	SE	.00	1	30.2	65.0	41.0	SE	.00
2	30.2	61.0	43.0	NW	.00	2	29.9	61.0	42.0	ESE	.00	2	30.3	67.0	43.0	ENE	.00
3	29.7	58.0	45.0	SW	.00	3	29.0	65.0	41.0	SE	.00	3	30.1	69.0	43.5	NE	.00
4	29.4	63.0	42.0	WNW	.00	4	29.9	65.0	48.0	NW	.00	4	29.8	71.0	50.0	NNE	.00
5	29.0	64.0	38.0	SW	.15	5	30.0	67.0	46.0	ENE	.03	5	29.9	70.0	47.0	W	.00
6	29.2	56.0	35.0	SW	.04	6	29.7	61.0	46.0	S	.00	6	29.7	74.0	51.0	SW	.11
7	29.3	49.0	38.0	S	.01	7	29.4	57.0	46.0	SE	.10	7	29.9	70.0	53.0	SW	.08
8	29.7	47.0	40.0	N	.12	8	29.6	65.0	43.0	SE	.00	8	30.0	67.0	53.0	NW	.08
9	30.1	48.0	39.5	NE	.20	9	29.6	62.0	48.0	SW	.13	9	29.8	67.0	49.0	SE	.00
10	30.3	45.0	38.5	NE	.00	10	29.9	70.0	49.0	NW	.00	10	29.4	71.0	50.0	SW	.03
11	30.3	45.0	39.0	NE	.00	11	30.1	65.0	41.0	SW	.03	11	29.3	67.0	47.0	WNW	.04
12	30.2	53.0	40.0	NE	.00	12	30.1	68.0	50.0	WNW	.00	12	29.5	59.0	44.0	WSW	.01
13	30.3	57.0	37.0	NE	.00	13	30.1	81.0	52.0	WNW	.00	13	29.6	60.0	45.0	SW	.32
14	30.2	53.0	34.0	NNW	.00	14	30.2	82.0	50.5	NW	.00	14	29.4	62.0	43.0	SSW	.06
15	30.3	56.0	40.0	SE	.00	15	30.0	76.0	51.0	NW	.00	15	29.1	63.0	46.0	SSW	.07
16	30.2	58.0	40.5	SW	.00	16	30.4	68.0	44.0	NW	.00	16	29.3	68.0	45.0	SW	.31
17	30.2	57.0	40.0	SE	.00	17	30.0	72.0	43.0	SW	.00	17	29.7	64.0	48.0	NE	.01
18	30.1	64.0	43.0	SE	.00	18	29.4	60.0	45.0	SW	.14	18	30.0	72.0	48.0	SE	.00
19	30.1	73.0	40.0	SE	.00	19	29.4	63.0	42.0	NW	.08	19	30.0	74.0	46.0	SSW	.11
20	30.1	80.0	46.0	SW	.00	20	29.5	67.0	40.0	SSW	.00	20	29.9	72.0	53.0	NW	.04
21	29.9	53.0	44.0	NE	.00	21	29.7	61.0	42.5	SSW	.00	21	29.7	67.0	46.0	NE	.00
22	29.9	60.0	38.0	NE	.00	22	30.6	68.0	40.0	SW	.09	22	30.0	73.0	48.0	SW	.00
23	29.9	59.0	40.0	NE	.00	23	29.9	66.0	44.0	WSW	.03	23	30.0	68.0	53.0	WSW	.00
24	30.1	57.0	34.0	SW	.00	24	30.2	68.0	42.0	SW	.01	24	30.1	79.0	54.0	NW	.00
25	30.2	62.0	41.0	NW	.00	25	30.1	71.0	47.0	NW	.00	25	29.9	83.0	54.0	SW	.00
26	30.1	62.0	41.0	SE	.00	26	30.2	63.0	39.0	NNE	.00	26	29.8	71.0	56.0	NW	.00
27	29.9	64.0	41.0	W	.11	27	30.1	58.0	43.0	NNW	.00	27	29.8	65.0	46.0	SSW	.00
28	30.1	68.0	46.0	NW	.00	28	29.7	60.0	49.0	N	.03	28	29.8	65.0	50.0	SW	.12
29	30.0	74.0	46.0	NNW	.00	29	29.9	66.0	44.0	NNE	.23	29	29.9	67.0	52.0	SW	.02
30	30.1	66.0	48.0	E	.00	30	29.9	67.0	42.0	ENE	.02	30	29.8	60.0	50.0	NNE	.56
						31	30.0	67.0	45.0	SE	.00						
Mean Height of Barometer in Month 29.98						Mean Height of Barometer in Month 29.88						Mean Height of Barometer in Month 29.78					
Adopted Mean Temperature 49.70						Adopted Mean Temperature 55.25						Adopted Mean Temperature 58.40					
Rainfall 0.63						Rainfall 0.92						Rainfall 1.97					

TABLE OF METEOROLOGICAL OBSERVATIONS

From July to September, 1875.

JULY					AUGUST.					SEPTEMBER.						
Barometer.	Thermo- meter.		Direction of Wind.	Rainfall.	Date.	Barometer.	Thermo- meter.		Direction of Wind.	Rainfall.	Date.	Barometer.	Thermo- meter.		Direction of Wind.	Rainfall.
	Highest.	Lowest.					Highest.	Lowest.					Highest.	Lowest.		
29.7	72.0	50.0	SE	.33	1	30.2	69.0	48.0	NE	.00	1	30.2	70.0	45.0	N	.00
29.5	75.0	54.0	SW	.26	2	30.2	69.0	48.0	NE	.00	2	30.0	72.0	53.0	SW	.00
29.9	71.0	53.0	NE	.01	3	30.1	70.0	52.0	SE	.16	3	29.7	68.0	56.0	SW	.22
30.4	73.0	46.0	NE	.00	4	30.1	62.0	52.0	NNE	.02	4	29.9	69.0	51.0	WNW	.30
30.3	73.0	48.0	ENE	.00	5	30.0	63.0	48.0	NNE	.04	5	30.1	78.0	57.0	NNW	.08
30.3	78.0	54.0	ESE	.00	6	30.0	64.0	54.0	NNE	.15	6	30.2	72.0	56.0	SW	.00
730.2	73.0	55.0	SW	.00	7	30.1	66.0	53.0	NE	.00	7	30.0	76.0	58.0	S	.00
29.9	70.0	58.0	S	.00	8	30.1	61.0	53.0	ESE	1.10	8	29.8	71.0	56.0	S	.00
29.5	60.0	52.0	SW	.04	9	29.8	65.0	55.0	NE	.10	9	29.7	79.0	54.0	WSW	.24
29.3	64.0	50.0	NW	.46	10	29.7	74.0	55.0	SW	.24	10	29.9	70.0	49.0	S	.00
29.4	62.0	49.0	N	1.11	11	29.7	79.0	55.0	SW	.70	11	30.1	75.0	50.0	NW	.00
29.8	67.0	47.0	N	.41	12	29.8	63.0	54.0	NE	.00	12	30.4	82.0	46.0	SSE	.00
30.1	69.0	45.0	NW	.01	13	29.8	68.0	55.0	NE	.00	13	30.3	82.0	46.0	SSE	.00
30.0	64.0	49.0	SSE	.03	14	29.9	76.0	56.0	SW	.00	14	30.3	68.0	54.0	NE	.02
29.9	69.0	51.0	ENE	.00	15	30.0	82.0	58.0	WSW	.00	15	30.3	69.0	54.0	NE	.00
630.0	73.0	56.0	ENE	.00	16	29.9	78.0	60.0	SW	.00	16	30.2	78.0	56.0	ESE	.00
730.0	66.0	52.0	NE	.00	17	29.8	76.0	60.0	SW	.00	17	30.1	77.0	54.0	SE	.00
29.9	67.0	54.0	NE	.34	18	29.8	73.0	58.0	WSW	.00	18	30.1	63.0	54.0	NE	.00
29.9	61.0	55.0	NE	.94	19	30.1	75.0	52.0	NW	.00	19	30.1	67.0	55.0	NE	.00
29.9	68.0	55.0	NE	.64	20	30.1	72.0	50.0	NW	.00	20	29.8	60.0	57.0	NE	.48
130.0	69.0	54.0	NE	.03	21	30.1	72.0	54.0	SW	.00	21	29.8	56.0	51.0	E	.19
29.7	73.0	55.0	NE	.00	22	30.1	75.0	57.0	SW	.03	22	29.8	57.0	51.0	NE	.08
29.5	67.0	53.5	NE	.00	23	29.9	72.0	58.0	SW	.00	23	30.1	62.0	48.0	NE	.00
29.5	69.0	53.0	SW	.21	24	29.7	67.0	54.0	SW	.38	24	30.1	65.0	51.0	SE	.00
29.8	67.0	46.0	NW	.00	25	29.6	78.0	55.0	SW	.03	25	29.7	64.0	51.0	SW	.48
630.1	68.0	45.0	NW	.01	26	29.7	74.0	55.0	SW	.00	26	29.6	63.0	50.0	SSW	.05
730.3	71.0	47.0	SSW	.00	27	30.0	78.0	51.0	WSW	.00	27	29.3	66.0	46.0	WSW	.06
830.3	71.0	52.5	S	.00	28	30.0	67.0	53.0	SW	.00	28	29.4	73.0	47.0	NW	.00
930.3	81.0	52.0	SW	.00	29	29.9	72.0	53.0	NW	.00	29	29.6	62.0	44.0	WNW	.00
030.0	70.0	54.0	N	.09	30	29.9	76.0	53.0	SW	.01	30	29.9	63.0	44.0	NW	.02
130.1	69.0	50.0	N	.00	31	29.8	70.0	48.0	NW	.14						
Mean Height of Barometer in Month 29.91					Mean Height of Barometer in Month 29.93					Mean Height of Barometer in Month 29.95						
Adopted Mean Temperature 60.30					Adopted Mean Temperature 62.55					Adopted Mean Temperature 60.34						
Rainfall 4.92					Rainfall 3.10					Rainfall 2.22						

TABLE OF METEOROLOGICAL OBSERVATIONS

From October to December, 1875.

OCTOBER.						NOVEMBER.						DECEMBER.					
Date.	Barometer.	Thermo- meter.		Direction of Wind.	Rainfall.	Date.	Barometer.	Thermo- meter.		Direction of Wind.	Rainfall.	Date.	Barometer.	Thermo- meter.		Direction of Wind.	
		Highest.	Lowest.					Highest.	Lowest.					Highest.	Lowest.		
1	29.7	65.0	49.0	WSW	.00	1	29.9	45.0	41.0	SE	.14	1	30.0	38.0	33.0	ENE	
2	29.6	66.0	49.0	NW	.00	2	29.8	51.0	38.0	SSE	.00	2	29.9	39.0	32.0	ESE	
3	29.6	68.0	45.0	SW	.00	3	29.7	61.0	41.0	SSW	.16	3	29.8	42.0	33.0	NNW	
4	29.5	75.0	48.0	NW	.01	4	29.6	58.0	47.0	SW	.01	4	29.9	43.0	31.5	NE	
5	29.6	75.0	56.0	W	.00	5	29.5	57.0	44.0	SW	.00	5	30.1	40.0	30.0	ESE	
6	30.0	65.0	48.0	SW	.04	6	29.0	55.0	48.0	SW	.21	6	30.3	36.0	29.0	ESE	
7	30.1	64.0	49.0	NW	.02	7	29.4	56.0	38.0	WNW	.32	7	30.4	36.0	31.0	NNW	
8	30.0	67.0	50.0	SW	.00	8	29.2	54.0	33.0	NW	.10	8	30.3	37.0	30.0	NW	
9	29.6	55.0	44.0	NW	.01	9	29.4	53.0	30.0	SW	.00	9	30.3	39.0	30.0	NW	
10	29.7	69.0	40.0	WNW	.04	10	28.9	47.0	34.0	NE	.34	10	30.2	42.0	35.0	NW	
11	29.0	68.0	44.0	NW	.11	11	29.1	53.0	36.0	NW	.46	11	30.0	45.0	38.0	NW	
12	29.3	59.0	33.0	SE	.00	12	29.7	56.0	34.0	NW	.00	12	30.4	45.0	39.0	NW	
13	29.3	59.0	31.0	W	.00	13	29.7	48.0	33.0	ESE	.02	13	30.0	45.0	39.0	WSW	
14	29.3	52.0	38.0	ENE	.17	14	28.9	53.0	40.0	NE	1.70	14	30.0	44.0	38.0	SW	
15	29.6	54.0	45.0	ENE	.27	15	30.0	56.0	33.0	WNW	.45	15	30.0	37.0	30.0	SW	
16	29.6	55.0	45.0	NE	.20	16	29.9	50.0	36.0	SW	.00	16	30.0	40.0	29.0	SW	
17	29.8	59.0	45.0	S	.09	17	29.8	55.0	37.0	SW	.02	17	29.9	42.0	32.0	SW	
18	29.9	58.0	49.0	SE	.00	18	29.8	58.0	43.0	SSE	.43	18	29.6	47.0	32.5	SW	
19	29.9	52.0	46.0	SE	.00	19	29.3	54.0	46.0	NNW	.17	19	29.4	48.0	41.0	SSE	
20	29.7	51.0	42.0	SE	.40	20	30.0	44.0	32.0	NNW	.23	20	29.3	50.0	36.0	SW	
21	29.5	54.0	45.0	SSE	.72	21	30.1	48.0	33.0	ENE	.34	21	29.6	52.0	38.0	WSW	
22	29.5	58.0	46.0	SE	.10	22	30.2	43.0	37.0	NE	.08	22	29.2	51.0	40.0	SW	
23	29.5	59.0	48.0	ESE	.40	23	30.2	44.0	38.0	NE	.01	23	29.6	50.0	37.0	SW	
24	30.0	65.0	46.0	ESE	.14	24	30.3	42.0	36.0	ENE	.07	24	29.6	53.0	42.0	SW	
25	30.1	65.0	42.0	SW	.00	25	30.1	43.0	34.0	NE	.10	25	30.0	51.0	40.0	NW	
26	30.0	52.0	38.0	SW	.00	26	30.0	43.0	34.0	NE	.04	26	30.3	54.0	41.0	NW	
27	29.8	51.0	44.0	ESE	.00	27	30.1	44.0	34.0	NE	.17	27	30.3	47.0	41.0	SW	
28	30.0	53.0	42.0	SE	.10	28	30.3	40.0	36.0	ENE	.10	28	30.3	44.0	38.0	SW	
29	30.1	58.0	43.0	SE	.18	29	30.1	39.0	35.0	ENE	.02	29	30.2	50.0	40.0	WNW	
30	30.0	48.0	42.0	SSE	.03	30	30.0	38.0	32.0	ESE	.19	30	30.0	49.0	42.0	SW	
31	29.9	45.0	40.0	SE	.16							31	29.8	50.0	40.0	SW	
Mean Height of Barometer in Month 29.71						Mean Height of Barometer in Month 29.73						Mean Height of Barometer in Month 29.98					
Adopted Mean Temperature 51.94						Adopted Mean Temperature 43.35						Adopted Mean Temperature 40.22					
Rainfall 3.19						Rainfall 5.88						Rainfall 1.69					

XXIII.

CASES in which Premises were visited by the Medical Officer of Health and Sanitary Inspectors, on account of Infectious Diseases prevailing therein.

Diseases.	No. of Cases.	Bedding and Articles of Clothing Burned to Prevent Contagion, and Houses Disinfected.	No.
Typhus Fever.....	36	Feather Beds	1
Typhoid „	28	Flock and Chaff ditto	9
Other „	50	Mattresses	9
Scarlatina	142	Pillows	12
Measles.....	16	Sheets, &c.	
Diphtheria	11	Houses Disinfected by	
Whooping Cough	264	the Inspector	22
Croup	3	Ship Disinfected.....	1
Diarrhœa	138		
Total	688	Total	54

LIST OF CASES in which it was found necessary to adopt Magisterial Proceedings.

Particulars of Complaint.	No. of Cases.	How Disposed of.	Penalties Imposed.
Depositing Offensive Matter on the Street and Obstructing	5	One fined 20s., three 2s. 6d., one 1s., and one to pay costs ..	1 8 6
Ash-pits, Privies, Water Closets, and Premises in such a state as to be a Nuisance and Injurious to Health	151	100 Orders to abate made, 50 cases withdrawn, and one dismissed	Costs allowed.
Exposing Unsound Food for Sale	3	One fined £10, one 20s., and one 10s.	11 10 0
Adulteration of Food	5	One fined 10s., 4 dismissed with a caution	0 10 0
Smoke Nuisance.....	7	2 Orders to abate made—5 dismissed	
	171		13 8 6

XXIV.

Number of Persons summoned under the Sanitary Acts :—

Sanitary Acts.	Number of Persons.	Convicted	Dis-charged.	Nuisances abated and Summonses withdrawn on payment of Costs.
Public Health and Nuisance Removal Act ..	256	158	6	92
Common Lodging House Act	—	—	—	—
Selling and Exposing for Sale Unsound Food Adulteration of Food Act	3	3	—	—
Bye-Laws	5	1	4	—
	5	5	—	—
Total.....	269	167	10	92

TABLE shewing the amount of Bad Meat and other unwholesome Articles of Food seized and destroyed during 1875.

Class of Food Seized.	No. of Seizures.	Weight in Pounds Seized and Destroyed.	No. of Persons Summoned.	No. of Convictions	Amount of Penalties Imposed
Beef and Mutton	2	616	..	..	..
Pork	2	245	..	..	..
Salt Beef	1	3648	..	..	..
Hams and Bacon	4	511	1	1	£10.
Fruit	15	—	..	..	..
Cherries .....	.....	3 Baskets.	..	..	..
Apples, Pears, and Plums .....	.....	217	2	2	£1 10s.
Total	24		3	3	11 10s.

XXV.

*NUISANCES REPORTED, and NOTICES served
by Sanitary Inspectors, during the Year.*

Number of Nuisances Reported	2,766
Nuisance abated without formal Notice	220
Nuisances abated after Notice without proceedings	2,388
Nuisances abated after proceedings had been taken	151
Number of formal Notices given	8,105
Complaint made at Office, and attended to by Inspectors	644

Notices served :—

To Repair Defective House Drains, Water Closets, &c.	655
To Whitewash Premises, Cleanse Ash-pits, &c.	8,240
Defective Spouts	40
Houses Unfit for Human Habitation	10
Dangerous Buildings	11
To Abate Smoke Nuisances	18
To Cleanse and Disinfect Houses wherein Zymotic Diseases had occurred.....	431
Total	9,405

Ash-pits Cleansed by Corporation :—

Orders taken by Inspectors during inspection, and Private Orders received at the Office	1,998	Number of Loads removed	3,725
Orders received for Cleans- ing by Yearly Contract :			
January to February 14th..	14	Do. do.	358
February 14th to May 13th..	6	Do. do.	738
May 13th to August 13th ..	—	Do. do.	680
August 13th to Nov. 23rd ..	258	Do. do.	866
23rd Nov. to Dec. 31st	23	Do, do.	420
Total.....	2,299	Total	6,787

THE HISTORY OF THE

REIGN OF

CHARLES

THE FIRST

OF

ENGLAND

INDEX.

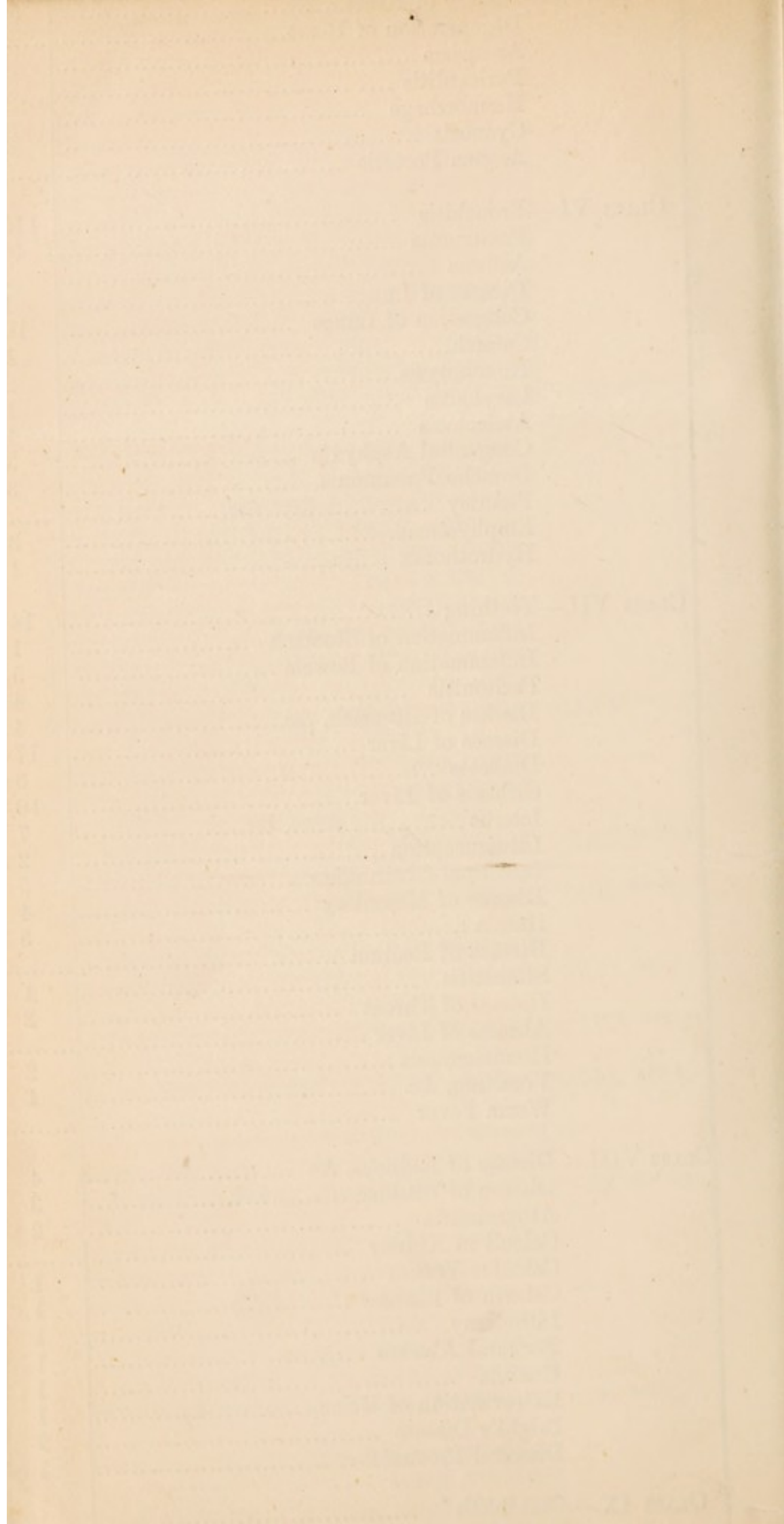
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DURING THE 52 WEEKS ENDING JANUARY 1st, 1876.





THE BOROUGH OF SUNDERLAND 1876

POPULATION OF BOROUGH
in 1871

Male	11,800
Female	12,200
North End	10,700
South End	11,300
Wearmouth	17,100
Total	52,100

Total average 5,000



CASES DEATHS

TYPHOID FEVER	1	1
TYPHOID FEVER	1	1
SCARLATINA	1	1
DIARRHOEA	1	1

BOUNDARY OF PARISHES

Municipal Boundary	Red line
East Sunderland	Green line
West	Blue line
North Bishopwearmouth	Yellow line
South	Orange line
Wearmouth	Brown line

