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BOROUGH OF



SUNDERLAND.

# REPORT

ON THE

HEALTH AND SANITARY CONDITION  
OF THE BOROUGH,  
FOR THE YEAR 1878.

BY

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SUNDERLAND :

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1879.

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MEMORANDUM FOR THE RECORD

REPORT

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# REPORT, 1878.

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**I**N compliance with the general orders of the Local Government Board, I beg to submit, for the information of the Board and for the consideration of the Urban Sanitary Authority, my FIFTH Annual Report on the Health and Sanitary condition of the Borough.

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During the fifty-two weeks ending 28th December, 1878, 4,641 Births and 2,864 Deaths were registered in the Borough. The Births represent an annual rate of 41·3 per 1,000, and the Deaths an Annual Rate of 25·5 per 1,000. The Birth-rate was slightly in excess of that of the preceding year, whilst the Death-rate showed an increase of 3 per 1,000—an increase entirely due to the excessive Infant Mortality, to which special reference will be made hereafter.

BIRTHS AND  
DEATHS.

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Of the 4,641 Births registered, 2,383 were Males and 2,258 were Females, representing a rate of 41·3 per 1,000 of the population, as against a rate of 40·8 in the year 1877.

BIRTHS.

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In the four Registration Districts which comprise the Borough, the Birth-rate was highest in North and South Bishopwearmouth and Monkwearmouth Districts, being 45·6, 43·0, and 41·4 per 1,000 respectively, and lowest in Sunderland District, where the rate was only 31·7 per 1,000.

The greatest number of Births was registered in the second quarter of the year, viz., 1,205, and the least number in the fourth quarter, viz., 1,116.

The total number of Deaths registered during the year was 2,864, of which number 1,412 were Males and 1,452 were Females, representing a Death-rate of 25·5 per 1,000, as compared with rates of 22·7, 23·6, 22·4, 20·8, and 22·5 in the years 1873, '74, '75, '76, and '77, respectively.

DEATHS.

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**REPORT.** Of the 2,864 Deaths, 1,537 were those of children under 5 years of age, of which number 851 were under a year old. 865 Deaths were registered between the ages of 5 and 60 years; 211 between 60 and 70; 183 between 70 and 80; 60 between 80 and 90; and 8 between 90 and 100 years' old.

The mortality of persons aged 60 years and upwards, showed a decrease as compared with the previous year, the number being 462 as against 529. The mortality between the ages of 5 and 60 years also showed a decrease—the numbers being 865 as against 878.

The number of Deaths registered in each week during the year ranged from 31 in the week ending 9th March, to 76 in the week ending August 3rd.

The average age at death of children under 5 years of age was 13 months.

The average age at death of persons aged 5 years and upwards was  $45\frac{1}{2}$  years.

**Mortality in  
Registration  
Districts.**

In Sunderland District, where the population is very dense, and composed principally of the lowest class of society, the Death-rate was 29·3 per 1,000 of the population as against 25·7 in 1873, 26·6 in 1874, 24·6 in 1875, 21·8 in 1876, and 22·8 in 1877, an increase due to the excessive mortality from Scarlatina, Whooping Cough, and Measles.

In North Bishopwearmouth District, the number of Deaths registered, exclusive of those which occurred in the Corporation Fever Hospital, Children's Hospital, and Workhouse Hospitals, was 728, representing a Death-rate of 23·5 per 1,000 of the estimated population.

During the year, 148 Deaths were registered as having taken place in the Workhouse, 6 in the Corporation Fever Hospital, and 1 in the Children's Hospital, which increased the Death-rate of the District from 23·5 to 28·6 per 1,000.

In Bishopwearmouth South District, the Deaths, exclusive of those which took place in the Infirmary, numbered 752, representing a Death-rate of 22·0 per 1,000 of the estimated population.

The Deaths registered as having occurred in the Infirmary during the year numbered 46, and increased the Death-rate of the District from 22·0 to 23·4 per 1,000.

In Monkwearmouth, 625 Deaths were registered during the year, representing a Death-rate of 22·0 per 1,000 of the estimated population, being the lowest rate of the four Districts.

### ZYMOTIC DISEASES.

#### ZYMOTIC DISEASES.

During the year the following Deaths were registered as arising from the principal Zymotic Diseases, viz., Small-pox, 1 ; Typhus Fever, 23 ; Typhoid or Enteric Fever, 30 ; Scarlet Fever, 186 ; Whooping Cough, 175 ; Measles, 93 ; Diarrhœa, 204 ; and Diphtheria, 14—making a total of 726, representing a Death-rate of 6·4 per 1,000 of the population, and forming more than one-fourth of the total mortality.

In Sunderland District, which is densely populated, and the majority of the property tenemented property, the Death-rate from this class of disease was 10·0 per 1,000 of the population : the mortality principally arising from Scarlet Fever, Measles, and Whooping Cough.

In North Bishopwearmouth and Monkwearmouth Districts, both of which also contain a considerable amount of tenemented property, the Death-rates from Zymotic Diseases were 6·3 and 6·1 per 1,000 respectively.

In South Bishopwearmouth, which includes the healthiest and most aristocratic portion of the Borough, the Death-rate was 5·0 per 1,000. In each district there was an increased mortality from Zymotic Diseases, due to the prevalence and fatality of the diseases already mentioned.

DEATHS FROM ZYMOTIC DISEASES.

	Sunderland— Population, 18,945				South Bp. wearmouth. Population, 34,190				North Bp. wearmouth. Population, 30,864				Monkwearmouth. Population, 28,460				Whole Borough, 112,459.	
	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.
Small Pox .....	1	1	1	2	1	1	2	2	3	2	2	5	1	2	2	2	1	20
Typhus .....	2	1	1	4	1	1	4	1	2	1	3	5	1	2	1	3	30	26
Typhoid .....	8	6	9	38	4	8	2	32	15	12	5	24	6	4	13	186	170	
Scarlatina .....	13	6	9	2	1	11	7	2	11	8	1	1	3	29	5	93	83	
Measles .....	13	30	21	2	9	17	9	2	14	11	3	2	3	23	13	175	156	
Whooping Cough .....	2	8	23	7	1	2	1	6	2	3	1	1	1	3	1	14	12	
Diphtheria .....	2	8	23	7	1	2	43	6	1	3	43	9	5	47	4	204	182	
Diarrhœa .....	26	52	63	49	17	42	68	45	37	43	65	46	20	63	66	24	726	
Totals .....	190	172	191	173	6.3	5.0	6.1	6.4										
Rate per 1,000 .....	10.0	5.0	6.3	6.1	6.4													

One Death was registered as arising from Small-pox, being REPORT.  
 that of an unvaccinated infant 4 months' old. The circumstances Small-pox.  
 under which the case occurred were peculiar. A lady having  
 died suddenly, her son, a sailor, who happened to be in London,  
 was telegraphed for; he was not very well when he arrived  
 home; and a day or two after his arrival an eruption appeared on  
 his body, which was taken for Chicken Pox, but which there was  
 no doubt was a mild attack of modified Small-pox. The young  
 man's sister, with her children, also arrived home about the same  
 time as he did. During the period of his recovery, he frequently  
 nursed his sister's infant, who took the disease in a confluent  
 form, and died. Every means was taken by disinfection and  
 otherwise, to prevent the further spread of the disease, and  
 happily no other case occurred.

Twenty-three deaths were registered from Typhus, and 30 from Typhus and  
Typhoid Fever.  
 Typhoid Fever, during the year, making a total of 53 as against  
 61 in the year 1877. Careful enquiry was made into the pre-  
 disposing and exciting causes in every instance. The majority  
 of the cases of Typhus arose either from destitution or infection.  
 The existing causes of the Typhoid Fever cases were much more  
 difficult to discover, and in many cases there was nothing what-  
 ever, as far as the sanitary condition of the premises in which  
 the patients resided, or their surroundings, to which an outbreak  
 of the disease could be attributed.

Scarlet Fever, which was epidemic in the Borough throughout Scarlet Fever.  
 the year, caused 186 deaths, of which 61 occurred in Sunderland  
 sub-District, 56 in North Bishopwearmouth, 46 in South Bishop-  
 wearmouth, and 23 in Monkwearmouth.

Measles, which only caused one death in the year 1877, made Measles.  
 its appearance at the commencement of the second quarter of the  
 year, and continued fatally prevalent for 6 months, causing no  
 less than 93 deaths,—the disease being most fatal in Monkwear-  
 mouth, where the disease first broke out.

**REPORT.**  
**Whooping Cough.** Whooping Cough caused the deaths of 175 persons, of whom 170 were under 5 years of age. The disease was fatally epidemic during the first three quarters of the year.

**Diphtheria.** The Deaths from Diphtheria numbered 14, 6 of which took place in North Bishopwearmouth District, 5 in Monkwearmouth, and 3 in Bishopwearmouth South. No Deaths from this disease were registered in Sunderland Parish.

**Diarrhœa.** The Deaths from Diarrhœa showed a considerable increase as compared with the previous year, and numbered 204, three-fourths of which occurred in the third quarter of the year.

As showing the influence of Meteorological conditions of the Atmosphere as affecting the mortality from this form of disease, I would observe that during the 3 Autumn months of 1876, in which the mean temperature of the air was a little over 60 degrees Fahrenheit, the deaths numbered 109. During the same period in 1877, with a mean temperature of 58·4 degrees, the deaths fell to 53; whilst during the Autumn months of 1878, when the mean temperature rose to 62 degrees, the deaths numbered no less than 153;—showing pretty conclusively the influence of temperature in producing Diarrhœa.

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## LOCAL DISEASES.

**Diseases of the Lunge.** Of the 2,864 Deaths, 373 were ascribed to Bronchitis, Pneumonia, and Pleurisy, of which 223 were those of children under 5 years of age; 100 were those of persons between the ages of 5 and 60 years; and 50 those of persons aged 60 and upwards.

In the several weeks the Deaths ranged from 0·2 and 2 in the weeks ending August 17th, 24th, and 31st, to 17 in the weeks ending March the 2nd and April 6th.

The following Table shows the number of Deaths each quarter, the Districts in which the diseases were most fatal, the general Direction of the Wind, Mean Temperature of the Air, and the Rainfall during the same period. REPORT.

Quarters.	Deaths.	General Direction of Wind.	Mean Temperature.	Rainfall. in inches.	Districts in which Diseases most fatal.
1 ..	113 ..	N. & S.W. ..	43·37 F. ..	4·06 ins.	} North and South Bishopwearmouth and Mkwearmouth
2 ..	113 ..	N. & S.E. ..	53·02 ,, ..	7·37 ,, ..	All Districts.
3 ..	61 ..	N. & S.W. ..	62·00 ,, ..	6·43 ,, ..	} East Sunderland, and North Bp.wmth. and Mkwearmth.
4 ..	86 ..	N.W. ..	42·05 ,, ..	12·20 ,, ..	} North and South Bp.wearmouth.

It will be observed from the foregoing that in the two last quarters of the year, in which the mean temperature of the air was highest and lowest respectively, with North and South Westerly Winds and heavy Rainfall, the mortality from Diseases of the Lungs was lowest. Apart from the general direction of the wind, which is an important factor in the production of Lung Disease, still in some degree, no doubt, this low mortality was due to the fact that Sunderland, or at least the greater portion of the town, stands some hundred feet above the level of the sea, and has a system of drainage which is very perfect, so that the heavy rainfall not only well purified the air, but also was carried rapidly away, so that in addition to the favourable direction of the wind and purity of the atmosphere, there was no great saturation of the soil, which at the later seasons of the year is so productive of fogs (which rapidly produce Bronchial affections), from which our town is exceptionally free.

Consumption was returned as the cause of 211 Deaths, of Phthisis, which 103 were Males and 108 Females. 16 of the Deaths were those of Children under 5 years of age; 20 died between the ages of 5 and 15; 74 between 15 and 30; 47 between 30 and 40; 37 between 40 and 50; 11 between 50 and 60; 5 between 60 and 70; and 1 between 80 and 90.

**REPORT.**

In proportion to population, the mortality was highest in North and South Bishopwearmouth, and lowest in Sunderland and Monkwearmouth. The Deaths in the several quarters of the year were 37, 60, 57, and 57.

**Heart Disease.**

During the year, 126 persons died from Heart Disease, of which number 62 were Males and 64 were Females. The deaths from this disease showed a decline as compared with the previous year, when they numbered no less than 178, viz., 87 Males and 91 Females.

**Diseases of the Nervous System**

From Diseases of the Brain and Nervous system, 386 persons died, of which number nearly one-half were Children under 5 years of age. The principal causes of death in this class of disease were Convulsions, which caused 148 Deaths; Paralysis, 96; Inflammation of the Brain, 65; and Apoplexy, 47. The majority of Deaths from Paralysis took place in the Workhouse in North Bishopwearmouth District; and of the 148 Deaths from Convulsions, 61 took place in Bishopwearmouth South District.

**Diseases of the Digestive Organs**

The Liver was the principal organ of the Digestive System which was attacked by fatal disease, 32 Deaths being ascribed to Disease of Liver, and 18 to Cirrhosis of Liver—a disease brought on by Intemperance. The Deaths arising from the last-named disease during the past 5 years have been as follows:—1874, 2 Deaths; 1875, 18; 1876, 13; 1877, 12; and 1878, 18.

**INFANT MORTALITY.****INFANT MORTALITY.**

As has already been stated, the high rate of mortality in the Borough during the past year was entirely due to the excessive number of deaths of Children under 5 years of age. Of the 2,864 Deaths in the Borough, 1,537 were those of Children under 5 years old—showing a mortality at the rate of 13·7 per 1,000 of the population, and forming 54 per cent. of the total mortality.

The Infant Mortality was lowest in Bishopwearmouth South and Monkwearmouth Districts, viz., 11·7 and 12·8 per 1,000, and highest in Sunderland and North Bishopwearmouth Districts, where the rates were 17·5 and 14·2 per 1,000 respectively; so that it will be seen that the mortality was greatest in those

Districts where there was the most tenemented property, and in which the population was not only the poorest, but also the most dense. Bishopwearmouth South comprises within its area the "Belgravia" of the town, and also a fair proportion of tenemented property, but of a very different character to that in Sunderland Parish, and it enjoyed the lowest rate of Infant Mortality.

On reference to the adjoining table, it will be observed that the increased Infant Mortality was entirely due to Scarlet Fever, Measles, Whooping Cough, and Diarrhoea, which from time to time were fatally prevalent in the Borough; and I would here remark that during the 5 years ending December 31st, 1877, the Infant Mortality of the Borough had declined year by year, until in 1877 it was the lowest on record, so that at the commencement of 1878 more children under 5 years of age would be living than in any previous year; hence, when such diseases as those mentioned above made their appearance, the fatal effects produced would be proportionately increased; and such proved to be the case, as notwithstanding all the means used to prevent the spread of disease, the Infant Mortality increased from 9·6 per 1,000 in 1877, to 13·7 per 1,000 in 1878.

Scarlet Fever proved fatal in 186 cases during the year, of which 129 were those of children under 5 years of age. It may be observed, at the outset, with reference to this disease, that our large towns are scarcely, if ever, entirely free from it; the records of our own town, as far back as I can trace them, show that from year to year Scarlet Fever has been more or less prevalent, differing in its fatality as the disease has assumed a mild or malignant type. In 1873 there were 29 Deaths; in 1874 the number rose to 140; in 1875 it fell to 61; in 1876 the number increased to 133; in 1877 to 138; and last year to 186.

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[For Table as to Infant Mortality, see next page.]



## INFANT MORTALITY.

CAUSE OF DEATH.	Sunderland. Population, 18,945.		North Bishopwearmth. Population, 30,864.		South Bishopwearmth. Population, 34,190.		Monkwearmouth. Population, 28,460.		Whole Borough. Population, 112,459.
	Under 1	1 to 5	Under 1.	1 to 5	Under 1	1 to 5	Under 1	1 to 5	TOTAL.
Small-Pox .....	..	..	..	..	1	..	..	..	1
Typhus .....	..	..	..	1	.	..	..	..	1
Typhoid Fever .....	..	1	..	..	..	1	..	2	4
Remittent Fever .....	..	..	..	1	..	1	..	1	3
Scarlatina .....	7	34	6	35	3	29	1	14	129
Measles .....	1	14	5	12	6	10	10	23	81
Whooping Cough .....	17	47	14	15	19	17	13	28	170
Diphtheria .....	..	..	1	1	..	2	..	3	7
Diarrhœa .....	16	14	33	16	38	9	38	11	175
Bronchitis, Pneumonia, and other Diseases of Respiratory Organs.. }	32	25	31	30	36	28	16	25	223
Croup .....	..	2	1	6	..	2	1	2	14
Phthisis .....	..	2	2	3	2	3	1	3	16
Convulsions .....	11	5	29	6	38	21	24	7	141
Marasmus Atrophy .....	23	15	30	20	19	6	22	11	146
Heart Disease .....	..	..	..	1	..	..	..	..	1
Debility .....	13	..	22	..	25	1	19	1	81
Violence .....	5	1	4	4	2	3	1	3	23
Meningitis .....	1	3	3	4	13	10	2	5	41
Liver Disease .....	..	..	..	1	..	..	..	..	1
Premature Birth .....	9	..	39	..	13	..	21	..	82
Other causes (see Table at end of Report) .....	18	16	38	26	30	12	26	31	197
Total .....	153	179	258	182	245	155	195	170	1537
	332		440		400		365		

Measles in 1873 was more fatal than Scarlet Fever—the Deaths REPORT.  
 numbering 31 ; in 1874 they increased to 59 ; in 1875 they Measles.  
 were 54 ; in 1876 they declined to 42 ; whilst in 1877 there  
 was only one death ; whereas in 1878 they numbered 93. The  
 Death registered in 1877 occurred in Bishopwearmouth South  
 District in December ; and the first Death registered in 1878  
 was in the week ending 16th of March, and took place in  
 Williamson Street, Monkwearmouth ; and although this was the  
 first intimation received by me of the disease being in the  
 Borough, on visiting the house and making enquiries, I found a  
 number of cases in the immediate neighbourhood ; and within a  
 few days numerous cases were reported scattered about in various  
 parts of the town, in which there was no evidence whatever  
 that the person suffering from the disease had been exposed to  
 Infection or Contagion. The disease was epidemic during the  
 second and third quarters of the year, and during that period  
 86 out of the 93 deaths were registered. During the December  
 quarter only 3 deaths occurred ; and at the present time the town  
 is free from the disease.

Whooping Cough caused 175 Deaths, as against 63 in the Whooping  
Cough.  
 preceding year. The disease was fatally prevalent throughout the  
 first nine months of the year, from which time it began to decline,  
 and in the fourth quarter 9 Deaths only were registered.

The Deaths from Diarrhœa, which in the year 1877 were only Diarrhœa.  
 82, increased to 204 in 1878—175 of which were those of  
 children under 5 years of age, of which 125 were infants under  
 a year old. The disease was most prevalent and fatal in the  
 Autumn quarter, during which period 156 of the deaths occurred.

I think it has been conclusively shown from time to time that  
 the prevalence of Diarrhœa depends, in a great measure, upon the  
 Meteorological condition of the atmosphere, combined with  
 negligent and careless feeding. In the Autumn of 1876, when  
 the mean temperature of the air was a little over 60 degrees  
 Fahrenheit, 109 Deaths were registered ; in 1877, when the  
 mean temperature was 58·4 degrees, the deaths numbered 82 ;  
 whilst in 1878, when the mean temperature rose to nearly 62·0

**REPORT.**

degrees, the mortality increased to 204. As showing the effect of improper and unwholesome feeding, it may be stated that of the 125 infants who died from this disease under a year old, no less than 97 were artificially fed by the bottle—a system of feeding fraught with most pernicious, injurious, and fatal effects, and one to which I have referred year by year in my Annual Reports.

Apart from the Diseases of the Zymotic class, Diseases of the Respiratory Organs were most fatal, causing 223 Deaths; whilst Convulsions and Marasmus carried off 141 and 146 respectively. Debility caused 81 Deaths, all but two of which were Infants under a year old; whilst 82 Deaths were attributed to premature Birth.

The Deaths of 22 children were registered as arising from violence, principally scalds, burns, and overlaying—deaths more or less preventable.

The effects of disease and negligence, as portrayed in the Infant Mortality Table, are worthy of a careful and thoughtful consideration, as indicating either the results of carelessness or ignorance on the one hand, or a deterioration in the strength and vigour of constitution for which Englishmen and Englishwomen have been so famous in years gone by, on the other. The various causes of Infant Mortality, apart from the disease which actually kills, have been so frequently referred to, that it is not necessary that I should again repeat them. Much, however, remains to be done by way of influencing public opinion in regard to this important subject.

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**Action taken during the Year for preventing the  
spread of Disease.**

REPORT.

During the year the following cases were removed by the Sanitary Inspectors, and admitted into the Corporation Fever Hospital, Dunning Street, viz. :—Fever, 15 ; Scarlet Fever, 31 ; and Measles, 3 ; making a total of 49 cases in all, as against 14 admitted in the previous year. Six Deaths occurred in the Hospital—2 from Fever and 4 from Scarlet Fever.

In all cases of Infectious Diseases reported, the premises were visited by the Sanitary Inspectors or myself; and during the year, 1,657 cases were reported, viz. :—Small-pox, 2 ; Typhus Fever, 59; Typhoid Fever, 70; Continued Fever, 34; Scarlet Fever, 591; Measles, 320 ; Whooping Cough, 337 ; Diarrhoea, 207; Diphtheria, 20 ; and Croup, 17. Careful examinations and inspections of the dwellings in which the cases occurred, were made, and enquiries made respecting the outbreak of the disease. When it was found desirable, the cases were removed to the Corporation Union Fever Hospital, and so isolated ; but isolation, whilst perfectly sound in theory, as the best means of preventing the spread of disease, is practically most difficult to carry out. Take, for example, such diseases as Scarlet Fever and Measles: in the first instance, there is the difficulty of ascertaining when the disease first makes its appearance, a notice of the death being in very many instances the first intimation of such a disease being in a given locality. On visiting the spot it is found that others are either ill from, or in the convalescent stage of the disease, Provided they are well lodged and cared for, the parents are unwilling that they should be removed ; and many of them are so young, that parents would not listen to such a proposal. In cases of Typhus and Enteric Fever, the circumstances are somewhat different, there being less disinclination for the removal of such cases, and the timely removal of the first case will often cut short an outbreak of Typhus. As an illustration of the necessity of early information being given, I would observe that in the early part of the year, a labouring man, residing at Look-out Hill, Monkwearmouth, who had been out of work, and in a

## REPORT.

destitute condition, took ill of Typhus. As soon as he took ill, he became entitled to 10s. per week from his club, and the Doctor's attendance. The case was not reported to me. The man, however, recovered, but mark the result. During his recovery, his wife took the disease, and died; his children took ill, and were removed to the Hospital; a neighbour meeting him in the house took ill, and died; a young girl visited the house, she also took ill, and ultimately died. Altogether, the outbreak resulted in 13 persons being attacked by the disease—3 of whom died. Had the first case been removed, the probability is that the disease would have spread no further. The difficulties in preventing the spread of Infectious Diseases, especially amongst the working classes, are very great, principally arising from the inter-communication between one and another. The spread of Scarlet Fever was, in a number of instances, traceable to this cause: parents and guardians not realizing the fact of the great danger incurred by visiting infected houses.

Every available means was taken to arrest the spread of Scarlet Fever, so fatally prevalent in the Borough. A special request was sent to Medical Men to give early information of all cases coming under their notice, and the majority of these gentlemen readily acquiesced in the request, and from that time have kindly made returns to the Officer of Health.

The spread of Scarlet Fever, by means of Schools, was clearly proved, and the following special instructions were issued—one to parents and guardians, and the other to School Proprietors and Teachers. The first was to the following effect:—

“Scarlet Fever being at present unfortunately very prevalent and very fatal in the Borough, all parents and heads of households are urgently requested—

- (1.) To inform the Medical Officer of Health, at his Office, 17, East Cross Street, of each case immediately it arises.
- (2.) To isolate the patients, if possible.
- (3.) If this be impossible, to have them sent to, and treated in, the Corporation Hospital, Dunning Street.
- (4.) To send no children to School from houses in which the disease exists.
- (5.) In case of poverty, to apply to Inspector McKay for Disinfectants.”

The Notice issued to Proprietors of Schools, &c., was as follows :—

REPORT.

### Protection against Infectious Disease.

*To Proprietors of Schools, School Managers, and Teachers.*

As from personal enquiries made, there is every reason to believe that Scarlatina (at present Epidemic in the Borough), Measles, and other Infectious Diseases, which from time to time are more or less prevalent amongst children, are spread to a considerable extent by means of Schools, it is imperatively necessary that Proprietors of Schools, School Managers, and Teachers should take every precaution against such Diseases being introduced into their Schools; and with a view of assisting them in that direction, I have been desired by the Health Committee to make such *recommendations* as might seem advisable for effecting that object, and beg to submit the following—

1. That on admission into any School, it should be one of the requirements from parents that they should give notice to the Head Master or Mistress immediately on their becoming aware of the fact that Infectious Disease of any kind is in their houses.
2. That on receipt of such notice, the Master or Mistress shall give information thereof to the Medical Officer of Health.
3. That when any child is absent from School on the plea of illness, a letter from the parents or a certificate from a Medical Man should be required, stating the nature of such illness.
4. That a child who has suffered from Infectious Disease of any kind should not be allowed to re-enter the School without producing a certificate from a Medical Man, stating that he or she can do so without danger of infecting others.
5. That children should not be allowed to attend School from a house in which Infectious Disease is known to exist, as although not ill themselves, they are very likely to carry the infection to others, and so spread the disease.

## REPORT.

6. During the hours in which a School-room is not occupied, the upper and lower sashes of the windows should be opened so that the room may be thoroughly ventilated. It is desirable that in all School-rooms there should be means for cross ventilation.

7. During the Winter months, School-rooms should always be kept warm and comfortable, by means of open fires or stoves. It is a false notion to suppose that a number of children in a room is sufficient to keep such room warm; no doubt the temperature will be raised, but this is done by the extraction of the heat from the bodies of the children, which cannot but be injurious to their health; whereas, an open fire, whilst warming a room and keeping the children warm, also acts very efficiently as a means of ventilation.

8. Cleanliness among the scholars should be especially insisted upon, both as regards their clothes and persons. The greater the cleanliness of a School, and of the scholars attending it, the less likelihood there will be of infectious disease spreading, should it by any chance be introduced therein.

9. The School-room floors, desks, and forms should be thoroughly cleansed with soap and water, and the walls brushed down at least once a week; and at the end of each term the rooms should be disinfected with Sulphurous or Nitrous Acid, and cleansed throughout.

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The result of issuing these notices was that during the next two weeks no less than 136 cases of Scarlet Fever were reported to me, most of which, however, were convalescent.

Disinfection and  
Cleansing of  
Rooms.

Notices were served in all cases of Infectious Disease, upon the occupier of the premises in which the disease had been, to cleanse and disinfect the same; 802 notices were served during the year, and in 45 instances the premises were disinfected by one of the Inspectors.

Destruction of  
Infected  
Bedding, &c.

In 23 instances, when infected bedding, &c., was of such a character as to require destruction, the same was removed and burnt. In the case of poor persons, the articles so burnt were replaced at the cost of the Local Authority.

Disinfection by  
Heat.

During the year, a large quantity of bedding and clothing was disinfected by heat in the Disinfecting Chamber adjoining the Corporation Hospital.

From a return appended to this Report, and kindly furnished **REPORT.**  
to me by Mr. Thompson, the Vaccination Officer, it will be seen **Vaccination.**  
that the Vaccination Act is very efficiently carried out in this  
Borough.

During the year 14 seizures of Unsound Meat were made, and **Unsound Meat.**  
comprised 1,890 lbs. of Beef and Mutton; 539 lbs. of Pork;  
224 lbs. of Salt Tongues; 140 lbs. of Fish; and 7 couple of  
Rabbits. In all the cases the food was destroyed with the con-  
sent of the owners, and no proceedings were taken before the  
Magistrates. It is now becoming the practice amongst Butchers,  
&c., if they have any doubt as to the fitness for human food, of  
any animal or carcase in their possession to at once communicate  
with one of the Inspectors or myself, and have it examined  
before being offered for sale, a practice much to be commended,  
although it is to their own personal interest.

### SICKNESS AND DEATHS.

From the returns made by the Medical Officers of the Medical **Sickness and**  
Charities and Poor Law Districts, it appears that during the year, **Deaths.**  
12,554, or upwards of 12 per cent. of the entire population,  
received gratuitous Medical and Surgical aid—a higher per-  
centage than in any previous year, no doubt due, in a great  
measure, to the depressed state of trade, and consequent inability,  
on the part of many persons, to pay for Medical advice.

Of the number above-mentioned, 10,082 were recipients at the  
hands of the Medical Charities, and 2,642 were under the care of  
the Parish Medical Officers.

The introduction of the Provident Dispensary system into the  
town, will have the effect of reducing the number of cases treated  
by the Poor Law Medical Officers, as by a weekly payment, so  
small that the great majority of the poor can afford to pay,  
Medical aid will at all times be readily obtained, in the place of  
the dangerous delays which now necessarily occur when a sick  
person's friend either has to seek a Medical order from the Relieving  
Officer, or travel for hours up and down the town in search of a  
Dispensary Ticket.



# SANITARY REPORT.

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## SANITARY REPORT.

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THE Sanitary condition of the Borough during the year has been carefully looked after by the Health Committee and its officials, and every practicable means of improving that condition been carefully carried out.

## General Inspection of the Borough.

The Borough is divided into blocks for periodical inspection by the Inspectors of Nuisances, and a complete inspection of the whole Borough is made once in every six or eight weeks. Of course, there are certain Districts which require much more careful and constant supervision than others, especially Sunderland Parish, and certain portions of Bishopwearmouth and Monkwearmouth.

During the year, 4,378 notices were served by the Inspectors for the Sanitary improvement of Houses and Premises, and 50 persons were summoned before the Magistrates for infringement of the Public Health Act, of which number 28 were convicted, and ordered to abate the nuisances, and pay costs; 4 were fined five shillings and costs; and in 18 instances the summonses were withdrawn on payment of costs, the nuisances having been abated after the issue of the summonses.

In 320 instances notices were served to repair Spouts, which were defective; and in 4 to abate nuisances arising from Smoke.

The number of Nuisances reported were 1,902, of which 98 were abated without formal notice, and 1,756 were abated after notice being given, but without proceedings being taken.

The number of orders taken by the Inspectors, and private orders received at the Office, for the cleansing of Ash-pits, was 8,202, and the total number of loads removed and disposed of was 32,250, exclusive of the Scuttlings of Sunderland Parish, amounting to 6,240 tons, collected in quantities of about 20 tons day by day, and sent out to sea.

The principal subject which engaged the attention of the Health Committee during the year, was that of the Slaughter Houses, and in the month of May the following report was made by me to the Health Committee—

SANITARY  
REPORT.  
Slaughter  
Houses.

“I have caused a careful inspection to be made of the Slaughter Houses in the Borough, with special reference as to their dimensions, proximity to dwelling rooms, ventilation, drainage, construction of floors, water supply, hours of slaughtering, position of lairs, and general sanitary condition.

“There are 206 Butchers and 19 Pork Butchers in the Borough, and the number of persons employed in the trade is 364.

“The number of animals slaughtered in a year is as follows—Cattle, 10,972; Sheep and Lambs, 60,684; Pigs, 10,313; Calves, 982;—Total, 82,951.

“The total number of Slaughter Houses, Butchers and Pork Butchers Shops, including those in the Market, is 225; and of that number, in all but 62 instances, the slaughtering of animals is carried out in shops, and with 14 exceptions at any hour of the day, and in many instances, the slaughtering of animals is carried out in yards, cellars, &c.

“In the majority of cases, the dwelling rooms communicate directly with the shop and slaughter house, showing the great necessity for such shops being kept in a thoroughly good sanitary condition, particularly with regard to cleanliness, ventilation, and water supply.

“The sanitary condition of many of the slaughter houses is stated as bad, and in 5 instances as very bad.

“With reference to ventilation, in 93 instances it is stated to be good, and in 97 deficient.

“In 15 instances the Slaughter Houses have no water supply.

“The condition of the lairs is very unsatisfactory, and in a large number of instances, the Slaughter Houses have no proper lairs or hunger houses attached to them, and Cattle, Sheep, &c., are kept for days in open yards in all weathers, and in passages, coal-houses, and even cellars, until such time as they are slaughtered, a condition of things which ought not to be allowed to exist.

“The erection of Public Abattoirs in all large towns is very desirable. At the same time, there does not seem any probability of one being erected in this Borough for some time to come, unless the Butchers would take the subject up, and erect one themselves, as has been done with advantage in other places. Still, something should be done with a view of having the existing slaughter houses kept in a good sanitary condition; and to obtain so desirable an object, I would recommend that the existing slaughter houses be registered as is done in all the other large towns in the Kingdom, in accordance with the provisions of the 127th section of the Town Improvement Clauses Act; and that a set of Bye-Laws be prepared for the registration of the same, and also ‘That from and after the 1st of July next, no new place or premises shall be used or occupied as a slaughter house without a license being obtained for the erection of the same in accordance with the 126th section of the said Act.’ The effect of which will be that in all new premises proper accommodation will have to be provided for the keeping as well as for the slaughtering of Cattle, &c.

“By making the licensing prospective and not retrospective, no one’s interest will be affected, whilst at the same time a great sanitary improvement will be gradually introduced.”

The report was referred to a Sub-Committee, who subsequently recommended “That the report, and recommendations contained therein, be received and adopted,” which was unanimously agreed to by the Health Committee.

Since that time the whole of the Slaughter Houses have been registered, and each Butcher furnished with a copy of the Slaughter House Bye-laws; and in future no new shop or other premises can be used as a Slaughter House without the license of the Local Authority be first obtained.

It would add greatly to the improvement of the Borough in every way if the suggestions made in my report, that the Butchers should erect an Abattoir for themselves, could be carried out. Many of the most respectable and intelligent Butchers have stated to me that they are in favour of abolishing slaughtering in shops, which as at present carried out in many of them, is an outrage on public decency, and must have a demoralizing effect upon the minds of both old and young. The experience gained during the last two years, at the Abattoir of the River Wear Commissioners, where all the Foreign Cattle imported here, are slaughtered, must, I think, have convinced the majority of the trade that such a system is in every conceivable sense much more preferable than the one adopted in the town. I believe land could be obtained and an Abattoir erected near the Cattle Station in Monkwearmouth, at a reasonable cost; and I feel sure many out of the trade would assist by taking shares in a company when such a place was erected; then the Council could be fairly asked to prohibit all slaughtering in shops, and thus remove at once and for ever a system which the public at large would be thankful to see abolished.

The Common Lodging Houses, numbering 38, and registered to accommodate 985 persons, were inspected periodically, both by day and night, and found to be kept in a cleanly and orderly condition.

Common  
Lodging Houses.

It was not found necessary to take proceedings against any of the Lodging House Keepers for infringement of the Bye-Laws.

Five cases of Fever occurred in the Lodging Houses during the year, and were promptly removed to Hospital; of those removed 2 were Tramps, 2 were Labourers, and one was a Hawker.

The various premises in which offensive trades are carried out, were from time to time inspected, and when necessary, notices were served upon the owners to make improvements and alterations.

Offensive Trades

The Health Committee will grant no licenses to carry on the business of Tripe-dresser, Bone-boiler, &c.; and so long as such businesses are carried on without causing a nuisance, or being injurious to the health of the neighbourhood, the owners are not interfered with.

SANITARY  
REPORT.

## Sewerage Works

The amount of Sewerage Works carried out during the year has been but small, not but that more was required to be done, as there are several large areas requiring sewerage. Application has been made to the Local Government Board for a sum exceeding £20,000 for completing the sewerage of these areas ; and information has just been received that the loan has been granted, so that these necessary works will now be proceeded with. In the interest of the public health, it is highly desirable that all new blocks of property should be thoroughly and efficiently seweraged before the houses are allowed to be occupied.

## Unpaved Streets

From time to time the attention of the Health Committee has been called to the unsanitary condition of many of the unpaved streets, especially those in the Hendon, New Hendon, Rectory Park, Pallion, and Monkwearmouth Estates. Of course, this is a question which only pertains to the Health Committee, as their conditions affect the public health, as the paving and flagging is under the direction of the Highways Committee. It is, however, very desirable, not only on the ground of health, but also as affecting the comfort and convenience of the occupiers of the houses in such streets, that all the back streets in the Borough should be properly paved ; and I understand the whole question is under the consideration of the Committee.

Adulteration of  
Food Act.

In the month of April, 2 persons were summoned before the Magistrates for selling Adulterated Milk ; and on the cases being tried, although they were clearly proved, exception was taken by Mr. William Bell, Solicitor, that Inspector McKay, who had purchased the Milk, was not a prejudiced person within the meaning of the Act, and stated that a case had been granted by the Bench at Bath for the decision of the Court of Queen's Bench. Upon this, the cases were adjourned for three months, at the end of which, as no decision had been given by the superior Court, penalties of 20s. and costs were inflicted. During the last six months of the year no further action was taken by the Inspector in obtaining articles of food for analysis ; but it will be satisfactory to the public to know that the question of "prejudice" has been at length settled by the Court of Queen's Bench. Mr. Justice Mellor having given the following judgment within the last few

days—"The Court were of opinion that if the prejudice contemplated by the Act was to be regarded as one of a pecuniary nature, it would destroy the effect of a most salutary enactment which was not intended to limit its operations to the admixture of deleterious matter, but was meant to prevent the sale of articles containing any foreign admixture. It was not, in the opinion of the Court, the intention of the legislature to confine the person complaining to a private customer, and the public officer could not be precluded from prosecuting an offending party under the Act." Mr. Justice Lush concurred, observing "that the differences of opinion which unfortunately prevailed as to the construction of the Act, which was a most beneficial one, tended to cripple its operations." Judgment was accordingly given for the Appellant (the Inspector under the Act). As this decision now settles the question, the provisions of the "Adulteration of Food and Drugs' Act" will be carried out as heretofore.

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In concluding my report, I have to thank the Chairman, Vice-Chairman, and Members of the Health Committee, for the considerate attention they have at all times given to my Reports, and the recommendations contained therein; and I also take this opportunity of thanking the Mayor, Aldermen, and Councillors generally for unanimously re-electing me to the office of Medical Officer of Health.

The Health Department of this Corporation has increased considerably during the last five years, both as regards its staff, and the amount of work requiring to be done; and I have to express my satisfaction at the manner in which the sub-officials and employes generally have carried out their various duties. Inspectors McKay and Finlay, and Mr. Clement Thompson, Clerk in the Department, have done their work well and efficiently.

SANITARY  
REPORT.

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Mr. Wilkinson, the Superintendent of the Scavenging department, has been most energetic in carrying on his duties, which, at the end of the year, were of an exceptionally trying character; and to Mr. Trotter is also due a word of praise for the way in which the Stables and Horses have been attended to. It is gratifying to find that during a period of nearly two years not one horse has been lost, either by accident or disease.

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APPENDIX.

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## TABLE OF BIRTHS

*Registered in the Borough, from January 1st to December 28th, 1878.*

DISTRICTS.	First Quarter.		Second Quarter.		Third Quarter.		Fourth Quarter.		Total.		Total.	Rate per 1,000.
	M	F	M	F	M	F	M	F	M	F		
Sunderland .....	81	51	76	74	85	78	83	75	325	278	603	31·7
South Bishopwearmouth .....	220	176	181	193	179	178	174	161	754	708	1462	43·0
North Bishopwearmouth .....	196	167	184	185	173	161	195	154	748	667	1415	45·6
Monkwearmouth .....	137	156	142	170	140	142	137	137	556	605	1161	41·4
	634	550	583	622	577	559	589	527	2383	2258	4641	
Totals .....	1184		1205		1136		1116		4641		4641	41·3
Rate per 1,000 .....	10·4		10·7		10·1		10·0		41·3			

**TABLE OF DEATHS**

*Registered in the Borough for the Year ending December 28th, 1878.*

DISTRICTS.	Population.		First Quarter.		Second Quarter.		Third Quarter.		Fourth Quarter.		Totals.		Total.	Rate per 1,000.
	M	F	M	F	M	F	M	F	M	F	M	F		
Sunderland .....	48	76	64	77	84	67	73	69	269	289	558	29.3		
South Bishopwearmouth .....	85	90	110	93	104	121	92	103	391	407	798	20.6		
North Bishopwearmouth.....	118	112	114	190	115	108	111	105	458	425	883	25.9		
Monkwearmouth .....	67	74	80	99	89	94	58	64	294	331	625	20.5		
	318	352	368	369	392	390	334	341	1412	1452	2864	22.5		
Totals .....	122,459		737		782		675		3864		2864	22.5		
Rate per 1,000 .....			5.8.		5.2.		5.6.		22.5					

## IV.

OCCUPATION of PERSONS, 20 Years of Age and upwards,  
who died from the under-mentioned Diseases during 1878,

(Given as accurately as the Returns allowed.)

Occupation.	Heart Disease.	Phthisis.	Disease of Lungs.	Apoplexy.	Paralysis.	Cancer.	Totals.
Agents .....	..	1	1	..	-	..	2
Builders .....	2	..	..	..	..	..	2
Brakesman .....	..	..	..	..	..	1	1
Butchers .....	1	2	2	..	1	..	6
Boat-builders .....	1	1	..	..	..	..	2
Boilermaker .....	..	1	..	..	..	..	1
Bookbinder .....	..	..	..	..	1	..	1
Barman .....	..	..	1	..	..	..	1
Bricklayers .....	..	1	..	..	1	..	2
Brewer .....	1	..	..	..	..	..	1
Bottlemakers .....	1	1	..	..	1	..	3
Cabmen .....	..	1	1	1	..	..	3
Cutler .....	..	1	..	..	..	..	1
Confectioners .....	..	2	..	..	..	..	2
Clerks .....	..	4	1	..	..	..	5
Cordwainer .....	..	..	1	..	..	..	1
Cartmen .....	..	2	3	..	2	..	7
Cooper .....	..	1	..	..	..	..	1
China Dealer .....	..	..	1	..	..	..	1
Draper .....	1	..	..	..	..	..	1
Enginemen .....	2	1	..	..	1	..	4
Ferryman .....	..	..	1	..	..	..	1
Farrier .....	..	..	1	..	..	..	1
Fish Dealer .....	..	..	1	..	..	..	1
Glassmakers .....	1	..	1	..	1	..	3
Greengrocers .....	..	..	1	..	1	..	2
Gate Keeper .....	..	1	..	..	..	..	1
Gentlemen .....	1	..	1	..	1	..	3
Grocers .....	1	4	..	..	..	1	6
Gardeners .....	1	..	1	1	..	..	3
Gilder .....	1	..	..	..	..	..	1
Hatters .....	..	..	2	..	..	..	2
Hind .....	..	..	1	..	..	..	1
Hair Dressers .....	..	..	2	..	..	..	2
Hawkers .....	..	1	1	..	1	..	3
Innkeepers .....	..	2	1	..	..	..	3
Implement Maker .....	..	1	..	..	..	..	1
Joiners .....	3	1	2	..	2	1	9
Keelmen .....	2	1	..	..	1	1	5
Labourers .....	10	15	17	2	11	2	57
Lime Burner .....	..	..	1	..	..	..	1
Miners .....	3	3	3	..	2	1	12
Millwright .....	1	..	..	..	..	..	1
Carried forward .....	33	48	48	4	27	7	167

## V.

## OCCUPATION OF PERSONS.—Continued.

Occupation.	Heart Disease.	Phthisis.	Disease of Lungs.	Apoplexy.	Paralysis.	Cancer.	Total.
Brought forward . . . .	33	48	48	4	27	7	167
Moulders . . . . .	..	2	..	..	..	1	3
Mine Inspector . . . . .	..	..	..	..	..	1	1
Mast Maker . . . . .	..	..	..	..	..	1	1
Masons . . . . .	1	2	..	..	1	..	4
Miller . . . . .	..	..	..	..	1	..	1
Medical Assistant . . . . .	..	1	..	..	..	..	1
Nonconformist Minister . . . . .	..	..	..	1	..	..	1
Plumber . . . . .	..	..	1	..	..	..	1
Photographer . . . . .	..	..	..	..	..	1	1
Paper Maker . . . . .	..	1	..	..	..	..	1
Pensioner . . . . .	1	..	..	..	..	..	1
Puddler . . . . .	..	1	..	..	..	..	1
Potters . . . . .	..	..	..	..	2	..	2
Painters . . . . .	..	1	..	1	1	..	3
Policemen . . . . .	..	..	1	1	..	..	2
Plasterer . . . . .	..	1	..	..	..	..	1
Pilot . . . . .	..	..	..	..	1	..	1
Ropemakers . . . . .	..	1	..	1	1	..	3
Railway Guards . . . . .	..	2	..	..	..	..	2
Seamen . . . . .	7	3	7	5	3	1	26
Shipwrights . . . . .	6	4	2	2	5	..	19
Shoemakers . . . . .	2	..	1	1	2	..	6
Stokers . . . . .	..	1	..	1	..	..	2
Shipowner and Builder . . . . .	..	..	1	1	..	..	2
Solicitor . . . . .	..	..	..	1	..	..	1
Stone-cutter . . . . .	1	..	..	..	..	..	1
Surgeon . . . . .	..	..	1	..	..	..	1
Steward . . . . .	1	..	..	..	..	..	1
School Masters . . . . .	..	2	..	..	..	..	2
Smiths . . . . .	2	2	1	1	4	..	10
Sailmakers . . . . .	..	2	1	..	..	..	3
Saddler . . . . .	..	1	..	..	..	..	1
Sweep . . . . .	..	..	..	..	..	1	1
Spinner . . . . .	..	..	..	1	..	..	1
Sawyer . . . . .	1	..	..	..	..	1	2
Timber Measurer . . . . .	..	1	..	..	..	..	1
Tripe Dealer . . . . .	..	..	..	1	..	..	1
Tailors . . . . .	1	..	1	1	1	..	4
Travellers . . . . .	1	..	..	..	1	..	2
Not specified . . . . .	..	1	..	2	6	3	12
Totals . . . . .	57	77	65	25	56	17	297
Females . . . . .	61	79	73	22	40	32	307
Grand Totals . . . . .	118	156	138	47	96	49	604

## LIST OF STREETS

Wherein ZYMOTIC DISEASES occurred in the Year 1878,

(Given as accurately as the Returns allowed).

## SUNDERLAND DISTRICT.

Name of Street.	Fever.	Scarlatina.	Measles.	Diphtheria.	Whooping Cough.	Diarrhoea.	Removed to Hospital.	Deaths.
Bull open .....	..	1	..	..	3	2	..	4
Burleigh street.....	..	11	1	..	10	2	..	14
Bank street .....	..	4	..	..	..	..	..	2
Buck square .....	..	1	..	..	..	..	..	..
Barrack street .....	..	6	..	..	2	..	3	1
Chipchase street .....	..	1	..	..	..	..	..	1
Chapel street .....	..	..	..	..	2	..	..	1
Covent Garden street.....	..	5	..	..	..	2	..	3
Coronation street.....	3	..	..	..	..	..	3	1
Church street .....	..	3	..	..	2	..	..	2
Church walk .....	..	..	..	..	4	..	..	1
Cross place .....	1	1	..	..	..	1	1	2
Dunn's entry .....	..	..	..	..	1	..	..	1
Deans' yard .....	..	2	..	..	..	..	..	..
Etrick place.....	..	1	4	..	..	..	..	1
Fitters' row .....	..	..	..	..	4	..	..	1
Ferry landing .....	..	..	..	..	..	1	..	1
Flag lane .....	3	..	..	..	3	3	..	7
George street .....	1	5	1	..	1	1	..	5
Golden alley .....	1	4	3	..	1	2	..	6
Hartley street .....	3	11	..	..	..	..	1	2
Hodgskin street .....	1	1	..	..	2	..	..	2
Havelock street .....	..	2	..	..	1	..	..	2
High street .....	..	10	..	..	6	1	..	6
Hat case.....	..	..	..	..	2	1	..	2
Horn's lane .....	..	..	..	..	1	..	..	..
Low quay .....	1	1	..	..	3	..	..	4
Lucknow street .....	1	2	..	..	..	..	..	..
Lombard street.....	1	4	..	..	5	1	1	2
Low street.....	1	3	..	..	3	..	..	4
Minorca .....	..	2	4	..	..	1	..	4
Moorgate street .....	..	..	1	..	3	..	..	2
Maling's rigg .....	2	2	..	..	3	..	3	3
Maude's lane.....	1	..	..	..	..	..	1	..
Northumberland place .....	1	7	..	..	..	1	..	6
Nesham square.....	2	..	4	..	4	..	..	6
Nesham place .....	..	1	..	..	6	..	..	3
New Grey street .....	..	5	3	..	1	1	..	3
North Moor street .....	..	7	..	..	1	..	3	3
Old Grey street .....	..	1	..	..	..	..	..	..
Carried forward .....	23	104	21		74	20	16	108

## VII.

## SUNDERLAND DISTRICT—Continued.

Name of Street.	Fever.	Scarlatina.	Measles.	Diphtheria.	Whooping Cough.	Diarrhoea.	Removed to Hospital.	Deaths.
Brought forward .....	23	98	21	..	71	20	16	1
Palin's passage .....	2	..	..	..	..	1	2	1
Prospect row .....	..	4	..	..	..	..	..	2
Pottery bank .....	..	3	..	..	..	..	..	2
Queen street .....	1	10	..	..	3	5	1	9
Robinson's lane .....	..	5	..	..	..	1	..	4
Spring Garden lane .....	2	..	1	..	5	4	7	7
South alley .....	1	1	1	..	..	..	..	1
South Dock .....	1	3	1	..	..	..	2	..
Silver street .....	..	9	10	..	13	5	..	18
Stafford street .....	1	8	..	..	..	..	..	6
Sans street .....	1	1	..	..	3	1	..	4
Spencely lane .....	..	1	..	..	..	..	..	..
Thomas street .....	..	3	2	..	3	..	..	5
Trinity place .....	..	..	..	..	2	..	..	1
Trafalgar square .....	1	..	..	..	..	..	1	..
Union lane .....	..	..	..	..	..	1	..	1
Vine street and open .....	3	7	7	..	13	3	2	18
Warren street .....	..	3	..	..	3	..	..	3
Walton place .....	..	4	..	..	..	..	..	2
Total .....	36	166	43	..	119	41	31	192

## VIII.

## BISHOPWEARMOUTH DISTRICT.

Name of Street.	Fever.	Scarlatina.	Measles.	Diphtheria	Whooping Cough.	Diarrhoea.	Removed to Hospital.	Deaths.
Australia street .....	1	..	..	..	..	..	..	1
Albert street.....	..	1	..	..	1	..	..	2
Anne street, Ballast hills ..	..	..	..	..	1	..	..	1
Anne street .....	..	..	..	..	..	1	..	1
Addison street .....	..	..	..	..	..	2	..	2
Amberley street .....	..	..	..	..	..	1	..	1
Alfred street.....	..	1	..	..	..	..	..	..
Argyle street.....	..	1	..	..	..	..	..	1
Aylmer street .....	..	..	..	..	4	..	..	2
Aiskell street .....	..	3	..	..	..	..	..	3
Argyle square .....	..	4	..	..	..	..	..	1
Alexandra terrace .....	..	1	..	..	..	..	1	..
Athol road.....	3	..	..	..	2	..	..	1
Ayre's quay .....	2	2	..	..	..	2	1	3
Blandford street .....	..	..	..	..	1	..	..	..
Bramwell street .....	..	1	..	..	..	..	..	..
Bennett street .....	..	1	..	..	..	..	..	1
Bridge street.....	..	1	..	..	..	..	..	1
Brougham street .....	..	3	5	..	..	1	..	2
Bedford square.....	..	3	..	..	..	..	..	1
Barlow court.....	..	..	..	..	..	1	..	1
Coronation street.....	..	1	..	..	..	..	..	1
Clementina street .....	..	2	..	..	..	..	..	1
Cumberland street .....	1	..	1	..	..	1	1	2
Cirencester street.....	4	2	..	..	1	..	..	2
Castle street .....	..	..	..	..	..	1	..	1
Cornwall street .....	..	..	1	..	..	..	..	1
Catherine street .....	..	3	..	..	..	..	..	..
Catherine street, Millfield..	..	3	..	..	..	..	..	..
Cromwell street .....	..	6	4	..	..	..	..	1
Cousin street.....	..	16	..	..	..	..	7	6
Crow street .....	..	..	..	..	..	1	..	1
Clyde street .....	..	6	1	..	..	1	3	1
Cross street .....	..	1	..	..	..	..	..	1
Crowtree road .....	1	..	..	..	..	..	..	1
Chester place .....	..	1	..	..	..	..	1	..
Chester terrace.....	1	..	..	..	..	..	..	1
Carol street .....	..	4	..	1	..	..	..	1
Crescent row.....	4	5	3	..	..	1	3	4
Church street .....	5	4	..	..	..	1	2	4
Curtain .....	..	..	..	..	2	..	..	1
Clazey's buildings .....	..	..	..	..	3	..	..	1
Commercial road.....	..	1	..	..	..	..	..	1
Coatsworth street .....	..	..	..	..	..	1	..	1
Duke street .....	..	1	..	..	..	..	..	1
Dunning street.....	1	2	6	..	1	2	1	4
D'Arcy terrace.....	1	1	3	..	..	..	..	1
Deptford terrace .....	..	..	..	..	2	..	..	1
Carried forward ....	24	81	24	1	18	17	20	65

## IX.

## BISHOPWEARMOUTH DISTRICT—Contd.

Name of Street.	Fever.	Scarlatina.	Measles.	Diphtheria.	Whooping Cough.	Diarrhoea.	Removed to Hospital.	Deaths.
Brought forward .....	24	81	24	1	18	17	20	65
Dove street, Pallion.....	..	3	..	..	4	..	..	..
Deptford road .....	..	..	3	..	..	2	..	3
Dock terrace.....	..	..	2	..	2	..	..	2
Dannatt's court .....	..	..	..	..	..	1	..	1
East street.....	..	..	6	..	6	1	..	6
Elgin street .....	..	1	..	..	..	..	..	1
Eden street .....	..	..	..	..	2	..	..	1
Eden street West.....	..	1	..	..	..	..	..	1
Exhibition terrace .....	..	2	..	..	2	1	..	2
East Cross street .....	1	1	..	..	2	1	2	2
Ferguson street .....	..	..	..	..	..	1	..	1
Ford street .....	..	..	..	..	2	1	..	2
Frederick street .....	..	1	..	..	..	..	..	..
Foyle street .....	..	1	..	1	..	..	..	1
Farrington row .....	..	..	4	..	..	1	..	2
Ferry road.....	..	..	2	..	..	..	..	1
Fenwick terrace .....	..	..	..	..	4	1	..	3
Fowler terrace .....	..	1	2	..	..	1	..	4
Franklin street.....	..	3	..	..	..	..	..	1
Grace street, Pallion .....	..	..	..	..	..	1	..	1
Glass street .....	1	..	..	..	..	..	..	1
Granville street .....	..	4	..	..	..	..	..	..
Green street .....	..	..	..	..	3	..	..	2
Grove terrace .....	..	..	3	..	..	..	..	1
Gerald street.....	..	..	..	..	1	..	..	1
Gill Bridge avenue .....	..	..	4	..	..	..	..	1
Gibson terrace .....	1	1	..	..	..	..	..	..
Garden place.....	..	3	..	..	..	1	..	2
Garden street .....	..	..	..	..	3	..	..	1
Hind street .....	1	..	..	..	..	..	..	1
Howick street .....	..	2	..	..	3	..	..	1
Hetton street .....	..	..	3	..	3	..	..	2
Hawthorn street .....	..	..	..	..	..	2	..	2
Harold street.....	..	1	..	..	..	1	1	1
Hope street .....	1	2	2	..	..	2	..	5
Hedley street .....	..	1	2	..	..	1	..	3
Howarth street.....	..	2	..	..	..	1	..	2
Harrison street.....	..	2	..	..	..	1	..	2
Herrington street.....	..	6	..	..	..	2	..	4
Hume street .....	..	..	..	2	..	..	..	1
Hedworth street .....	..	4	2	..	..	2	..	3
Hillfield .....	..	..	3	..	..	2	..	3
Hendon street .....	..	8	1	..	..	2	..	4
Hendon road.....	..	5	..	..	..	2	..	3
Hind's bridge .....	..	1	..	..	..	..	..	..
Henry street .....	..	6	..	..	..	4	..	6
Carried forward .....	29	143	63	4	55	52	23	152



## BISHOPWEARMOUTH DISTRICT—Contd.

Name of Street.	Fever.	Scarlatina.	Measles.	Diphtheria.	Whooping Cough.	Diarrhoea.	Removed to Hospital.	Deaths.
Brought forward ....	29	143	63	4	55	52	23	152
High street West.....	..	7	..	..	..	..	5	1
Holmeside .....	..	5	..	..	..	..	..	..
Hopper street .....	1	2	..	..	..	1	..	2
Hudson road.....	..	..	..	..	..	1	..	1
Havelock terrace .....	..	4	..	..	..	..	..	1
Hylton road .....	..	7	..	..	..	1	2	2
Hill street .....	..	..	..	..	1	1	..	2
Infirmary .....	..	1	..	..	..	..	1	..
John street, Ballast hills ..	..	3	1	..	..	1	..	2
Johnson street .....	..	1	1	..	..	..	..	..
Johnson street South .....	..	3	1	..	..	2	..	..
James street .....	1	..	..	..	..	..	..	..
King street .....	1	..	..	..	..	..	..	1
King's road .....	..	2	..	..	..	..	..	1
Lawrence street .....	..	1	..	..	3	..	..	3
Lister street .....	..	7	..	..	6	1	..	4
Lilburn street .....	1	1	..	1	5	..	..	4
Lambton street .....	1	..	..	..	..	2	..	3
Lime street .....	..	..	..	..	..	1	..	1
Lawton street .....	1	1	..	..	..	..	..	1
Lodge terrace .....	..	1	..	..	1	..	..	1
Lisburn terrace .....	1	1	..	..	..	..	..	..
Littlegate .....	..	..	1	..	..	..	..	1
Low row .....	1	..	..	..	..	..	..	1
Milburn street .....	1	..	..	..	..	..	1	..
Marlborough street.....	..	1	..	..	..	..	..	1
Margaret street .....	3	..	..	..	..	..	..	1
Moor street, Millfield .....	..	2	..	..	..	..	..	1
Moor terrace.....	..	4	..	..	..	..	..	1
Moor terrace.....	..	3	..	..	..	..	..	..
Moor street .....	..	5	..	..	..	2	1	5
Mainsforth terrace .....	..	5	..	..	3	..	..	4
Mowbray road .....	..	2	..	..	..	..	2	..
Mount pleasant .....	..	9	..	..	2	..	..	5
Nicholson street .....	1	..	..	..	2	..	..	2
North street .....	2	..	3	..	..	1	..	2
Napier street, Pallion.....	..	..	..	..	..	1	..	1
Nile street.....	..	9	5	..	..	3	..	4
Numbers' garth .....	1	..	..	..	..	1	1	..
Norman street .....	1	..	..	..	2	1	..	4
Noble's bank road .....	..	..	..	..	2	..	..	..
North Durham street .....	..	..	..	..	1	..	..	1
North Ravensworth street..	..	3	..	..	..	..	..	1
Picton street.....	..	7	..	..	..	..	..	4
Panns .....	..	..	..	..	..	2	..	1
Pickard street .....	5	..	..	..	..	..	4	1
Carried forward ....	51	240	75	5	83	74	40	223

BISHOPWEARMOUTH DISTRICT—Contd.

Name of Street.	Fever.	Scarlatina.	Measles.	Diphtheria.	Whooping Cough.	Diarrhoea.	Removed to Hospital.	Deaths.
Brought forward . . . .	51	240	75	5	83	74	40	223
Pemberton street . . . . .	..	..	3	..	3	..	..	2
Palmer street . . . . .	..	..	3	..	1	..	..	2
Parade . . . . .	..	1	..	..	9	1	..	4
Page street . . . . .	..	..	3	..	4	..	..	2
Peacock street West . . . . .	..	..	..	..	..	1	..	1
Paley street . . . . .	..	..	..	..	..	1	..	1
Queen street . . . . .	2	..	1	..	..	..	1	1
Rosalie terrace . . . . .	..	..	..	..	..	1	..	1
Robinson terrace . . . . .	..	1	1	..	..	2	..	2
Ropery road . . . . .	..	..	2	..	..	..	..	..
Rutland street . . . . .	3	..	..	..	..	1	1	1
Rectory terrace . . . . .	..	3	..	..	..	..	..	..
Rosedale street . . . . .	..	1	..	..	..	..	..	1
Ropery road . . . . .	..	2	..	..	..	..	..	..
Railway street . . . . .	..	2	..	..	..	..	..	1
Ridley terrace . . . . .	..	..	..	..	..	1	..	1
Rock terrace . . . . .	..	..	..	..	1	..	..	1
River Wear . . . . .	..	..	1	..	..	1	2	..
Smyrna place . . . . .	..	1	..	..	..	..	..	..
Stanley street . . . . .	..	4	2	..	..	..	..	2
Summerhill . . . . .	..	2	..	..	..	..	..	..
Silksworth row . . . . .	..	5	..	..	..	..	..	2
Southgate . . . . .	..	1	..	..	..	1	..	2
Smyrna Home, Borough road	2	..	..	..	..	..	2	..
Stanhope street . . . . .	..	..	..	..	4	1	..	3
Sydenham place . . . . .	..	..	..	..	1	..	..	1
Short street . . . . .	..	1	2	..	..	..	..	2
Saint Vincent street . . . . .	..	..	..	1	..	..	..	1
St. Marks buildings . . . . .	..	..	..	..	..	1	..	1
St. Cuthbert's terrace . . . . .	..	..	..	2	..	1	..	2
Sussex street . . . . .	1	..	..	..	1	..	..	1
South Durham street . . . . .	..	8	..	..	..	2	..	4
South Moor street . . . . .	..	2	..	..	..	..	..	1
Simpson street . . . . .	..	1	2	1	..	1	..	4
Somerford place . . . . .	..	..	..	..	..	1	..	1
Sunderland street . . . . .	..	..	..	..	..	1	..	1
Tatham street . . . . .	..	1	1	..	..	..	2	..
Toward terrace . . . . .	..	1	..	..	..	..	..	..
The Royalty . . . . .	..	..	..	1	..	1	..	2
Trimdon street . . . . .	2	1	..	..	..	1	..	4
Tees street . . . . .	..	4	..	..	2	2	..	4
Tyne street . . . . .	..	4	..	..	..	..	..	1
Thompson street . . . . .	..	..	2	..	..	..	..	1
Trewhitt's crescent . . . . .	..	..	3	..	..	1	..	2
The Retreat . . . . .	..	3	..	..	..	..	..	..
Tweed street . . . . .	..	1	..	..	..	..	..	..
Carried forward . . . .	61	290	101	10	109	97	48	286

## BISHOPWEARMOUTH DISTRICT—Contd.

Name of Street.	Fever.	Scarlatina.	Measles.	Diphtheria.	Whooping Cough.	Diarrhoea.	Removed to Hospital.	Deaths.
Brought forward ....	61	290	101	10	109	97	48	286
Tower street.....	..	2	..	..	..	2	..	3
Thornhill crescent .....	..	..	..	..	..	1	..	1
Upper Sans street .....	..	..	1	..	2	..	..	2
Vane terrace.....	..	1	..	..	..	..	..	..
Villiers street .....	..	2	2	..	1	1	..	3
Wellington lane .....	..	..	..	..	..	2	..	2
Westbourne road .....	..	..	..	..	..	1	..	1
West Sunnyside .....	..	4	..	..	..	..	..	1
Westbury street .....	..	4	..	..	..	1	..	2
Washington street .....	..	..	5	..	..	..	..	2
West street .....	..	..	6	..	..	..	..	1
Woodbine terrace .....	..	..	1	..	..	..	..	1
Wall street .....	..	3	..	..	..	..	..	1
Wilson street .....	..	1	..	..	3	..	..	1
Woodbine street .....	..	3	..	..	..	1	..	..
Water street.....	4	..	..	..	..	1	..	3
Wood street .....	1	..	..	..	..	1	1	..
Wear street .....	1	8	1	..	4	1	1	6
Ward street .....	1	6	5	..	1	..	..	4
Ward terrace .....	1	2	..	..	..	..	..	1
Woodbine terrace, Pallion..	..	..	..	..	4	..	..	..
William street .....	..	..	..	..	2	..	..	1
Williams street .....	..	..	..	..	3	..	..	1
Walker street .....	..	3	..	..	..	..	..	1
West Wear street .....	1	2	..	..	..	..	..	1
York street .....	..	..	..	..	5	..	..	2
Zion street.....	..	3	2	..	5	..	..	6
Total .....	70	334	124	10	139	109	50	333

## XIII.

## MONKWEARMOUTH DISTRICT.

Name of Street.	Fever.	Scarlatina.	Measles.	Diphtheria.	Whooping Cough.	Diarrhoea.	Removed to Hospital.	Deaths.
Albany street .....	..	4	14	..	1	..	..	4
Byron street .....	..	1	2	..	..	..	..	1
Bloomfield street .....	..	3	..	..	..	1	..	1
Brooke street .....	2	7	3	..	3	1	..	8
Barrington street .....	2	..	2	..	..	..	..	1
Brandling street .....	3	1	1	..	2	3	..	6
Barclay street .....	1	..	1	..	..	..	1	1
Bond street .....	..	..	11	..	2	2	..	3
Back Stables .....	..	..	..	..	1	1	..	2
Calver street .....	..	..	..	..	..	1	..	1
Church street .....	6	1	3	..	..	3	..	4
Chilton street .....	..	1	..	..	..	..	..	..
Charles street .....	..	..	3	..	..	..	..	1
Cage hill .....	1	3	1	..	..	1	..	1
Colliery square .....	..	3	..	..	..	1	..	2
Causeway .....	..	..	4	..	3	..	..	2
Dundas street .....	2	..	..	..	2	1	..	2
Duke street .....	..	..	..	..	..	1	..	1
Devonshire street .....	..	2	..	..	..	..	..	1
Dame Dorothy street .....	..	..	..	1	1	1	..	3
Dock street .....	..	5	2	..	2	1	..	6
Dixon's square .....	..	..	2	..	..	1	..	2
Edmundson street .....	..	2	..	..	..	..	..	1
Finsbury street .....	..	..	..	..	4	2	..	4
Fulwell road .....	..	..	..	..	..	1	..	1
Gladstone street .....	..	..	4	..	..	..	..	1
Gosforth street .....	2	2	3	1	8	2	..	8
George street .....	..	3	..	..	..	2	..	1
Garden court .....	..	..	5	..	..	..	..	1
Hay street .....	2	..	..	..	..	..	..	1
Hamilton street .....	2	1	1	..	..	1	..	3
Hardwicke street .....	2	1	10	..	4	..	1	5
Hood street .....	5	2	..	1	2	..	3	3
Huddlestons street .....	1	1	..	..	..	..	..	1
Howick street .....	..	1	6	..	..	1	..	2
Hedworth street .....	..	..	5	..	3	..	..	4
Hodgson's buildings .....	1	..	..	..	2	..	..	2
Hallgarth square .....	..	..	1	..	..	..	..	..
Liddell street .....	..	3	1	..	..	1	..	1
Look-out hill .....	7	..	3	..	..	..	5	3
Long row .....	..	3	2	..	2	2	..	5
Mill row .....	..	..	5	..	..	..	..	1
Millum terrace .....	..	1	2	..	4	3	..	8
Mulgrave street .....	..	..	4	2	..	1	..	3
Pilgrim street .....	..	1	..	..	2	..	..	1
Normanby street .....	..	..	..	..	..	1	..	1
Portobello lane .....	..	6	1	..	1	..	..	2
Rendlesham street .....	..	2	..	..	..	..	..	1
Carried forward .....	39	60	102	5	49	36	10	117

## XIV.

## MONKWEARMOUTH DISTRICT—Contd.

Name of Street.	Fever.	Scarlatina.	Measles.	Diphtheria.	Whooping Cough.	Diarrhoea.	Removed to Hospital.	Deaths.
Brought forward . . . .	39	60	102	5	49	36	10	117
Rothsay street . . . . .	2	..	..	..	..	..	..	1
Richmond street . . . . .	2	5	..	..	..	..	..	..
Roker avenue . . . . .	..	1	4	..	..	1	..	1
Society lane . . . . .	4	2	3	..	..	..	2	1
Stobart street . . . . .	..	..	..	..	..	1	..	1
Southwick lane . . . . .	..	..	..	1	..	..	..	..
Sheepfolds . . . . .	..	2	..	..	..	..	..	..
Strand . . . . .	..	..	3	..	..	..	..	..
Victor street . . . . .	5	4	2	..	10	..	2	9
Whickham street . . . . .	..	..	..	..	10	1	..	3
Wilson street . . . . .	2	..	4	..	2	2	..	5
Wayman street . . . . .	..	7	6	..	..	5	..	10
Waterloo street . . . . .	..	3	2	..	..	..	..	2
Williamson street . . . . .	..	..	13	..	1	1	..	4
Woodger's buildings . . . . .	..	..	..	..	..	2	..	2
Whitburn street . . . . .	..	1	7	..	4	3	..	3
Wear street . . . . .	..	..	2	..	..	..	..	1
Warwick street . . . . .	..	..	3	..	..	2	..	3
Williamson terrace . . . . .	..	..	..	..	1	..	..	1
Wardle terrace . . . . .	..	1	..	4	..	..	..	..
Wreath quay road . . . . .	..	5	..	..	..	2	..	2
Zetland street . . . . .	..	..	2	..	2	1	..	3
Total . . . . .	54	91	153	10	79	57	14	169
Sunderland District . . . . .	36	166	43	—	119	41	31	192
Bishopwearmouth District	70	334	124	10	139	109	50	365
Monkwearmouth District	54	91	153	10	79	57	14	169
Grand Totals . . . . .	160	591	320	20	337	207	95	726

STATEMENT OF VACCINATION IN THE SUNDERLAND UNION, FOR THE YEAR ENDING DECEMBER, 1877.

REGISTRATION DISTRICTS.	Births Registered.	Vaccinated by Public Vaccinator.	Vaccinated by Private Medical Practitioners	Total Vaccinated.	Postponed by Medical Authority.	Dead previous to Removal.	Removals into other Unions.	Still in Abeyance.
Sunderland East .....	380	174	151	325	3	43	9	—
Sunderland West .....	260	178	47	225	5	22	8	—
Bishopwearmouth South .....	1734	739	750	1489	29	158	48	9
Bishopwearmouth North .....	1502	701	513	1214	16	149	117	5
Monkwearmouth .....	1423	814	393	1207	6	157	51	2
<b>TOTALS .....</b>	<b>5299</b>	<b>2606</b>	<b>1854</b>	<b>4462</b>	<b>59</b>	<b>529</b>	<b>233</b>	<b>16</b>

JOHN THOMPSON, Vaccination Officer.

TABLE OF METEOROLOGICAL OBSERVATIONS

*From January to March, 1878.*

JANUARY.						FEBRUARY.					MARCH.						
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	30·200	44·0	37·0	SW	·00	1	30·536	44·0	31·0	NW	·00	1	29·363	60·0	47·0	SW	·09
2	30·285	48·0	38·0	NW	·01	2	30·390	50·0	39·0	NW	·00	2	29·736	55·0	45·0	NW	·00
3	29·972	50·0	39·0	NW	·00	3	30·351	46·0	36·0	NNW	·00	3	30·228	54·0	49·0	W	·00
4	30·049	45·0	44·0	NE	·21	4	30·500	44·0	40·0	NNW	·00	4	30·244	54·0	47·0	SW	·00
5	30·086	47·0	42·0	SW	·12	5	30·507	44·0	39·0	SW	·00	5	30·197	58·0	41·0	SW	·00
6	29·885	45·0	42·0	NW	·00	6	30·480	46·0	36·0	SW	·00	6	29·561	57·0	47·0	NW	·00
7	29·326	43·0	37·0	SW	·02	7	30·450	52·0	34·0	SW	·00	7	29·472	56·0	42·0	NW	·08
8	29·928	43·0	37·0	NE	·23	8	30·540	52·0	42·0	NW	·01	8	29·866	50·0	38·0	NW	·00
9	30·234	39·0	35·0	NNE	·15	9	30·250	45·0	35·0	WSW	·00	9	30·139	47·0	31·0	NW	·00
10	30·320	39·0	32·0	NW	·04	10	29·952	42·0	37·0	W	·00	10	29·847	56·0	37·0	NW	·09
11	30·556	41·0	33·0	NW	·00	11	29·963	46·0	36·0	NNW	·00	11	29·967	52·0	45·0	NW	·00
12	30·527	41·0	32·0	NW	·00	12	30·212	44·0	37·0	SW	·05	12	30·231	51·0	37·0	NW	·00
13	30·300	49·0	38·0	WNW	·01	13	29·900	42·0	34·0	SSE	·22	13	29·373	47·0	36·0	NNW	·00
14	30·100	49·0	40·0	WNW	·02	14	29·900	44·0	37·0	SE	·11	14	30·500	47·0	35·0	NW	·00
15	30·102	51·0	42·0	SW	·08	15	29·929	47·0	38·0	SW	·38	15	30·483	48·0	37·0	NNW	·00
16	29·935	55·0	47·0	WNW	·02	16	29·962	48·0	41·0	SW	·04	16	30·633	47·0	37·0	NNE	·02
17	30·310	47·0	40·0	SW	·00	17	30·000	57·0	47·0	SW	·00	17	30·542	52·0	41·0	NW	·00
18	30·411	45·0	35·0	WSW	·00	18	29·835	52·0	42·0	SW	·00	18	30·212	58·0	40·0	NW	·00
19	30·316	48·0	41·0	SW	·05	19	30·319	48·0	39·0	SW	·00	19	30·261	54·0	44·0	NW	·00
20	30·040	52·0	41·0	W	·00	20	29·975	53·0	42·0	SW	·00	20	30·332	57·0	43·0	WNW	·00
21	29·740	51·0	44·0	NW	·00	21	30·360	56·0	42·0	SW	·00	21	30·116	59·0	45·0	NW	·00
22	29·928	42·0	35·0	SW	·56	22	30·450	58·0	46·0	SW	·00	22	29·978	43·0	33·0	NNW	·00
23	29·364	39·0	35·0	SW	·09	23	30·287	54·0	43·0	SW	·00	23	29·691	47·0	30·0	NW	·00
24	29·247	40·0	35·0	NNW	·00	24	30·190	50·0	40·0	WNW	·00	24	29·450	40·0	31·0	NNE	·00
25	29·348	39·0	25·0	NW	·13	25	29·938	50·0	41·0	WNW	·00	25	29·780	42·0	28·0	NW	·06
26	29·943	41·0	28·0	NW	·05	26	29·885	47·0	42·0	SW	·00	26	29·966	47·0	30·0	NW	·10
27	30·061	40·0	35·0	SSW	·05	27	29·695	51·0	44·0	SW	·07	27	29·779	46·0	32·0	NNW	·06
28	29·600	45·0	33·0	WSW	·49	28	29·658	53·0	46·0	SW	·02	28	29·638	46·0	32·0	NW	·00
29	30·000	38·0	30·0	NW	·00							29	29·585	45·0	35·0	NW	·10
30	30·290	38·0	31·0	NW	·01							30	29·390	45·0	30·0	NNW	·18
31	30·553	44·0	31·0	NW	·00							31	29·300	41·0	30·0	NNW	·04

  

Mean Height of Barometer in Month, 30·03.	Mean Height of Barometer in Month, 30·16	Mean Height of Barometer in Month, 29·97
Adopted Mean Temperature 41·86.	Adopted Mean Temperature 44·12.	Adopted Mean Temperature 44·16.
Rainfall, 2·34.	Rainfall, 0·90.	Rainfall, 0·82.

TABLE OF METEOROLOGICAL OBSERVATIONS

From April to June, 1878.

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	28·883	46·0	31·0	NW	·16	1	29·600	54·0	46·0	ESE	·11	1	30·086	59·0	44·0	NE	·03
2	28·984	47·0	31·0	NW	·32	2	29·761	64·0	46·0	ESE	·00	2	30·016	57·0	46·0	SSE	·00
3	29·350	47·0	36·0	WSW	·17	3	29·900	63·0	51·0	WNW	·12	3	29·916	56·0	49·0	SW	·17
4	29·668	55·0	35·0	WNW	·00	4	29·900	62·0	47·0	WNW	·01	4	29·838	50·0	48·0	ENE	·06
5	29·800	51·0	35·0	NE	·00	5	30·010	68·0	49·0	SW	·00	5	29·978	60·0	47·0	NNW	·13
6	30·080	54·0	36·0	SSW	·00	6	29·860	60·0	47·0	ESE	·00	6	30·156	60·0	47·0	NNW	·00
7	30·257	50·0	37·0	SSE	·00	7	29·700	51·0	47·0	NNE	·04	7	30·061	61·0	49·0	SW	·15
8	30·116	51·0	39·0	SSE	·00	8	29·824	49·0	45·0	E	·59	8	29·723	57·0	52·0	SSE	·01
9	30·177	52·0	40·0	SE	·00	9	29·975	55·0	44·0	SE	·10	9	29·408	75·0	53·0	SW	·25
10	30·161	47·0	41·0	SE	·02	10	29·980	58·0	45·0	SE	·00	10	29·467	69·0	51·0	SW	·13
11	30·191	58·0	42·0	ESE	·00	11	29·720	58·0	45·0	NE	·10	11	29·526	61·0	50·0	SE	·04
12	30·241	56·0	39·0	ESE	·00	12	29·573	62·0	42·0	S	·36	12	29·300	61·0	51·0	SW	·64
13	30·100	49·0	44·0	SSE	·00	13	29·487	54·0	46·0	SSE	·30	13	29·811	56·0	46·0	NNE	·05
14	29·870	68·0	46·0	WSW	·04	14	29·341	63·0	49·0	SW	·01	14	29·911	64·0	45·0	NE	·00
15	29·850	73·0	49·0	WNW	·00	15	29·263	54·0	50·0	SE	·05	15	29·863	59·0	45·0	NNE	·00
16	29·795	58·0	48·0	WSW	·00	16	29·611	59·0	50·0	SW	·12	16	29·811	55·0	46·0	NE	·00
17	29·620	52·0	49·0	SW	·78	17	29·556	59·0	53·0	SW	·08	17	29·763	59·0	50·0	NNW	·00
18	29·700	54·0	44·0	SW	·25	18	29·704	67·0	50·0	SE	·05	18	29·831	67·0	50·0	NW	·01
19	29·670	52·0	42·0	SW	·00	19	29·558	62·0	49·0	SSW	·55	19	29·927	67·0	50·0	SW	·00
20	29·523	49·0	45·0	SSE	·00	20	29·673	48·0	46·0	NW	·19	20	30·020	66·0	52·0	SW	·00
21	29·623	56·0	45·0	SSW	·54	21	29·640	62·0	40·0	NW	·00	21	29·948	74·0	51·0	SW	·00
22	29·916	48·0	43·0	SSE	·00	22	29·784	61·0	44·0	NW	·01	22	30·150	72·0	52·0	E	·00
23	29·117	50·0	44·0	NNE	·17	23	29·429	58·0	47·0	SE	·03	23	30·100	75·0	56·0	SE	·00
24	29·813	56·0	44·0	NE	·00	24	29·285	52·0	46·0	NE	·20	24	30·020	77·0	60·0	SW	·00
25	30·016	54·0	43·0	NE	·00	25	29·479	58·0	42·0	NW	·00	25	30·180	74·0	62·0	SE	·00
26	30·116	53·0	42·0	NE	·00	26	29·678	63·0	45·0	S	·02	26	30·150	75·0	59·0	ESE	·00
27	30·230	54·0	40·0	NE	·00	27	29·666	62·0	47·0	SW	·03	27	30·130	79·0	63·0	WSW	·05
28	30·172	52·0	41·0	SE	·00	28	29·816	65·0	50·0	ENE	·12	28	30·030	75·0	59·0	E	·00
29	30·072	60·0	39·0	SSE	·00	29	30·066	58·0	48·0	NE	·00	29	30·025	73·0	57·0	E	·00
30	29·723	47·0	44·0	ESE	·00	30	30·116	60·0	45·0	SW	·00	30	29·900	64·0	57·0	NNE	·00
						31	30·066	62·0	49·0	NE	·01						
Mean Height of Barometer in Month, 29·85.						Mean Height of Barometer in Month, 29·71.					Mean Height of Barometer in Month, 29·90.						
Adopted Mean Temperature 47·21.						Adopted Mean Temperature 53·50.					Adopted Mean Temperature 58·43.						
Rainfall, 2·45.						Rainfall, 3·20					Rainfall, 1·72.						



XVIII.

TABLE OF METEOROLOGICAL OBSERVATIONS

*From July to September, 1878.*

JULY.						AUGUST.						SEPTEMBER.					
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	29.925	63.0	53.0	NNW	.00	1	30.348	72.0	51.0	ESE	.00	1	29.900	67.0	56.0	NNW	.07
2	29.900	62.0	50.0	NNW	.05	2	30.192	66.0	57.0	NE	.00	2	30.180	71.0	55.0	NNW	.00
3	29.900	63.0	50.0	NNE	.04	3	29.946	65.0	59.0	NE	.00	3	30.060	76.0	59.0	WSW	.00
4	30.015	72.0	48.0	WNW	.00	4	29.895	65.0	59.0	ENE	.62	4	30.131	68.0	60.0	SE	.01
5	29.873	67.0	58.0	WSW	.01	5	29.922	72.0	58.0	ENE	.26	5	30.042	67.0	57.0	NE	.00
6	29.788	79.0	61.0	WNW	.03	6	29.788	66.0	59.0	SE	.02	6	29.966	77.0	58.0	WSW	.00
7	29.880	74.0	57.0	NW	.00	7	29.643	81.0	59.0	WSW	.23	7	30.086	75.0	60.0	WSW	.00
8	30.090	70.0	54.0	NNE	.10	8	29.862	76.0	59.0	SW	.00	8	30.100	71.0	57.0	ENE	.00
9	28.889	70.0	54.0	SW	.00	9	30.092	72.0	57.0	SE	.00	9	29.870	72.0	57.0	ENE	.00
10	29.744	71.0	55.0	NW	.01	10	29.714	62.0	58.0	SSW	.09	10	30.174	73.0	51.0	NW	.00
11	29.700	66.0	50.0	NW	.00	11	29.706	77.0	53.0	SE	.60	11	30.170	79.0	52.0	SW	.00
12	29.820	65.0	54.0	NE	.02	12	29.357	79.0	57.0	WSW	.00	12	29.950	60.0	53.0	NNW	.00
13	29.950	70.0	52.0	NE	.01	13	29.390	72.0	57.0	NW	.01	13	30.052	74.0	49.0	NW	.03
14	30.042	71.0	55.0	NE	.00	14	29.267	73.0	57.0	NE	.12	14	29.855	66.0	49.0	SW	.06
15	30.142	68.0	57.0	NW	.00	15	29.464	66.0	54.0	SSE	.00	15	29.450	63.0	58.0	SW	.06
16	30.194	78.0	55.0	NW	.00	16	29.390	65.0	55.0	SW	.03	16	29.400	68.0	49.0	NW	.22
17	30.250	85.0	61.0	NW	.00	17	29.658	68.0	52.0	NW	.21	17	29.606	71.0	52.0	NW	.06
18	30.274	90.0	65.0	NW	.00	18	29.900	76.0	57.0	NW	.03	18	29.524	63.0	54.0	NW	.03
19	30.268	83.0	65.0	NW	.00	19	29.933	74.0	55.0	NE	.00	19	29.563	63.0	47.0	NW	.03
20	30.118	79.0	66.0	N	.00	20	29.947	72.0	56.0	NE	.00	20	29.829	60.0	45.0	NNE	.16
21	30.086	75.0	60.0	NE	.00	21	30.035	70.0	55.0	SE	.00	21	30.072	59.0	43.0	NW	.04
22	30.139	66.0	58.0	NE	.00	22	30.043	70.0	52.0	SE	.00	22	29.826	62.0	48.0	SSW	.04
23	30.073	62.0	58.0	SW	.00	23	29.800	64.0	56.0	E	.00	23	29.327	63.0	47.0	SW	.33
24	29.791	65.0	57.0	SE	.00	24	29.514	64.0	56.0	NE	.36	24	29.616	66.0	45.0	NW	.04
25	29.641	75.0	59.0	NE	.00	25	29.475	67.0	57.0	NE	.07	25	29.423	58.0	48.0	SW	.33
26	29.688	68.0	59.0	NNW	.09	26	29.449	71.0	57.0	NW	.01	26	29.769	68.0	44.0	NW	.04
27	29.985	62.0	55.0	NNE	.03	27	29.538	75.0	56.0	SW	.10	27	29.923	65.0	47.0	NW	.00
28	29.960	68.0	52.0	SSE	.00	28	29.571	70.0	57.0	SW	.06	28	30.000	57.0	51.0	WSW	.00
29	30.024	69.0	53.0	NE	.08	29	29.694	62.0	55.0	ESE	.00	29	30.000	57.0	53.0	SW	.00
30	30.198	67.0	55.0	NE	.00	30	29.297	66.0	57.0	WSW	.51	30	29.541	58.0	53.0	SSW	.13
31	30.390	73.0	55.0	NE	.00	31	29.500	65.0	56.0	NNW	1.16						
Mean Height of Barometer in Month, 29.75.						Mean Height of Barometer in Month, 29.72.						Mean Height of Barometer in Month, 29.84.					
Adopted Mean Temperature 63.50.						Adopted Mean Temperature 63.0.						Adopted Mean Temperature 59.23.					
0.47.						Rainfall, 4.49.						Rainfall, 1.47.					

TABLE OF METEOROLOGICAL OBSERVATIONS

From October to December, 1878.

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.	Rainfall.
		Highest.	Lowest.					Highest.	Lowest.					Highest.	Lowest.		
1	30·022	61·0	46·0	N	·07	1	29·966	46·0	35·0	NE	·18	1	29·653	44·0	37·0	NNW	·09
2	30·240	65·0	41·0	NW	·00	2	30·192	47·0	35·0	NNE	·31	2	30·028	42·0	36·0	NW	·00
3	29·972	66·0	49·0	W	·00	3	30·216	45·0	38·0	NNE	·11	3	30·022	44·0	38·0	NE	·29
4	30·060	64·0	53·0	WSW	·00	4	30·239	45·0	37·0	WNW	·02	4	30·286	40·0	34·0	NW	·03
5	30·004	67·0	55·0	SW	·00	5	29·879	43·0	40·0	NW	·10	5	30·034	43·0	35·0	NW	·08
6	29·754	66·0	55·0	S	·01	6	29·485	45·0	37·0	NNW	·16	6	29·967	38·0	31·0	NW	·08
7	29·456	68·0	57·0	SW	·03	7	29·693	44·0	38·0	NNW	·52	7	29·629	35·0	33·0	NW	·05
8	29·104	68·0	56·0	SW	·00	8	29·369	42·0	37·0	NNE	·19	8	29·515	34·0	31·0	NW	·71
9	29·358	64·0	55·0	SW	·02	9	30·084	43·0	32·0	NW	·26	9	29·590	36·0	30·0	NW	1·15
10	28·913	61·0	54·0	S	·16	10	29·206	51·0	37·0	SW	·03	10	29·825	36·0	28·0	NW	·06
11	29·523	61·0	52·0	W	·07	11	29·316	44·0	37·0	NW	·00	11	29·900	35·0	29·0	NE	·14
12	30·072	67·0	49·0	WNW	·00	12	29·142	38·0	30·0	NW	·17	12	29·647	32·0	28·0	NW	·00
13	30·147	65·0	46·0	SW	·00	13	29·468	42·0	33·0	NW	·01	13	29·600	25·0	20·0	NW	·00
14	30·078	60·0	46·0	SW	·00	14	29·667	45·0	35·0	NW	·02	14	29·630	30·0	13·0	NW	·00
15	30·022	60·0	49·0	W	·00	15	29·375	45·0	37·0	NE	·64	15	29·538	34·0	18·0	NW	·01
16	30·022	56·0	52·0	S	·00	16	29·220	45·0	41·0	NE	·80	16	29·465	33·0	18·0	NW	·00
17	29·922	60·0	52·0	SSE	·01	17	29·544	47·0	42·0	NNE	·40	17	29·388	33·0	29·0	NW	·04
18	29·922	57·0	48·0	SE	·00	18	30·128	48·0	42·0	NE	·10	18	29·028	35·0	28·0	SW	·00
19	29·916	64·0	53·0	S	·00	19	30·369	47·0	36·0	WNW	·00	19	29·016	37·0	29·0	NW	·19
20	29·819	55·0	53·0	W	·00	20	30·328	47·0	37·0	WNW	·00	20	29·447	33·0	27·0	NW	·02
21	29·225	55·0	52·0	SSW	·00	21	30·173	45·0	37·0	NW	·00	21	29·700	34·0	28·0	NW	·13
22	28·983	53·0	42·0	SW	·08	22	29·952	44·0	34·0	WNW	·01	22	29·575	33·0	28·0	NW	·03
23	29·192	51·0	41·0	W	·00	23	29·934	44·0	38·0	NNE	·08	23	29·720	34·0	24·0	NW	·00
24	29·177	54·0	43·0	SW	·00	24	29·650	41·0	38·0	SSW	·15	24	30·256	30·0	25·0	NW	·18
25	28·969	56·0	43·0	W	·00	25	29·236	43·0	37·0	NW	·25	25	30·080	30·0	25·0	NW	·00
26	29·133	50·0	38·0	NW	·05	26	29·423	42·0	35·0	NW	·03	26	29·450	36·0	25·0	SE	·33
27	29·386	51·0	41·0	NW	·15	27	29·473	48·0	37·0	NE	·92	27	29·400	35·0	34·0	NE	·08
28	29·435	48·0	41·0	NW	·08	28	29·809	44·0	40·0	NE	·12	28	29·500	40·0	32·0	NW	·06
29	29·640	46·0	38·0	WNW	·10	29	29·888	40·0	32·0	NW	·01	29	29·256	44·0	35·0	SW	·00
30	29·532	47·0	33·0	NNW	·00	30	29·700	40·0	32·0	SW	·00	30	29·075	45·0	35·0	SW	·38
31	29·840	45·0	41·0	NNE	·68							31	29·060	49·0	42·0	SW	·02
Mean Height of Barometer in Month, 29·64.						Mean Height of Barometer in Month, 29·74.						Mean Height of Barometer in Month, 29·62.					
Adopted Mean Temperature 52·98.						Adopted Mean Temperature 40·43.						Adopted Mean Temperature 32·76.					
Rainfall, 1·51.						Rainfall, 6·49.						Rainfall, 4·15.					

*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.
Smallpox .....	2	Flock and Chaff Beds ....	6
Typhus Fever .....	59	Mattresses .....	8
Typhoid „ .....	70	Pillows, &c. ....	9
Other „ .....	34	Sheets, &c. ....	
Scarlatina .....	591	Houses Disinfected by the Inspector .....	45
Measles .....	320		
Diphtheria .....	20		
Whooping Cough .....	337		
Croup .....	17		
Diarrhœa .....	207		
Total .....	1657	Total .....	68

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

Particulars of Complaint.	No. of Cases.	How Disposed of.	Penalties Imposed.
			£ s. d.
Depositing Offensive Matter on the Street .....	2	Two Fined 5s. ....	0 10 0
Ash-pits, Privies, Water-closets, Spouts, and Premises in such a state as to be a Nuisance and Injurious to Health .....	48	28 Orders to abate made, 18 cases withdrawn, and 2 fined 5s. each	0 10 0
Exposing Unsound Food for Sale .....	—		
Adulteration of Food ....	2	One fined 20s. and one 2s. 6d. ....	1 2 6
	52		£2 2 6

*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 Act ....	52	20	—	32
Selling and Exposing for Sale Unsound Food Adulteration of Food Act .....	—	—	—	—
Bye-Laws.....	2	2	—	—
	2	2	—	—
Total .....	56	24		32

*TABLE shewing the amount of Bad Meat and other unwholesome Articles of Food seized and destroyed during 1878.*

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 .....	8	1890	No proceedings taken.		—
Pork .....	—	539			
Salt Tongues .....	1	224			
Fish .....	2	(140 lbs.)			
Rabbits.....	1	(7 couple)			
Total .....	14				

*Nuisances reported, and Notices served by Sanitary Inspectors during the Year.*

Number of Nuisances Reported .....	1,902
Nuisance abated without formal Notice .....	98
Nuisances abated after Notice without proceedings .....	1,756
Nuisances abated after proceedings had been taken .....	448
Number of formal Notices given.....	3,576
Complaints made at Office, and attended to by Inspectors	319
Order of Magistrates to abate Nuisances .....	28

*Notices served.*

To Repair Defective House Drains, Roofs, Water-closets, Ash-pits, &c. ....	762
To Whitewash Premises, Cleanse Rooms, Yards, Out-houses, &c. ....	2,475
Defective Spouts.....	320
Close Cellar, Dwellings, and abate overcrowding .....	15
To Abate Smoke Nuisances .....	4
To Cleanse and Disinfect Houses wherein Zymotic Diseases had occurred.....	802
Total .....	4,378

*Ash-pits Cleansed by Corporation.*

Orders taken by Inspectors during inspection, and Private Orders received at the Office .....	8,202	Number of Loads removed during 1878 ....	32,250
Total .....	8,202	Total .. ...	32,250



