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REPORT

ON THE

HEALTH OF SOUTH SHIELDS,

FOR THE YEAR 1879.

BY

JOHN SPEAR,

MEDICAL OFFICER OF HEALTH FOR THE BOROUGH.


[PRESENTED TO THE SANITARY AUTHORITY ON THE
4th DAY OF FEBRUARY, 1880.]



SOUTH SHIELDS :

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REPORT, 1879.

PART I.

SICKNESS AND MORTALITY.

During the fifty-two weeks of the year 1879 the returns of the District Registrars record 2,217 births and 1,214 deaths within the Borough*. The excess of births over deaths is thus 1,003.

Of the deaths 620 were of males and 594 of females.

POPULATION.—The Registrar General estimates the population for the whole South Shields Union to be, in the middle of the year under notice, 114,486; and of this population 60·5 per cent. is supposed to be within the Borough of South Shields. This estimate, however, viz., 69,212, is probably too high, and I have preferred, therefore, to frame the necessary calculations upon other sources of information, principally on the known increase in the number of dwellings occupied, and to estimate the population for the purposes of this report at 62,000; an increase of 1000 (the mere excess of births over deaths) over the estimate of the previous year.

BIRTHS.—The birth-rate, per 1000 of this estimated population of 62,000, is 35·8; or 1·8 below the average rate of the 50 other large English towns of the Registrar General, and 2·4 below the rate of 1878 of South Shields.

DEATHS.—The 1,214 deaths represent a rate of 19·6 per 1000 persons estimated to be living; the lowest death-rate for South Shields on record.

In the annexed table the death-rate per 1000 from all causes in South Shields and in the 50 large English towns during the last 39 years are compared.

	Mean of 20 years 1841-60	Mean of 10 years 1861-70	Mean of 3 years 1871-73	1874.	1875.	1876.	1877.	1878.	1879.
50 large towns	23·5	23·0	23·8	24·5	23·9	22·3	21·6	22·9	21·3
South Shields..	25·0	24·0	27·5	27·4	22·7	20·0	19·9	21·4	19·6

* Including deaths that occurred in the Workhouse, situated without the Borough, amongst persons belonging to South Shields.

SEASONS.—The relative mortality of the four quarters of the year, and the mortality in the corresponding quarters of the preceding year will be found in the subjoined table.

Annual death-rate per 1000, South Shields.

—	Year.	1st Qr.	2nd Qr.	3rd Qr.	4th Qr.
1878	21·4	19·6	20·3	22·3	23·5
1879	19·6	22·4	18·7	17·2	20·0

Monthly Meteorological Table, 1879.

—	Mean Reading of Barometer.	Mean Temperature.	Rainfall in inches.	Prevailing Winds.
January	29·95	31·2	1·4	N.W.
February	29·52	35·4	3·65	N.W.
March	29·74	38·6	1·15	S.W.
April	29·70	39·6	2·60	N.E.
May	29·92	44·6	2·48	N.E.
June	29·65	53·0	3·78	N.W.
July	29·72	54·4	4·27	N.W.
August	29·75	56·1	4·22	S.E.
September	29·81	52·4	0·98	N.W.
October	29·91	44·5	0·90	N.W.
November	29·69	39·3	5·3	S.W.
December	30·15	33·2	0·97	S.W.

LOCALITIES.—Information respecting the mortality of the various Sanitary Districts will be found in the subjoined table, and, in fuller detail, in the Appendix [Tables A & F]. To these tables I would wish, as I have done in former years, to draw a special attention. They become, as the facts they represent accumulate, every year more valuable. Certain districts, it will be found, throughout a series of years, consistently show low rates of mortality, whilst in others the mortality, both from all causes and from certain diseases, is as constantly excessive. Such facts, to those entrusted with the sanitary administration of the district, cannot fail to be of the utmost significance. From what causes do certain districts show a mortality nearly three times greater than others; and how far do these causes admit of removal or mitigation?

SANITARY DISTRICTS: THEIR POPULATION, DENSITY OF POPULATION, ELEVATION OF SITE, BIRTH RATE, AND MORTALITY RATES.

SANITARY DISTRICTS.	SUB-DIVISIONS.	LOCALITY. (For Boundaries of District, see Appendix.)	POPULATION. (Estimated, 1879.)	Density of Population. (Persons to Acre.)	Range above mean Sea Level.	Birth-rate.		DEATH-RATE PER 1000.								INFANT MORTALITY. No. of deaths under 1, to 1000 births registered.	
						Mean of 3 years 1876- 78.	1879.	From all Causes.	Mean of 4 years 1875- 78.	1879.	From Seven Zymotic Diseases.	Mean of 4 years 1875- 78.	1879.	From Phthisis.	Mean of 4 years 1875- 78.	1879.	From In- flamatory Diseases of Lungs.	Mean of 3 years 1876- 78.	1879.
I.	—	BOROUGH.....	62,000	30	6 to 120 ft.	38.8	35.8	21.0	4.4	4.0	1.9	1.3	3.6	4.0	150	113	
I.	{ 1	Between King St. and River...	8,900	68.3	6 to 20 ft.	38.1	37.7	21.8	4.1	3.8	1.8	1.2	3.8	4.6	145	112	
	{ 2	Between Ocean Rd. and River	6,000	86.6	6 to 63 ft.	39.5	38.5	19.8	3.9	5.1	1.8	2.0	3.4	3.8	152	121	
II.	{ 1	From E. King St. and Ocean Rd. to Westoe	12,650	27.0	29 to 105 ft.	33.0	35.4	16.5	2.8	3.6	1.6	1.4	2.7	3.6	130	100	
	{ 2	Westoe Village	540	3.0	80 to 118 ft.	24.0	26.0	9.2	1.4	0.0	0.4	0.0	0.9	1.8	47	125	
III.	{ 1	East Holborn and District ...	4,650	100.9	20 to 44 ft.	35.7	30.2	24.5	4.6	6.3	3.0	1.5	4.4	4.3	190	194	
	{ 2	Mill Dam Valley	2,785	59.7	9 to 35 ft.	36.3	35.0	22.0	4.0	3.6	2.5	1.5	4.1	4.4	138	124	
	{ 3	Green's Estate and District ...	8,900	190.0	30 to 40 ft.	45.2	39.6	22.2	5.3	5.4	1.7	1.2	4.7	4.2	152	138	
IV.	{ 1	West Holborn, Corstorphine } and Temple Towns	4,780	26.8	19 to 42 ft.	39.4	34.0	24.8	6.3	3.9	1.8	1.1	4.3	5.3	188	150	
	{ 2	Eldon St. and District	8,000	58.0	12 to 40 ft.	42.1	38.8	18.6	4.3	2.3	2.1	0.8	3.6	4.0	153	126	
V.	{ 1	Tyne Dock	3,540	23.3	12 to 56 ft.	43.0	30.0	22.3	5.3	2.3	1.7	2.3	3.9	3.0	138	136	
	{ 2	East Jarrow.....	883	3.2	12 to 23 ft.	37.2	29.0	21.9	3.0	0.0	3.2	1.2	4.8	1.2	170	160	

In my annual reports I have been accustomed to signal out certain areas as illustrating in their mortality-rates certain points of interest. For instance, I have shown the great difference in the relative mortality of certain streets in Sanitary District I, such streets being composed of much the same kind of property and inhabited by the same class of persons, but differing in the elevation of their site and the general ventilation of the locality; *i.e.*, situated little above high water level, and with a comparatively stagnant atmosphere, on the one hand, and on the other, on high banks swept by the sea breezes. I propose to continue this investigation.

DISTRICT No. I. — SUB-DIVISION 1. (Parts of)*	Estimated Population.	Average Elevation of Site above High Water Mark.	Death-rate per 1000 from all causes.		Death- rates per 1000 from principal Zymotic Diseases.		Mean of 5 years. Rate per 1000 of population per annum, 1875-79.		
			Mean of 4 years 1875-78.	1879.	Mean of 4 years 1875-78.	1879.	From Consumption.	From Inflammatory Diseases of Lungs.	†Scrofulous Diseases and Convulsions.
Long Row, Shadwell } St., and Wapping St. }	1118	FT. 10	33·6	27·0	7·0	4·6	2·5	6·1	6·9
Wellington St., Pala- tine St., Heugh St., Military Rd., Heron St., and Mitre St. ... }									
	2278	60	22·0	16·3	4·2	1·5	1·0	4·2	4·1

* The main streets only are taken; courts and alleys being more difficult to compare, are not included.

† *i.e.*, Tubercular diseases, inanition, and convulsions of children.

I likewise referred to the marked improvement that, to judge from the mortality returns, had taken place in the sanitary condition of Winchester street; such improvement dating from the completion of certain works of drainage in that street, by which ground water, which before collected in large quantities, was drawn from the foundations of the houses. In the annexed table these observations are continued.

—	Population.	Mean of 6 years, 1870-75.		Mean of 4 years, 1876-79.	
		Annual Death- rate.	Zymotic Rate.	Death- rate.	Zymotic Rate.
Winchester Street.....	383	21·1	3·2	12·7	1·2

AGES.—The 1214 deaths from all causes, and at all ages, include 293 of infants under one year of age, or 23·3 per cent. of the total number of deaths; 587, or 48 per cent., of children below the age of 5 years; 437, or 36 per

cent., of children and adults from 5 to 60 ; and 190, or 16 per cent., of elderly persons aged 60 and upwards.

Infant mortality, measured by the proportion of deaths under one and births registered, was equal to 132 per 1000, against 160, the corresponding average rate of the last five years. In the infant mortality of the district there appears to be a continuous decline.

ZYMOTIC DISEASES.—The annexed table gives the number of deaths from each of the seven principal zymotic diseases ; the distribution of such deaths over the four quarters of the year ; and the relative mortality of this and the four preceding years.

ZYMOTIC DISEASES.	Deaths during Year 1879.	Death-rate per 1000 per Annum.		Number of Deaths, 1879.			
		Mean of 4 years, 1875-78.	1879.	1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.
Total deaths from 7 principal zymotic diseases	247	4.2	4.0	74	44	61	68
1. Small-pox .....	...	0.01	...	...	...	...	...
2. Measles	19	0.20	0.30	...	2	6	11
3. Scarlet Fever	129	1.17	2.10	59	23	23	24
4. Diphtheria	6	0.15	0.10	1	...	2	3
5. Whooping-cough ...	41	1.00	0.60	8	8	10	15
6. Fever. { "Typhus".....	2	0.12	0.03	...	1	...	1
{ Enteric (Typhoid)	10	0.35	0.16	...	3	3	4
{ Simple continued.	7	0.28	0.13	3	3	...	1
7. Diarrhœa.....	33	1.30	0.53	3	4	17	9

In the following table the mortality from the seven zymotic diseases in recent years in South Shields and the fifty large English towns is compared.

	1872.	1873.	1874.	1875.	1876.	1877.	1878.	1879.
50 large English towns.	5.0	3.5	4.4	3.5	3.3	3.1	3.8	2.9
South Shields	7.2	5.2	5.5	4.2	3.0	3.6	5.8	4.0

As in the previous year, scarlet fever was by far the most fatal of these diseases ; the deaths from that cause accounting for 50 per cent. of the total zymotic mortality. The disease, never entirely absent, has been epidemic in the district for now more than two years. At present there are evidences of its decline.

The death-rate from the continued fevers—typhus, typhoid, and simple continued fever—shows still a steady and continuous decline, as will be seen from the figures in the subjoined table. Last year the fever-rate was for South Shields the lowest on record ; this year the decline is still more marked.

Fever-rate per 1000.

	1874.	1875.	1876.	1877.	1878.	1879.
South Shields	1.13	0.82	0.51	0.76	0.50	0.30
England	0.59	0.55	0.45	0.41	0.40	0.30

Of the 33 deaths from diarrhœa 17 occurred in the third or summer quarter; the corresponding annual rate being 1.1 per 1000, against 4.5 the mean of the preceding eight years in South Shields; 0.9 the average of the 50 large English towns during the year under report; and 0.36 the summer diarrhœa rate in the rural districts.

The following table shows the weekly record of deaths from diarrhœa in the third quarter, and the various concurrent meteorological conditions.

Diarrhœa in dates of death, South Shields.

DATE. — 1879, Week ending	No. of Deaths.	Mean reading of Barometer.	Mean Tempera- ture.	Rainfall in inches.	Prevailing Winds.	
July	5...	1	29.60	53.8	0.70	W.
„	12...	3	29.86	54.8	0.50	N.W.
„	19...	3	29.85	53.4	1.02	N.E.
„	26...	1	29.65	53.8	2.05	N.W.
August ...	2...	2	29.85	59.0	0.51	N.W.
„ ...	9...	1	29.75	53.2	0.70	S.E.
„ ...	16...	1	29.86	57.5	1.25	S.E.
„ ...	23...	0	29.74	55.0	0.91	S.E.
„ ...	30...	1	29.70	54.5	0.85	S.E.
September	6...	1	30.0	54.4	0.40	S.W.
„	13...	1	29.70	52.6	0.25	N.W.
„	20...	0	29.95	52.6	0.06	N.W.
„	27...	2	29.85	49.5	0.27	S.E.

In the annexed table the meteorology of the 3rd quarters of the last five years, in which so great a diversity in the mortality from diarrhœa was experienced, is compared.

3rd Quarter.	Diarrhœa No. of Deaths.	Mean Reading of Barometer	Mean Tempera- ture of Air.	Rain- fall.	Estimated Strength of	WIND.			
						Relative proportion of			
						N.	E.	S.	W.
1875	47	29.89	56.1	11.3	1.5	30	20	11	31
1876	75*	29.79	55.9	6.37	1.3	25	16	16	35
1877	31	29.80	54.0	9.36	1.5	23	15	16	38
1878	61	29.85	57.5	5.22	1.3	20	17	19	36
1879	17	29.76	54.2	9.47	1.6	27	22	13	30

* The excess was confined to the month of July, when the temperature averaged 60.07,

A low diarrhoea mortality was in the last year common to the whole of England. It was, as it usually is, coincident with low temperatures and a heavy average rainfall; conditions which, the one by retarding putrefactive changes in refuse matters, the other by washing the air, produce a purer if less genial atmosphere. It would be more agreeable to attribute this lessened mortality to other permanent and controllable agencies of increased purity of atmosphere, such as frequent and complete scavenging and cleansing operations; and reference to the above table, which shows that the proportional decline in the fatality of this disease in cool summers is becoming more and more marked, would suggest a hope that such agencies are indeed exerting an effect.

TUBERCULAR DISEASES.—From this class of diseases 175 deaths were registered, phthisis or consumption accounting for nearly half that number. The mortality rate was equal to 2·9 per 1000; or about the same as the average rate of the disease in England, and 1·0 below the average rate for the last four years in South Shields.

INFLAMMATORY DISEASES OF THE LUNGS, including bronchitis, pneumonia, and pleurisy, accounted for 249 deaths, being equal to a rate of 4·0 per 1000. The corresponding rate of the last four years has averaged 3·65; in England it is 3·3.

HEART DISEASE.—Fifty-nine deaths were so returned. The equivalent annual rate per 1000 being 1·0, 0·2 below the average rate of the last four years.

WASTING DISEASES OF CHILDHOOD.—The deaths from atrophy and debility represent a rate of 1·3 per 1000. The corresponding average rate in the four preceding years was 1·5. In England the average rate is 1·2.

PART II.

ACTION TAKEN TO PREVENT THE SPREAD OF DISEASE.

SMALL-POX.—One person suffering from small-pox landed from a ship in the harbour, and was discovered the same morning by the Sanitary Inspector. He was promptly removed to the hospital of the Port Sanitary Authority.

SCARLET FEVER.—This disease, as already stated, has been epidemic in the District for now more than two years. In my report for 1877 I gave details of its outbreak, and of the measures taken to prevent its spread—imperfect and inadequate as such measures, in the absence of proper hospital accommodation for the isolation of sufferers, or of the necessary statutory provisions for the enforcement of such isolation at their own houses, of necessity were. The same measures have, however, been assiduously pursued. Some 400 cases have come to the knowledge of the Department, and have received attention. Disinfectants have been supplied free of cost, their use being always instituted under my own or the Inspector's supervision. 100 statutory notices to disinfect have been issued, and many houses have been disinfected by the Inspector. It may be remembered that at the time of the first outbreak the influence of the public day schools in the dissemination of the fever poison was very apparent; and similar experience has still to be recorded. On different occasions children have been found attending school from infected houses, and local outbreaks of the disease have clearly been traceable at times to such occurrences. The congregation of neighbours in fever stricken houses, for purposes of sympathy or gossip, is likewise a most fertile source of mischief. To deal effectually with such an outbreak as that from which we have suffered and are suffering, suitable hospital accommodation for the removal of the afflicted from tenemented houses is required, and also a system of compulsory registration of infectious diseases, with increased statutory powers to prevent the exposure of reckless and ignorant persons, themselves and their children, to the dangers of infection.*

* To illustrate the impracticability of satisfactory isolation of infectious cases in tenemented dwellings I may mention that on four separate occasions during the year under report I have found scarlet fever spreading clearly from families occupying the lower to those occupying the upper rooms of a tenemented dwelling, notwithstanding that there has been no personal intercourse between the families. Any odor, I am told, generated in the lower rooms of many such houses, such as the odor of cooking or of carbolic acid, finds its way unavoidably to those above. And infection spreads presumably through the same channels.

TYPHOID FEVER AND DIPHThERIA.—Cases of these diseases, of which some 54 of the former and 19 of the latter have occurred (always in isolated outbreaks), have received my prompt personal attention; and the houses in which they have appeared have been subjected to thorough sanitary inspection; a course of action which has resulted usually in the discovery and removal of drainage and other defects.* Twenty-five cases of typhoid fever, mostly of tramps or sailors, found in common lodging houses, have been removed to the wooden hospital.

TYPHUS FEVER.—Five cases of typhus have occurred, the source of infection being traced on each occasion to the neighbouring borough of Jarrow, where the disease has prevailed. Three of the cases were removed to the wooden hospital, and the disease has not spread.

* An interesting instance has just occurred. In a certain house, occupied by two tenants, there had been, within the last twenty months, three separate outbreaks of diphtheria (all of them fatal), one of scarlet fever, and two of erysipelas. An examination had previously been made, but no defect had been discovered, but a day or two ago a further inspection was instituted. It was found that the rain-water pipes from the roof at the front of the building ran through the house, quite out of sight, to a rain-water tank in the back yard, and this tank had an overflow pipe communicating directly with the sewer. Sewer gas could thus, it was proved by actual experiment with sulphuretted hydrogen gas, reach every room in the house.

PART III.

SANITARY WORK

AND PROCEEDINGS OF THE MEDICAL OFFICER OF HEALTH
UNDER ARTICLES 1-10, SECTION IV, OF THE LOCAL GOVERN-
MENT BOARD'S ORDER OF NOVEMBER, 1872.

SECTION I.

INSPECTIONS AND THE ABATEMENT OF NUISANCES
INJURIOUS TO HEALTH.

The sanitary condition of each of the 5 districts and 11 sub-divisions into which the town, for the purposes of sanitary administration, has been divided was described in detail in my report for 1876. In the reports for the following years, I gave tabular statements of the improvements effected and nuisances abated under statutory notice in each of the districts, hoping that, by this information, together with the mortality statistics of the several localities, a more or less clear and connected record of the sanitary circumstances and requirements of each of such localities would be afforded. This record is continued. Inspections, in many parts house to house inspections, have been systematically carried out; and it will be seen that there has been considerable activity in the abatement of nuisances of certain descriptions; especially in the removal of middensteads of the worst kind from the most crowded localities, and the substitution for them of small, water-tight, but fixed, privy-receptacles, that are scavenged at least weekly. In my last report I had to complain that such alterations were not always effected in a satisfactory manner, that landlords instead of adhering to the regulations and specifications laid down, had the work done in their own peculiar manner, and that consequently the mode of re-construction and the material used in the operation were often unsatisfactory, and the workmanship generally bad. In this matter during the last year there appears to have been some improvement. In previous reports I have explained that the only form of closet accommodation that is admissible in much of the property of this district—in large

tenemented properties, for instance, having little or no yard space, and in properties situated in courts, and lanes, on banks, &c.—is the trough water-closet; and I have still to express regret that the action of the Water Company, in charging what the Authorities justly regard as an altogether exorbitant price for the use of water in connection with such conveniences, practically precludes, as it has now for two years done, their introduction; and, consequently, the carrying out of one of the most necessary sanitary improvements in this town.

The following is a statement of the nuisances, requiring the execution of structural works, or the permanent closure of dwellings, for their abatement, for which statutory notices were issued during the year: such nuisances being classified according to the sanitary districts in which they were found to exist.

NUISANCE.	TOTAL. BOROUGH.		DISTRICT I. North of King Street and Ocean Road.	DISTRICT II. South of Ocean Road.	DISTRICT III. Mill Dam Valley, Green's Estate, East Holborn.	DISTRICT IV. West Holborn, Corstor- phine & Temple Towns.	DISTRICT V. Tyne Dock and East Jarrow.
	1879	1877- 78					
Houses unfit for habitation ...	29	261	27	...	...	2	...
Dilapidated and ill-constructed houses and premises ...	65	90	9	20	19	15	2
Privy-middens, so situated as to be a nuisance; and requiring for the abatement of the nuisance the removal of the midden, and the provision either of water closets (generally the Liverpool trough) or dry privy receptacles	109	367	4	9	23	7	66
Want of closet accommodation (notices requiring the provision of trough water-closets)	4	65	1	1	2	...	...
Want of proper means of drainage of houses or land ...	10	26	1	3	4	...	2
Want of ventilation in dwellings	13	94	3	8	21	...	...
Defective slaughter-houses ...	1	17	...	1	...	...	...
Unpaved private yards or passages	14	23	11	...	2	...	1
Cellar dwellings	1	3	...	1	...	...	...

Besides these nuisances, abated by private individuals, many public courts and lanes have been paved and channelled, and other similar work carried out by the public authority.

The following is a list of nuisances, similarly classified, for which statutory notices were also served, but for the abatement of which structural works were not required.

NUISANCE.	TOTAL— BOROUGH.		DISTRICT I.	DISTRICT II.	DISTRICT III.	DISTRICT IV.	DISTRICT V.
	1879.	1877- 78.					
Defective drains, privies, and water-closets	322	763	105	27	149	15	26
Houses, rooms, and passages so filthy as to be a nuisance	626	620	147	26	269	91	74
Nuisances arising through absence of water supply for domestic services	88	112	36	7	38	1	6
Overcrowding	9	18	2	2	4	1	...
Offensive accumulation of refuse	375	725	49	62	192	46	26
Animals kept so as to be a nuisance	18	55	...	1	9	1	7
Water in ashpits	70	109	8	20	19	15	8
Verbal notices for cleansing rooms, removing refuse therefrom, &c.	1471	2443	...	...	...	...	...

2000 hand-bills (not statutory notices), advising occupiers to whitewash and cleanse their premises, and relating to various other sanitary requirements, were issued.

SECTION II.

ADVICE TO SANITARY AUTHORITY.

(UNDER THE LOCAL GOVERNMENT BOARD'S ORDER, SECTION IV.,
ARTICLES 4 AND 5.)

NUISANCES.—Nuisances requiring for their abatement structural alterations, are now, after my report is made thereon, referred to a sub-sanitary committee, which usually visits the spot complained of, and issues orders for the necessary notices to be served, or otherwise. The list of nuisances so dealt with is seen in the first of the foregoing tables.

HOSPITAL ACCOMMODATION.—No further step has been taken towards the building of the new infectious diseases hospital, the plans of which last year were approved by the Local Government Board. The wooden hospital-shed has been closed; and a brick building, capable of accommodating sixteen patients, and formerly used by the Poor Law Guardians as an hospital to the old and now vacated workhouse, has been rented temporarily.

PAVING OF STREETS AND LANES.—Ten streets and sixteen back lanes have been paved and channelled.

SANITARY REQUIREMENTS OF NEW BUILDINGS: VENTILATION, &c.—I have reason to believe that greater attention is paid to such requirements than heretofore.

VENTILATION OF SEWERS: PRIVATE DRAINAGE.—The Surveyor reports that during the year 35 ventilators have been applied over the sewers of the district. The regulations adopted by the Authority in 1876, with regard to the construction of house drainage, are being gradually applied; and always with satisfaction and success. The drainage of 68 buildings has during the past year been re-constructed according to this new system.

SECTION III.

DEPARTMENTAL WORK.

PROCEEDINGS UNDER ARTICLES 6-10, SECTION IV., LOCAL GOVERNMENT
BOARD'S ORDER.

1.—The action taken on receiving information of the outbreak of epidemic disease (Article 6) has been recorded (page 12).

2.—NUISANCES AND OVERCROWDING (Article 7).—The work done under this Article, and the action taken in respect of nuisances before the Justices, will be seen in pages 14, 15, and 16 of the Report, and in appendix D, tables 1 and 4.

3.—FOOD SUPPLY (Article 8).—A record of the amount and nature of the food that has been destroyed as unfit for human consumption will be seen in appendix D, table 3; and also the proceedings that have been taken under the "Food and Drugs Act," in table 4.

4.—PROCEEDINGS UNDER BYE-LAWS OF SANITARY AUTHORITY (Article 9), AND UNDER STATUTORY PROVISIONS AFFECTING TRADES.—*Lodging Houses.*—There are 69 common lodging houses, 10 having been placed on the register during the year, and 9 removed therefrom. These are kept on the whole in a satisfactory condition, and no legal proceedings for breach of bye-laws have been taken. Improvements have been carried out in respect of structural accommodation in 10 of such houses. Eight cases of infectious disease, usually occurring in the persons of tramps or sailors, have been removed from lodging houses to the fever hospital. One serious outbreak of scarlet fever, in a large common lodging house, necessitated the temporary closing of the house, since there was not adequate accommodation at the fever hospital for the sufferers. Fifteen cases of suspected infectious disease in common lodging houses were reported at the Health Office.

Slaughter Houses and Bake Houses.—These have been kept under supervision, and the regulations in respect of removal of refuse, cleansing, white-washing, &c., have been observed.

Chemical Works.—Occasional complaints have been made of the escape of noxious gases from these works; and the matter has been under the notice of the Government Inspector. Complaints also continue to be made from time to time, from districts in which soda waste has in past times been deposited, of the escape from the sewers of such districts, into which the drainage of this deposit flows, of sulphuretted hydrogen gas. In certain cases this nuisance has been more or less completely remedied; in others, as for instance at Tyne Dock, in spite of the free ventilation of the sewers, it continues.

5.—DAIRIES, COW SHEDS, AND MILK SHOPS.—Under the Dairies, Cow Sheds, and Milk Shops Order of July, 1879, bye-laws have been made by the Authority as follows:—

- “1. That any room used for the storage or sale of milk shall not be occupied as a living or bed room.
- “2. That the milk vessels, tables, benches, and all other utensils and furniture shall be washed and thoroughly cleansed and kept clean; and that there shall be no shelves for the storage of other matters or things in the room above the milk vessels.

- “3. That the floor of every room used for the storage or sale of milk shall be washed and cleansed every day before nine o'clock in the morning, and that the walls and ceiling shall be limewashed twice every year, that is to say, in March and October ; but, if the walls are painted, then they shall be washed and thoroughly cleansed twice every year, in March and October, and on any special occasion when ordered by the Local Authority.
- “4. That the words “ Registered for the Sale of Milk ” be painted over the outside or entrance door of every room or place used for the sale of milk.
- “5. All premises used for the sale of milk shall be open at all times to the inspection and examination of the officers appointed by the Local Authority for the purpose.
- “6. The floors of all Cow Sheds must be of brick, stone, cement, or other non-absorbent material, and sewerred.
- “7. There shall be a superficial space for each cow of not less than $3\frac{1}{2}$ feet by 7 feet, but, if two cows are kept together, then the space may be 6 feet by 7 feet. The passage of the Cow Shed shall, for each cow, be of the width of 3 feet, but if the cows are arranged as in a double Cow Shed, then the partition passage may be 4 feet wide.
- “8. The floors of all Cow Sheds must be cleansed daily.
- “9. The manure heap of the Cow Shed must be kept in a “sewerred middenstead,” or middenstead with a tank, and removed once during every fortnight.

“Any person doing anything in contravention of the Order of Council, or of these regulations, will be liable to a penalty of not exceeding twenty pounds.”

The owners of 147 dairies, cow sheds, and milk shops have applied for registration under the above-mentioned Order. Since its application to the district considerable structural works of improvement have been carried out in the case of five dairy farms. The occupation as bed rooms of rooms used for the storage or sale of milk, has been stopped in five instances. Much work, however, remains to be done to bring all such places into strict conformity with the provisions of the Order, and of the bye-laws made under it.

APPENDICES.

APPENDIX [A.1.]

DEATHS FROM ALL CAUSES, AT CERTAIN AGES, AND FROM VARIOUS DISEASES, CLASSIFIED ACCORDING TO LOCALITIES.*

DISTRICT No. I.

The District situated between the Market Place, King Street, and Ocean Road, on the South-East, and the River on the North-West.

SUB-DIVISION 1.—That part of the District West of Mile-end Road.

STREETS, COURTS, &c.	Population.	Total Deaths.	AGES		CERTAIN CAUSES.									
			Under 1.	1 and under 5.	Measles.	Scarlatina.	Diphtheria.	Whooping Cough.	Enteric Fever.	Other Fevers.	Diarrhoea.	Other Zymotics.	Phtisis.	Inflammatory Lung Diseases
Albion Street	135	4	1	...	...	...	...	...	...	...	...	...	...	1
Anderson's Lane	90	3	...	1	...	2	...	...	...	...	...	...	...	...
Beadnell's Bank	31	...	...	...	...	...	...	...	...	...	...	...	...	...
Broad Landing	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Cookson's Quay	36	1	1	...	...	...	...	...	...	...	...	...	...	1
Coxon's Court	10	1	1	...	...	...	...	...	...	1	...	...	...	...
Comical Corner	27	1	...	...	...	...	...	...	...	1	...	...	...	...
Deer's Lane	27	2	...	1	...	...	...	...	...	...	...	...	1	1
Dean Street	22	1	...	...	...	...	...	...	...	...	...	...	1	...
Dock Lane	18	...	...	...	...	...	...	...	...	...	...	...	...	...
Dairy Lane	45	1	...	...	...	...	...	...	...	...	...	...	...	...
Dean Lane .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dog Leap Stairs .....	...	1	1	...	...	...	...	...	...	...	...	...	...	...
Fairles' Stairs	40	1	...	1	...	...	...	...	...	1	...	...	...	...
Ferry Court.....	50	...	...	...	...	...	...	...	...	...	...	...	...	...
Ferry Street.....	90	2	1	...	...	...	...	...	...	...	...	...	...	...
Foster Street	104	...	...	...	...	...	...	...	...	...	...	...	...	...
Heron Street	589	9	2	2	...	...	...	...	...	...	...	...	1	2
Hough Street	371	11	4	4	...	1	...	1	...	1	...	...	...	2
Harding's Bank	112	5	2	1	...	1	...	...	...	...	...	...	...	2
Hancock's Square	49	1	...	1	...	...	...	...	...	...	...	...	...	...
Hancock's Lane	49	...	...	...	...	...	...	...	...	...	...	...	...	...
Half-moon Quay	18	...	...	...	...	...	...	...	...	...	...	...	...	...
King Street	90	4	1	2	...	2	...	...	...	...	...	2	...	1
Kirton's Quay	122	4	...	1	...	...	...	...	...	...	...	...	1	1
Long Row	148	2	2	...	...	...	...	...	...	1	...	...	...	2
Carried forward.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* See also table, page

† These include tubercular and wasting diseases of children, and convulsions.

DISTRICT No. I.—SUB-DIVISION 1.—(Continued.)

STREETS, COURTS, &c.	Population.	Total Deaths.	AGES		CERTAIN CAUSES.												
			Under 1.	1 and under 5.	Measles.	Scarlatina.	Diphtheria.	Whooping Cough.	Enteric Fever.	Other Fevers.	Diarrhoea.	Other Zymotics.	Phthisis.	Inflammatory Lung Diseases			
Brought forward .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lady's Walk	27	2	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...
Long Bank	112	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Mill Street	264	3	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mile-end Road.....	343	6	4	...	...	...	...	1	...	...	...	...	...	11	2	...	...
Mitre Street.....	204	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Market Place	163	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mason Lane.....	52	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
North Street	234	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
North Lane	90	2	1	1	...	...	...	1	...	...	...	...	...	...	...	...	...
Palatine Street.	184	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Philip's Court	72	4	...	3	...	4	...	...	...	...	...	...	...	...	...	...	...
Price Street	111	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Queen Street	297	7	1	1	...	...	...	...	...	...	...	...	...	...	3	3	...
Soulsby's Court	30	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Salem Street.....	94	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Spring Lane.....	90	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Stob Lane	104	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...	2
Studley Stairs	63	3	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...
Shotton's Stairs	31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Society Stairs	45	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Saltwell Lane	9	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tyne Street	139	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Thrift Street	216	8	2	2	...	...	1	...	1	...	...	...	...	...	...	...	4
Trobe's Bank	27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Thames Lane	81	5	1	1	...	1	...	...	...	...	...	...	...	...	...	1	...
Thames Court	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Thames Street .....	...	15	4	6	...	...	...	3	1	...	...	...	...	1	5	...	...
Union Alley.....	72	8	2	2	...	1	...	1	...	1	1	...	...	...	3	...	...
Wellington Street	585	8	1	...	...	...	...	...	...	...	...	...	...	...	1	11	...
Walker's Buildings.....	68	1	...	1	...	...	...	1	...	...	...	...	...	1	...	...	...
Wapping Street	565	15	2	6	...	1	...	...	...	1	...	...	...	...	...	...	7
Wellington Place.....	40	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wilson's Dock.....	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals .....	...	163	38	43	2	12	1	9	2	3	5	...	10	41	...	...	...

APPENDIX [A.2.]

DISTRICT No. I. SUB-DIVISION 2.—East of Mile-end Road.

STREETS, COURTS, &c.	Population.	Total Deaths.	AGES		CERTAIN CAUSES.										
			Under 1.	1 and under 5.	Measles.	Scarlatina.	Diphtheria.	Whooping Cough.	Enteric Fever.	Other Fevers.	Diarrhoea.	Other Zymoties.	Phthisis.	Inflam. Lung Diseases	
Alderson Street	265	7	1	2	...	...	...	2	...	...	...	...	...	2	...
Bath Street	210	6	3	...	...	1	...	...	...	...	...	...	...	...	2
Blumer's Terrace	193	5	...	2	...	1	...	...	...	...	...	...	...	1	1
Byron's Lane	27	2	1	...	...	...	...	1	...	...	...	...	...	...	...
Balcony Lane and Court	40	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Baring Street	205	5	1	...	...	...	...	...	1	...	...	...	1	...	1
Cleveland Street	386	8	2	2	...	3	...	...	...	...	...	1	...	...	...
Coble Landing	45	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Custom-house Quay	63	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Davison's Lane	45	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Edith Street	450	8	1	3	...	4	...	...	...	...	...	1	1	...	...
Green's Terrace	152	1	...	1	...	...	...	...	...	...	...	...	...	...	...
Green's Place	100	3	1	...	...	1	...	...	...	...	...	...	...	...	...
Grubb's Buildings	59	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hedley Street	340	18	8	6	...	2	1	1	...	...	1	1	2	2	...
Henry Street	73	3	1	...	...	...	...	...	...	...	...	...	1	1	...
Heugh Terrace	54	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Heugh Court	14	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hospital Quay	76	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ingham Street	144	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lawe Cottages	116	3	...	1	...	2	...	...	...	...	1	...	...	...	...
Lawe Buildings	63	2	1	...	...	...	...	...	...	...	...	...	...	1	...
Lawson's Bank	57	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lawson's Lane .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Livingstone Street	452	14	1	5	1	1	...	1	...	1	...	...	...	4	...
Morton Street	254	5	3	...	...	...	...	...	...	...	...	...	1	1	...
Military Road	337	5	...	...	...	...	...	...	...	...	...	...	...	1	...
Ocean Road	54	2	1	...	...	...	...	...	...	...	...	...	...	1	...
Ocean Terrace	32	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pilot Stairs	45	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pilot Street	18	3	1	...	...	...	...	...	...	...	...	...	...	...	...
Pearson Street	31	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rose Lane	22	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rudd's Bank .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Salmon Street	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Salmon's Field .....	...	2	...	1	...	...	...	...	...	...	...	...	1	1	...
Stanhope Street	180	5	1	...	...	1	...	2	...	...	...	...	...	2	...
Stephen Street	45	1	...	...	...	...	...	...	...	...	...	...	...	1	...
Shadwell Street	516	12	1	3	...	...	...	1	...	1	...	...	3	2	...
Salmon's Quay	18	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Workhouse .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals .....	...	121	29	27	1	16	1	6	2	2	2	4	12	22	...

DISTRICT No. II. SUB-DIVISION 1.—(Continued.)

STREETS, COURTS, &c.	Population.	Total Deaths.	AGES		CERTAIN CAUSES.												
			Under 1.	1 and under 5.	Measles.	Scarlatina.	Diphtheria.	Whooping Cough.	Enteric Fever.	Other Fevers.	Diarrhoea.	Other Zymotics.	Phthisis.	Inflam. Lung Dis.			
Brought forward .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Milton Street	120	4	2	...	...	...	...	...	...	...	...	...	...	...	1	2	...
Ogle Terrace	64	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pier Terrace	180	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Percy Street.....	635	8	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Ravensbourne Terrace	112	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Romilly Street.....	30	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Stevenson Street	154	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Seafield Terrace	99	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Somerset Street	206	9	6	2	...	...	...	...	...	...	...	...	...	...	1	3	...
Salisbury Place	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Saville Street	185	11	3	2	2	...	...	...	...	...	1	1	...	...	...	...	1
Sunny Terrace.....	27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Shortridge Street.....	220	4	1	1	...	...	...	...	...	...	1	...	...	...	...	...	1
Sea View Terrace	60	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Thomas Street.....	113	4	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Victoria Terrace	138	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Victoria Place	135	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Winchester Street	382	6	1	...	...	...	1	...	...	...	...	...	...	...	1	1	...
William Street.....	130	4	1	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Winterbottom Street .....	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Woodbine Street	337	5	1	1	1	1	1	...	...	...	...	...	...	...	1	1	...
Wellington Terrace.....	2	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Westoe Lane	52	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Wouldhave Street .....	...	5	1	3	2	...	...	...	...	...	1	...	...	...	...	...	1
Wawn Street	142	4	2	1	...	...	...	...	...	...	...	...	...	...	...	...	1
Totals .....	...	203	45	43	..	24	3	7	1	...	6	3	16	46	...	...	...

APPENDIX [A.4.]

DISTRICT No. II. SUB-DIVISION 2.—Westoe Village.

STREETS, COURTS, &c.	Population.	Total Deaths.	AGES		CERTAIN CAUSES.												
			Under 1.	1 and under 5.	Measles.	Scarlatina.	Diphtheria.	Whooping Cough.	Enteric Fever.	Other Fevers.	Diarrhoea.	Other Zymotics.	Phthisis.	Inflam. Lung Dis.			
Westoe	403	4	2	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Wood's Terrace	36	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Westoe Crescent	38	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Totals .....	...	6	2	...	...	...	...	...	...	...	...	1	...	...	...	...	1

APPENDIX [A.5.]

DISTRICT No. III.

The District situated between King Street on the N.E., Laygate Street and Laygate Lane on the S.W., the River on the N.W., and the Stanhope and Tyne Railway on the S.E.

SUB-DIVISION 1.—That part of the District to the West of the Passenger Line.

STREETS, COURTS, &c.	Population.	Total Deaths.	AGES		CERTAIN CAUSES.										
			Under 1.	1 and under 5.	Measles.	Scarlatina.	Diphtheria.	Whooping Cough.	Enteric Fever.	Other Fevers.	Diarrhoea.	Other Zymotics.	Phthisis.	Inflammatory Lung Diseases	
Academy Hill	470	9	2	1	4
Addison Street.....	84	2	1
Bottle Bank and Court	90	3	1	1	...	2
Brewery Lane
Commercial Road	1115	17	2	4	...	...	...	1	...	...	...	1	...	...
Cowan's Place	77	2	1	2
Carpenter's Hill	22	2	...	1	1
Cone Street	184	5	...	1	...	...	...	1	...	...	...	...	1	...
Chapel Hill, Johnson's Hill
Dockwray's Bank	67	3	...	1	...	1
East Holborn	414	14	3	5	...	4	...	...	...	...	...	...	2	3
Forrest's Hill	18	4	2	1	...	1	...	...	...	...	...	...	...	2
Hill Street	226	6	1	2	1	1	...	...	...	1	...	...	1	...
Henderson's Lane	30	2	...	1
Harrison's Court.....	78	2	...	1	...	...	...	...	...	...	...	1	1	...
Johnson's Hill.....	170	9	3	2	...	1	...	...	...	...	...	2	1	...
Laygate Hill .....	...	3	1	1	...	...	...	...	...	...	...	...	1	...
Laygate Court.....
Laygate Street.....	365	12	4	3	...	4	...	...	...	...	...	...	...	3
Mill Dam .....	...	1	...	1	...	...	...	...	...	...	...	...	1	...
Nile Street	112	3	1	...	...	...	...	...	...	...	...	...	...	...
Nelson's Bank	47	2	..	1	...	...	...	...	...	...	...	...	...	...
Pleasant Place.....	45	6	1	4	1	3	...	...	...	2	...	...	...	...
Pratt's Bank	72	1	...	...	...	...	...	...	...	...	...	...	...	...
Paine's Lane ..	45	...	...	...	...	...	...	...	...	...	...	...	...	...
Pleasant Cottage	9	...	...	...	...	...	...	...	...	...	...	...	...	...
Roper's Court	18	1	...	...	...	...	...	...	...	...	...	1	...	...
Swan Hill.....	124	2	1	...	...	...	...	...	...	...	...	...	1	...
Todd's court	85	4	2	1	...	1	...	...	...	1	...	...	...	...
Tiney Street.....	50	2	..	1	1	...	...	...	...	...	...	...	...	...
Wawn's Court ...	68	1	...	1	...	1	...	...	...	...	...	...	...	...
Willow Cottages	40	...	...	...	...	...	...	...	...	...	...	...	...	...
West Dock	9	2	1	...	...	...	...	...	...	...	...	...	...	...
Totals .....	...	120	27	33	4	19	...	1	1	...	4	1	7	20

APPENDIX [A.6.]

DISTRICT III.

SUB-DIVISION 2.—That part of the District East of the Passenger Line, and North-East of Claypath Lane.

STREETS, COURTS, &c.	Population.	Total Deaths.	AGES		CERTAIN CAUSES.												
			Under 1.	1 and under 5.	Measles.	Scarlatina.	Diphtheria.	Whooping Cough.	Enteric Fever.	Other Fevers.	Diarrhoea.	Other Zymotics.	Phthisis.	Inflammatory Lung Diseases			
Barrington Lane .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Barrington Street	216	4	2	1	1	...	...	...	...	...	...	...	...	...	...	...	1
Chapter Row	86	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Church Row	9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Coronation Street	265	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Cornwallis Street.....	157	3	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1
Dove Court	27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
East Street	54	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fairbairn's Court.....	58	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Hilda Pit Yard	54	3	...	2	...	1	...	...	...	...	...	1	...	...	...	...	...
Hepple's Court	118	2	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
Kepple Street (West).....	81	4	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...
Kepple Court	118	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mount Terrace	90	3	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
Nelson Street	67	5	1	2	...	...	...	...	...	...	...	...	...	...	...	1	2
Oliver's Court	27	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Oliver Street	76	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Oyston Street	80	5	1	1	...	...	...	...	...	...	...	...	...	...	...	...	1
Oyston Court .....	...	1	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...
Park Street	108	6	1	2	...	...	...	...	...	...	...	...	...	...	...	...	3
Russell Street	18	1	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...
Readhead's Court.....	50	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Railton's Court	90	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Smithy Street	234	7	...	2	...	2	...	...	...	1	...	...	1	...	...	...	...
Waterloo Vale	294	4	2	...	...	...	1	...	...	...	...	...	1	...	...	...	...
Wallis Street	140	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Waterloo Lane.....	99	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
West Street	14	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Totals .....	...	61	10	14	1	6	...	2	...	1	...	1	4	12	...	...	...

[APPENDIX A.7.]

DISTRICT No. III.

SUB-DIVISION 3.—That part of the District East of Passenger Line, and South-West of Claypath Lane.

STREETS, COURTS, &c.	Population.	Total Deaths.	AGES		CERTAIN CAUSES.									
			Under 1.	1 and under 5.	Measles.	Scarlatina.	Diphtheria.	Whooping Cough.	Enteric Fever.	Other Fevers.	Diarrhœa.	Other Zymotics.	Phtisis.	Inflammatory Lung Diseases
Adelaide Street	982	24	4	6	...	1	...	1	...	...	2	...	3	5
Bedford Street	193	7	2	2	...	...	...	1	...	...	...	...	...	2
Brunswick Street	718	13	1	3	...	1	...	...	...	...	...	1	1	2
Brunswick Gardens	13	1	...	1	...	...	...	...	...	...	...	...	...	...
Cambridge Street	580	17	4	3	...	3	...	1	...	...	...	...	...	1
Claypath Lane... ..	126	4	2	1	...	3	...	...	...	1	...	...	...	1
Cuthbert Street	446	6	2	1	...	...	...	...	...	...	...	...	1	1
Cotton's Court .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Derby Street	315	5	1	1	...	1	...	...	...	...	...	...	...	1
Dixon Street	117	...	...	...	...	...	...	...	...	...	...	...	...	...
Edward Street	279	7	3	3	1	2	...	...	...	...	...	...	...	2
Green Street	300	4	...	3	...	...	2	...	...	...	1	...	...	1
George Street	238	9	5	3	...	...	1	1	...	...	...	...	...	2
Hardwick Street	148	8	...	4	...	3	...	...	...	...	...	...	1	1
Laygate Terrace	81	2	1	1	...	...	...	...	...	...	...	...	...	1
Lawson Street	27	3	...	2	...	...	...	...	...	...	...	...	...	...
Maxwell Street ..	1350	39	16	8	...	6	...	2	1	...	...	...	1	7
Martin Street ...	144	3	...	1	...	...	...	...	...	...	...	...	1	...
Orange Street	342	4	1	1	...	...	...	...	...	...	...	...	...	1
Orange Place	72	...	...	1	...	...	...	...	...	...	...	...	1	...
Princes Street	234	8	2	5	...	2	...	...	...	...	...	...	1	3
Peel Street	222	8	5	2	...	2	...	1	...	2	...	...	...	1
Pallister Street	90	...	...	...	...	...	...	...	...	...	...	...	...	...
Raglan Street	423	11	5	3	...	2	...	...	...	...	1	1	1	1
Smith Street	14	4	...	3	...	1	...	...	...	...	...	...	...	...
Victoria Road	316	9	5	3	...	2	...	1	...	...	...	...	...	3
Wilson Street	666	5	...	3	...	1	...	...	...	...	...	...	...	1
Totals .....	...	201	59	62	1	30	1	10	1	...	5	3	10	36

DISTRICT No. IV.—SUB-DIVISION 1.—(Continued.)

STREETS, COURTS, &c.	Population.	Total Deaths.	AGES		CERTAIN CAUSES.									
			Under 1.	1 and under 5.	Measles.	Scarlatina.	Diphtheria.	Whooping Cough.	Enteric Fever.	Other Fevers.	Diarrhoea.	Other Zymotics.	Phthisis.	Inflammatory Lung Diseases
Brought forward .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Railway Terrace	14	...	...	...	...	...	...	...	...	...	...	...	...	...
Richard Street	50	4	1	1	...	...	...	...	...	...	...	...	...	1
Robson Street .....	...	2	...	2	...	...	...	...	...	...	...	...	...	...
Simon Street	54	...	...	...	...	...	...	...	...	...	...	...	...	...
Stackyard.....	36	...	...	...	...	...	...	...	...	...	...	...	...	...
Stableyard .....	...	1	1	...	...	...	...	...	...	...	...	...	...	...
Shepherd Street	45	...	...	...	...	...	...	...	...	...	...	...	...	...
Station Cottages	144	...	...	...	...	...	...	...	...	...	...	...	...	...
Sanderson's Court	54	1	...	1	...	...	...	...	...	...	...	...	...	1
Slake Row	153	2	1	1	...	...	...	...	...	1	...	...	...	1
Scullers' Landing	45	...	...	...	...	...	...	...	...	...	...	...	...	...
Smokey Row	45	2	...	1	...	1	...	...	...	1	...	...	...	...
Temple Town	22	2	...	1	...	...	...	...	...	...	...	...	...	...
Thornton Street	216	7	...	1	...	1	...	...	...	...	...	...	...	3
Turncoat Row	157	3	1	1	...	...	...	...	...	1	...	...	1	1
West Holborn	360	10	3	4	1	2	...	1	...	...	...	1	...	3
Weetman Street	22	...	...	...	...	...	...	...	...	...	...	...	...	...
Windmill Hill	204	2	1	1	...	...	...	...	...	...	...	...	...	1
Waggonway Side.....	72	2	1	...	...	...	...	...	...	...	...	...	...	...
West Pan Place	139	2	1	...	...	...	...	...	...	...	...	...	...	1
Well Lane	36	4	1	1	...	...	...	1	...	...	...	...	...	2
Wright's Court	18	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals .....	...	95	25	23	2	8	...	2	...	1	4	...	5	25

APPENDIX [A.9.]

DISTRICT No. IV.

SUB-DIVISION 2.—That part of the District situated to the East of the Passenger Line.

STREETS, COURTS, &c.	Population.	Total Deaths.	AGES		CERTAIN CAUSES.									
			Under 1.	1 and under 5.	Measles.	Scarlatina.	Diphtheria.	Whooping Cough.	Enteric Fever.	Other Fevers.	Diarrhoea.	Other Zymotics.	Phtthisis.	Inflammatory Lung Diseases
Alexander Street	121	3	2	1	...	1	...	...	...	...	...	...	...	1
Alice Street	235	8	3	1	1	...	...	...	...	...	...	1	...	...
Barnes (The)	215	5	3	...	...	...	...	...	...	1	...	...	...	1
Broken Gardens	72	...	...	...	...	...	...	...	...	...	...	...	...	...
Berwick Street.....	81	...	...	...	...	...	...	...	...	...	...	...	...	...
Campbell Street	1084	18	3	4	...	3	...	...	...	...	2	2	2	2
Clarendon Terrace .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Conway Terrace .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Deans (The)	63	1	...	1	...	...	...	...	...	...	...	...	...	...
Dean Brewery	16	...	...	...	...	...	...	...	...	...	...	...	...	...
Dean Terrace	24	...	...	...	...	...	...	...	...	...	...	...	...	...
Eldon Street	1296	26	6	4	...	...	...	...	...	...	2	2	10	...
Francis Street	266	2	1	1	...	...	...	1	...	...	...	...	...	1
Florence Street	112	4	2	2	...	1	...	...	...	...	...	1	...	...
Frederick Street	706	13	4	1	...	2	...	...	...	...	...	...	...	3
Garden Walks	81	2	...	1	...	1	...	...	...	...	...	...	...	...
Gladstone Terrace	162	1	1	...	...	...	...	...	...	...	...	...	...	1
Havelock Street	175	7	3	3	...	...	...	...	...	...	...	...	...	3
John Williamson Street	736	13	4	3	...	...	...	...	...	1	...	...	...	2
Joseph Terrace	54	...	...	...	...	...	...	...	...	...	...	...	...	...
Laygate Lane	234	1	1	...	...	...	...	...	...	...	...	...	...	1
Laygate Gardens.....	108	1	...	...	...	...	...	...	...	...	...	...	...	...
Palmerston Street	1123	16	6	4	...	3	...	...	...	...	...	...	...	6
Reken Dyke Lane	188	4	...	4	...	3	...	...	...	...	...	...	...	1
Reed Street	46	1	...	1	...	...	1	...	...	...	...	...	...	...
Trinity Court	18	...	...	...	...	...	...	...	...	...	...	...	...	...
Walpole Street	216	2	...	...	...	...	...	...	...	...	...	1	1	1
Totals .....	...	128	39	30	1	14	...	2	...	...	2	5	6	23

APPENDIX [B.]

TABLE OF MORTALITY AND SICKNESS

In the Urban Sanitary District of South Shields, for the twelve calendar months ending December 31st, 1879. (Prepared in accordance with the Notes of the Local Government Board.) Area in acres, 1870. Population, 1871, 45,336.

NAME OF DISEASE.	(A) Deaths (among all classes) registered as having occurred in the District or Division.		Deaths of Persons who have come into the District or Division with their fatal illness upon them.		(B) Sickness and Deaths among Paupers.			(C) If there be any Hospital or other Public Medical Institution in or near the District or Division, the subjoined columns are to be filled up.						
	Aged under 5 years.	Aged 5 years and upwards.	Aged under 5 years.	Aged 5 years and upwards.	New Cases.		Deaths.		IN-PATIENTS.		OUT-PATIENTS.			
					VI.	VII.	VIII.	IX.	Aged under 5 years.	Aged 5 years and upwards.	Aged under 5 years.	Aged 5 years and upwards.	Aged under 5 years.	Aged 5 years and upwards.
I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	XI.	XII.	XIII.	XIV.	XV.
Small-pox ...	17	2	...	...	42	29	1	...	...	...	...	...	...	...
Measles ...	83	46	2	4	6	15	4	3	...	...	...	...	...	...
Scarlatina ...	4	2	...	...	...	...	...	...	...	...	...	...	...	...
Diphtheria ...	5	2	...	...	...	...	...	...	...	...	...	...	...	...
Croup (not "spasmodic") ...	40	1	...	...	14	6	3	...	...	...	...	...	...	...
Whooping Cough ...	...	2	...	...	...	1	...	...	...	...	...	...	...	...
"Continued" Typhus ...	1	9	...	2	3	9	...	1	...	...	...	...	...	...
Enteric Fevers. } ...	3	4	...	2	9	21	3	2	...	...	...	...	...	...
Of other, or doubtful sorts. ...	28	5	...	...	8	2	...	1	...	...	...	...	...	...
Diarrhoea and Dysentery ...	...	...	...	...	...	2	...	...	...	...	...	...	...	...
Cholera ...	...	...	...	...	...	6	...	1	...	...	...	...	...	...
Rheumatic Fever ...	2	1	...	...	...	...	...	...	...	...	...	...	...	...
Erysipelas ...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Pyæmia ...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Puerperal Fever ...	...	6	...	...	...	...	...	...	...	...	...	...	...	...
Ague ...	...	...	...	...	...	2	...	...	...	...	...	...	...	...
Phthisis ...	8	74	...	5	...	45	...	14	...	...	...	...	...	...
Bronchitis, Pneumonia, and Pleurisy ...	136	113	...	4	25	135	3	19	...	...	...	...	...	...
Heart Disease ...	...	59	...	2	...	22	...	4	...	...	...	...	...	...
Injuries ...	7	25	...	...	4	41	...	2	...	...	...	...	...	...
Diseases not named above ...	253	275	3	7	41	459	4	25	...	...	...	...	...	...
TOTAL ...	587	627	5	26	152	815	18	72	...	...	...	...	...	...

APPENDIX [C.]

INSPECTOR OF NUISANCES' REPORT.

TABLE I.—STATUTORY NOTICES ISSUED FROM HEALTH OFFICE DURING YEAR 1879.

1.—COMMON NUISANCES.	
To remedy defective drainage, defective and dilapidated privies, ashpits, and water-closets.....	320
To whitewash and purify houses, rooms, and passages.....	625
To remove offensive accumulations of refuse	248
To provide closet accommodation	13
" " drainage to houses and land.....	10
" " water supply to houses	88
To pave yards and passages	12
To remove animals kept so as to be a nuisance.....	18
" " stables do. do.	1
" " privy-middens and substitute improved forms of closet accommodation	109
To cleanse privy-middens and to remove liquid therefrom	70
To repair or alter dilapidated and ill-constructed houses and rooms	43
Notices as to houses unfit for habitation.....	40
2.—OVERCROWDING AND INSUFFICIENT VENTILATION.	
To abate overcrowding in houses	10
To provide more efficient ventilation in houses, shops, and schools	15
3.—LODGING HOUSES.	
To register common lodging houses	6
To abate overcrowding in lodging houses
To whitewash and cleanse do.	2
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Total Statutory Notices served during the year	1630
Verbal Notices	1471
<hr/>	
Total	3101

TABLE II.—INFECTIOUS DISEASES IN HOUSES.

Number of houses visited in consequence of presence of infectious disease	373*
Number disinfected under supervision	125
Number disinfected by Inspector.....	42
Notices served to disinfect	106

* Many of these were visited several times.

TABLE III.—UNWHOLESOME FOOD DESTROYED.

Beef	62 stones.
Pork	8 „
Mutton	
Fish	2 „

A large quantity of meat, reported unsound, was examined but not seized, the Medical Officer considering it not unfit for food.

TABLE IV.—PROCEEDINGS BEFORE THE JUSTICES.

NUISANCES.

DESCRIPTION.	No. of Cases.	Results.	Penalties.
Defective privy accommodation	9	8 Orders to abate the nuisance. In most cases, in the terms of the notice; <i>i.e.</i> , to remove middenstead and provide other form of closet accommodation	Costs.
Defective drainage.....	1	1 dismissed	Do.
Keeping animals so as to be a nuisance	1	Do.	Penalty, £5 and costs.

FOOD AND DRUGS ACT.

DESCRIPTION OF OFFENCE.	No. of Cases.	Result.	Penalties.
Milk (watered)	5	Fined	Fines from £1 to 2s. 6d.
Confectionery adulterated with poisonous substances	1	Do.	£5.

