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CITY AND COUNTY OF NEWCASTLE-UPON-TYNE.

TWENTY-FIRST REPORT
OF THE
MEDICAL OFFICER OF HEALTH
ON THE
Sanitary Condition of Newcastle-upon-Tyne,
WITH
TABULAR RETURNS
OF THE
SICKNESS AND MORTALITY
DURING THE YEAR 1893.



Newcastle-upon-Tyne :
TYNE PRINTING WORKS Co., 26, SIDE
1894.

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APPENDIX D.

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TO MR. ALD. H. W. NEWTON, J.P., L.F.P.S., CHAIRMAN OF THE
SANITARY COMMITTEE OF THE CORPORATION OF NEWCASTLE-
UPON-TYNE.

SIR,

Herewith I beg to submit to you my Twenty-first Annual Report, viz., that for the year 1893.

The *Marriage Rate*, which in 1892 was shewn to have fallen below that of the past two years, continues low, the actual number of marriages in 1893 being two below those of the year before (see page 18).

The *Birth-Rate* (33·6 per 1,000) is ·7 per 1,000 less than that of the previous year (see page 13).

The *General Death-Rate* per 1,000 is 20·86, against one of 19·5 in 1892 (see page 13). The principal increase of mortality is in the Westgate Registration Sub-District (1,831 deaths against 1,531 in 1892). The 300 additional deaths in this sub-district are principally made up as follows:—Measles (excess of deaths over previous year), 110; Diarrhœa, 56; Heart Diseases, 59; Pneumonia, 28; Debility, Atrophy, &c., 61—total, 314. On the other hand, the mortality in the Westgate Registration Sub-District from certain other diseases has exhibited a decrease.

Zymotic Diseases, including Diarrhœa, have caused 461 deaths, against 284 in the year 1892. This excess of 157 deaths is more than accounted for by the mortality in three diseases neither of which is at present notifiable to the Sanitary Authority, viz., Measles, Whooping Cough, and Diarrhœa. The deaths from these causes in the two last years are respectively as follows, viz.:—

	DEATHS.	
	1892.	1893.
Measles	67	208
Whooping Cough	75	33
Diarrhœa	73	154
TOTAL	215	395

Difference, 180.

NOTIFIABLE DISEASES (see page 23) caused 82* deaths as compared with 88* in the previous year. There has been no death from Smallpox, and 2* deaths only are returned from Typhus. Scarlet Fever has caused 23* deaths as compared with 29* in the previous year. There is, on the other hand, an increase of fatal cases of Enteric Fever (25* against 14*) over those in 1892, when the number of deaths from that disease was unprecedently low. Enteric Fever has been both actually and relatively somewhat more severe than during the year before. Thus the rate of mortality to cases is 17·7* per cent. in the latter year, against 14·4* in the former.

Scarlet Fever shows a slight increase in the rate of mortality to cases (3·3 against 3·0 per cent. in 1892), but a considerable reduction in number of cases (693 against 963).

Diphtheria shews both a reduction below the previous year in number of deaths (28* against 41*) and rate of mortality (16·4 per cent. against 26·2 per cent). The number of cases is somewhat increased (see page 18).

Asiatic Cholera caused two deaths and gave rise to two other cases.

THE NOTIFICATION OF MEASLES, WHOOPING COUGH, AND ERYSIPELAS.

My last Annual Report (page 11) stated that the notification of the three above-named diseases had been considered by the Sanitary Committee, and that the voting for and against its adoption was equal.

In April of the year under report, when the mortality of Measles had again become exceedingly prominent, I once more brought the subject before the Committee in the following words :—

Measles.—During the fortnight under report, 22 deaths from Measles are reported. Of these, 10 (all in the Registration Sub-District of Westgate) occurred in the first week, and 12 in the second (including 10 in Westgate, 1 in All

* Corrected by addition of those occurring in the City Hospital for Infectious Diseases.

Saints', and 1 in Byker Registration Sub-Districts). As the Committee are aware, little information respecting Measles, beyond returns of deaths, reaches the Health Department. The decision that Measles shall not be officially made known in the same way as other infectious febrile diseases being in some sense an implication that it is not officially recognised, places the Health Department in a position of uncertainty with respect to the action to be taken in such cases as are reported. This state of matters is detrimental to the health of the citizens. At the present time Measles is by far the most fatal infectious disease in the City. The Committee are recommended to reconsider the question of the notification of Measles.

In May, I reported as follows on the prevalence of Measles in connexion with the Board Schools of the City:—

Measles and the Board Schools—

The prevalence of Measles is interfering with the attendance of the Board Scholars very considerably. The schools most affected in this respect are those at Spital Tongues, The Royal Jubilee (City Road), Westmorland Road, and St. Peters. Information as to the Scotswood Road School has not yet come to hand. The greatest prevalence of the disease has been amongst the children of the Spital Tongues School, most of whom are infants. On visiting this school on the 11th inst., the Medical Officer of Health found that of a total of 299 scholars 114 were absent principally on account of Measles, either in the persons of the scholars or their relatives at home. It appears that the greatest number of cases occurred on or about the 1st of May, before the school examination, which was held on May 4th. Prior to this date there had not been many cases. Four children were found "to come out in spots whilst in the school." The mistress states that no undue pressure was put to make a large school attendance, but thinks the parents were "most likely anxious to have their children at the examination, and might send them whilst ailing." On

the day of the examination 83 were absent on account of Measles. All of these cases are believed to have occurred between the 1st and 4th inst.

Disinfection of the school has been done by the Special Inspector, and will be repeated.

On the instruction of the Sanitary Committee, the Medical Officer of Health submitted a Return* of details as to Diseases Notified and Measles.

A motion to include Measles among the diseases notified was once more discussed by the Committee in May, and, on being put to the meeting, was lost by one vote.

Infant Mortality.—The deaths of Infants under one year of age are 162 above those of the previous year (see page 17). The principal factors are Measles, Diarrhoea, Atrophy and Debility.

Uncertified Deaths, which in 1892 were the lowest number on record (51), shew a still more satisfactory reduction (37).

The number of *Cases of Infectious Diseases Notified* (see page 18) is 184 less than in that of the previous year (1,051 against 1,235). Scarlet Fever shews a decrease of 270 cases. On the other hand, there is an increase under the heads of Smallpox 21), Typhus (3), Enteric Fever (44), Diphtheria (15), &c.

Smallpox, which had appeared in December of 1892, continued to furnish fresh cases until August 1893. As the fresh introduction of the disease into Newcastle was on different occasions due to Vagrants, and as it appeared that this class of persons were, with little or no check, spreading infection and keeping alive the disease throughout the country, I collected information from seventy large English towns, which I embodied in a Special Report† submitted to the Sanitary Committee in June. This report proved that the continuance of the disease for the past two years, and its spread from place to place, had been to a very large degree indeed due to Vagrants. As in the interests of the community it appeared desirable that some special action should be taken to prevent the dissemination of

* See Appendix C.

† On Smallpox and Vagrancy.

this and other diseases—of which, *e.g.*, Cholera might easily be one—by this class of persons, it was proposed that the Sanitary Authorities of the large English Urban Sanitary Districts should meet to consider the best course to take under the circumstances. It is still hoped that a conference on this important subject may be convened in the Metropolis.

Diphtheria.—Early in the year Diphtheria became prevalent. By April there was a considerable decrease of cases, but during the latter half of the year there was some revival of this disease (see page 21). In all 171 cases in 134 households were notified and inquired into during the year.

A street list of the cases is given in Table X. A Summary of the Cases, shewing their distribution in respect of the Wards of the City, the different classes of dwelling, and the number of cases in each respectively, will be found in Appendix B (p. 79). Infection is not known to have been due to milk supply in any instance.

The invaded houses are classified as follows, viz. :—

	No.	Percentage to Total.
Self-contained Dwellings	50	37·3
Flats	63	47·0
Tenements	21	15·7
Totals	134	100·0

Of the different households—

Infection was imported from beyond the City into ... 3 houses
 Disease was already in the adjoining dwelling or
 near it in 12 „
 The house drains were not tested* in ... 4 „
 60% of the Self-contained Houses examined had structural defects.
 71% „ Flats examined had structural defects.
 86% „ Tenements „ „

The most common structural defect is that of defective drain, of which no less than 64 instances were found, or in nearly half of the houses invaded by the disease.

* For special reasons.

Next in order of frequency is the defect of untrapped scullery sink waste (25 instances); untrapped bath and lavatory waste, and defectively trapped or untrapped drain come next (9 instances each), followed by 8 instances of defective water-closet. In 7 instances foul ashpit and privy are noted. The remaining defects in the Table include cases of obstructed drain, undisconnected drain or soilpipe, defective soilpipe, soilpipe not ventilated or with ventilator near windows, damp rooms, defective yards.

Enteric Fever (page 18) shews an increase of 44 cases over the number notified in the previous year, which was the lowest on record.

Scarlet Fever (page 18) exhibits a decrease of 270 cases, or 28 per cent., as compared with those of the previous year.

Cholera.—In September two fatal cases of Cholera occurred in the same tenement at No. 52, Conyers Road, Byker. The first case was that of a fish hawker who had come from Yarmouth a day or two before taking ill; the second case occurred in the same tenement before the death of the first. No extension of infection from these cases is known. In October two other cases of Cholera occurred—one at a fish shop in Nelson Street, the other in a tenement house in Drury Lane. Both were removed to the Cholera Hospital and recovered.

A Chart of the Cases of Infectious Diseases Notified during each month of the past Eleven Years is given in Appendix D.

Cholera Hospital.—The Administrative Department, and one Block of Twenty Beds, together with Disinfecting Apparatus, Infected Refuse Destructor, Mortuary, Out-offices, &c., were completed and ready for use in August. The drainage, foundations, and cement floors for other four Ward Blocks had also been laid, with a contracting arrangement by which at any time, if required, an additional Block could be ready on three weeks' notice.

The Block erected was provided with a Steam Sterilizer for the treatment of infected excreta. The apparatus, which is constructed by Messrs. Goddard Massey and Warner, Nottingham, acting under the direction of the City Engineer and Medical Officer of Health, is a modification of that at the Alexander Hospital, St. Petersburg, and is fixed in an offshoot of the Ward. It is available for use both as a slop-closet and as an ordinary commode for convalescents.

Admissions to Hospitals for Infectious Diseases. (See Appendix A, Table XI., page 66). The numbers admitted to the different Hospitals for Infectious Diseases have been as under:—

	Cases.	Mortality per cent. to Cases.
City Hospital for Infectious Diseases,		
Walker Gate	292	5
Smallpox Hospital	23	nil.
Cholera Hospital	2	nil.
Total	317	

*Errors of Diagnosis.**—Four of the cases notified as Scarlet Fever (or 2 per cent.), 8 of those notified as Enteric Fever (or 15 per cent.), 5 of those notified as Diphtheria (or 25 per cent.), 1 of 3 cases notified as Continued Fever, and 1 of 2 cases reported as Typhus were, after removal to Hospital, found to be suffering from disease other than as certified. The total rate of error of diagnosis (6·5 per cent. of admissions to the City Hospital for Infectious diseases) is lower than formerly.

The Work of the Health Department.—The work of the Health Department goes on with activity. The Reports of the Inspectors are given on pages 38-43, and the returns of their respective works will be found in Appendix A (Tables XIV. to XIXD).

Among other noteworthy features which may be specified are the closure of cellar dwellings, the number of defective pail-closets and other conveniences dealt with, and generally the large amount of sanitary inspection done and improvements effected.

* See also page 35.

It will be observed (Appendix A, Table XVI., page 70) that the number of new pail-closets provided in the abatement of nuisances (230) is much less than the year before (332), and that the number of water-closets put in in similar circumstances is maintained (646 last year against 644 during the year before).

It is satisfactory to note that although the number of inspections of tenement property (Appendix A, Table XVI.) have been considerably more than in the year before (21,462 against 15,954), the contraventions of the Bye-laws reported have been fewer (1,410 against 1,752 in 1892)—an evidence of improved sanitary habits on the part of the tenants.

The number of nuisance cases, &c., heard before the magistrates is 119, the fines imposed for which amount to £3 5s., as compared with 128 cases and £10 1s. imposed fines in the previous year.

The number of prosecutions under the Food and Drugs Acts (see Table XVIII., Appendix A) is an increase on those of the year before. The penalties imposed (£6 15s.) are the same in amount for both years.

The inspection of *Common Lodging Houses* (Tables XIX., and XIXA., B, C, and D, has proceeded with regularity throughout the year.

The amount of Suspected or Unwholesome Provisions dealt with (Appendix A, Table XIV.) is considerably greater, and the fines imposed (£31. 3s. 6d.) heavier than during the year 1892.

The Report of Inspector Hedley (page 41) shews that the number of Cowkeepers in the City is gradually falling off, which is satisfactory as regards the sanitation of the City. How far the change may be conducive to improvement in the milk supply is difficult to say.

The *Slaughter Houses* are becoming insufficient for the requirements of the City. The new block erected at Byker Hill by a Company of Butchers to meet the objection of the Authority to the old insanitary slaughter houses in the East end, although well built and in many respects commendable, does not remedy this, and will not stimulate the proposal previously entertained of the erection of a Public Abattoir by the Corporation.

Housing of the Working Classes Act, 1890.—Practically nothing has been done under this Act during the year under report. Details of six special blocks of Tenement Dwellings were submitted to your Committee in November.

Customs and Inland Revenue Act, 1891.—A small number of Applications have been made for Certificates of Exemption from Inhabited House Duty, but the circumstances have not justified the granting of a certificate.

Factory and Workshops Act.—The number of Workshops reported to the Medical Officer of Health by the Government Inspector, and examined, is increasing (87 last year against 24 during the previous year). The examinations occupy a relatively large amount of time on the part of the staff of the Health Department.

Housebuilding in the City shews a decrease during last year. Thus accommodation was provided in 1892 for 875 families, and in 1893 for only 736 (see page 44). The reduction has been in both self-contained houses and flats.

I have the honour to be,

Sir,

Your obedient Servant,

HENRY E. ARMSTRONG, D.Hy.

MEDICAL OFFICER OF HEALTH.

*Health Department,
Town Hall,
Newcastle-upon-Tyne,
30th April, 1894.*

CITY AND COUNTY OF NEWCASTLE-UPON-TYNE.

REPORT, 1893.

(A.)—GENERAL STATISTICS.

DURING the 52 weeks ended 30th December, 1893, 6,624 births and 4,111 deaths have been registered in the City. The births represent a rate of 33·6 and the deaths a rate of 20·86*, per 1,000 of a population of 197,026 at all ages, as estimated by the Registrar General to the middle of the year.

The following is a Table of the recorded rates of mortality from all causes, and the seven "Chief Zymotic Diseases" for previous years:—

RATES OF MORTALITY PER 1,000 POPULATION OF NEWCASTLE-UPON-TYNE.

A. D.	All Causes.			Seven "Chief Zymotic Diseases."			
1868	...	...	27·1	...	...	...	—
1869	...	...	27·2	...	...	...	—
1870	...	...	25·4	...	...	...	3·9
1871	...	...	32·2	...	...	...	9·3
1872	...	...	26·3	...	...	...	4·5
1873	...	...	30·1	...	...	...	6·9
1874	...	...	29·2	...	...	...	5·5
1875	...	...	26·1	...	...	...	3·6
1876	...	...	22·7	...	...	...	2·6
1877	...	...	22·3	...	...	...	2·5
1878	...	...	23·7	...	...	...	4·6
1879	...	...	23·5	...	...	...	3·9
1880	...	...	22·3	...	...	...	3·2
1881	...	...	21·7	...	...	...	2·6
1882	...	...	23·0	...	...	...	3·3
1883	...	...	25·4	...	...	...	4·3
1884	...	...	23·5	...	...	...	3·2
1885	...	...	26·0	...	...	...	4·4
1886	...	...	22·2	...	...	...	2·5
1887	...	...	25·2	...	...	...	3·3
1888	...	...	20·5	...	...	...	1·4
1889	...	...	25·0	...	...	...	3·0
1890	...	...	26·2	...	...	...	2·1
1891	...	...	23·6	...	...	...	2·5
1892	...	...	19·5	...	...	...	1·5
1893	...	...	20·86	...	...	...	2·3

* This return does not include the deaths in the City Hospital for Infectious Diseases, 15 in number, of persons belonging to Newcastle. With these included the death-rate is 20·94 per 1,000. Deducting deaths (143) in the Infirmary of persons who came there from beyond the City boundary the rate is 20·1.

The number of births and deaths in the different Registration Sub-districts of the City during 1893 and the previous year is subjoined :—

REGISTRATION SUB-DISTRICTS.	BIRTHS.		DEATHS.	
	1892.	1893.	1892.	1893.
Westgate	2,925	2,972	1,531	1,831
St. Andrew's	494	506	349	361
St. Nicholas'	205	207	391	424
All Saints'	965	905	521	503
Byker	1,995	2,034	962	992
City	6,584	6,624	3,754	4,111

Deaths in
Public
Institutions.

The deaths in Public Institutions during the year under report are as follows :—

DEATHS IN PUBLIC INSTITUTIONS IN THE DIFFERENT REGISTRATION SUB-DISTRICTS
DURING THE 52 WEEKS ENDED 30TH DECEMBER, 1893.

REGISTRATION SUB-DISTRICTS.	INSTITUTION.	DEATHS.
Westgate	Union Workhouse	226
	St. Joseph's House	24
	St. Mary's Hospital	1
St. Andrew's	Magdalene Hospital	4
	Hospital for Incurables	4
	" " Chest Diseases	1
	Barracks (Military)	6
St. Nicholas'	Eye Infirmary	2
	Royal Infirmary	253
	Children's Hospl., Hanover Square	1
All Saints'	H.M. Prison	1
	Holy Jesus' Hospital	1
	Lying-in Hospital	2
	St. Catherine's Hospital	1
Byker	Fleming Memorial Hospital ..	41
	Total	568

The mortality from the "chief Zymotic diseases" during successive seasons of the year is as follows:—

Mortality
from chief
Zymotic
Diseases

		REGISTRATION SUB-DISTRICTS AND CITY.																			
		WESTGATE. †				ST. ANDREW'S.				ST. NICHOLAS.				ALL SAINTS.				BYRER.			
		1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Total.	1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Total.	1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Total.	1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Total.
Small-pox	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Measles	...	27	93	11	7	138	5	11	1	...	17	4	...	...	...	4	9	8	6	...	23
Scarlet Fever (Scarlatina)	...	4	1	5	3	13	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...
Diphtheria	...	5	2	3	5	15	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Whooping-Cough	...	6	4	2	11	23	1	...	...	...	1	1	...	1	...	...	1	...	...	...	...
Typhus Fever	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
Enteric (or Typhoid) Fever	...	2	1	3	5	11	1	...	...	...	1	2	...	1	...	...	1	...	...	...	...
Simple Continued and Ill-defined Fever	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Asiatic Cholera	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Diarrhoea, Dysentery	...	3	4	63	8	78	...	1	8	...	9	4	...	...	...	...	...	...	...	...	...
TOTALS	...	47	105	87	39	278	7	12	10	...	29	1	5	4	3	13	10	12	20	9	51
																	5	24	48	13	90
																	70	158	169	64	461*

* Representing a Rate of 2.3 per 1,000 population.

† Exclusive of Benwell and Fenham.

Deaths from
Miasmatic
order of
Zymotic
Diseases.

The condition of the different Registration Sub-Districts in regard of mortality from the Miasmatic order* of Zymotic diseases during last, as compared with the preceding, year is as follows :—

SUB-DISTRICTS.	Number of Deaths from Miasmatic Diseases.	
	1892.	1893.
Westgate	102	214
St. Andrew's	26	24
St. Nicholas'	10	9
All Saints'	26	31
Byker	92	53
City	256	331†

Measles and
Diarrhœa.

The most fatal Zymotic diseases have been Measles from which 208 ; and Diarrhœa from which 154, deaths are returned.

Bronchitis
and
Pneumonia.

DEATHS FROM BRONCHITIS AND PNEUMONIA.

1893.	REGISTRATION SUB-DISTRICTS.					CITY.	Number in previous year (1892).
	Westgate (Work-house).	St. Andrew's.	St. Nicholas' (Infirmary).	All Saints'.	Byker.		
1st Quarter ...	61	9	16	18	29	133	200
2nd „ ...	55	16	8	14	26	119	142
3rd „ ...	45	10	3	16	20	94	73
4th „ ...	68	17	12	29	41	167	108
Year	229	52	39	77	116	513	523
Number in previous Year (1892) ...	206	53	34	89	141	523	

* See Appendix A, Table II. In uniformity with the Classification of causes of death, adopted by the Registrar General, Diarrhœal diseases are now excluded from the Miasmatic order of the Zymotic class of diseases. The deaths from these diseases are stated in the Table on previous page.

† Including 26 deaths from Influenza (see page 46).

INFANT MORTALITY.

The number of Infants dying before the completion of the first year of life is 1,151, as compared with 989, 1,168, and 1,117 respectively, in 1892, 1891, and 1890. For details, see Appendix A, Table VIII. Infant Mortality

REGISTRATION SUB-DISTRICTS.	No. 1. Deaths of Children under 1 year of age.		No. 2. Rates per cent. of Deaths under 1 year to Births registered.	
	1892.	1893.	1892.	1893.
Westgate... ..	399	509	13·6	17·1
St. Andrew's	79	88	16·0	17·4
St. Nicholas'	42	58	20·5	28·0
All Saints'	141	159	14·6	17·6
Byker	328	337	16·4	16·6
City	989	1,151	15·0	17·4

The following are the most prominent diseases causing the Infant mortality :—

	DEATHS.	
	1892.	1893.
Measles	15	45
Whooping-Cough	30	13
Diarrhœa, Dysentery	59	102
Tabes Mesenterica	48	25
Premature Birth	110	125
Convulsions	105	104
Bronchitis	100	71
Pneumonia	60	68
Dentition	31	27
Diseases of Stomach... ..	20	68
Debility, Atrophy, and Inanition...	170	259
TOTAL	748	907

UNCERTIFIED DEATHS,

That is to say, deaths registered without any proper medical certificate having been given or inquest held, have contributed 37 cases to the general mortality, as compared with 51 during the previous year. See Appendix A, Table IX. Uncertified Deaths.

MARRIAGES.

Marriages. During the year ending March 31st, 1893, the number of marriages registered in Newcastle-upon-Tyne (Superintendent Registrar's district), was 1,892.

RETURN OF MARRIAGES IN NEWCASTLE-UPON-TYNE* DURING THE PAST
10 YEARS (1884-93).

Year. ended March 31.	Number	Year ended March 31.	Number
1884	1,902	1889	1,874
1885	1,730	1890	2,020
1886	1,729	1891	2,124
1887	1,705	1892	1,894
1888	1,829	1893	1,892

INFECTIOUS DISEASE INQUIRY.

CASES OF INFECTIOUS DISEASE KNOWN TO THE HEALTH DEPARTMENT.

Notification
of Infectious
Disease.

During the year under report 1,051 cases of Infectious Disease† have been made known to the Medical Officer of Health by medical practitioners, under the "Newcastle-upon-Tyne Improvement Act, 1882," and otherwise, including the following :—

					CASES KNOWN TO THE HEALTH DEPARTMENT.	
					1892.	1893.
Cholera	...	...	...	...	..	4
Small-pox	...	...	...	...	4	25
Typhus	...	...	...	...	...	3
Enteric Fever	...	...	...	...	97	141
Simple Continued Fever	...	...	...	...	8	10
Scarlet Fever	...	...	...	...	963	693
Diphtheria	...	...	...	...	156	171
Puerperal Fever	...	...	...	...	7	4
Relapsing Fever	...	...	...	...	...	...
TOTAL	...	...	...	...	1,235	1,051

A Return to the Local Government Board of the Notifications during the previous week has been forwarded each Monday morning during the year, on forms supplied for the purpose.

* Superintendent Registrar's district, which includes the Municipal area and the Extra-Municipal Townships of Benwell and Fenham.

† A street list of the cases is given in Appendix A, Table X.

The following Tables shew the monthly returns of the diseases beforenamed in the respective Wards of the City:—

SMALLPOX IN NEWCASTLE-UPON-TYNE, 1893.

NUMBER OF CASES KNOWN TO THE HEALTH DEPARTMENT.													
WARDS.	Jan.	Feb.	Mar.	April	May.	June	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Elswick East ...	1	...	...	...	...	1	...	1	...	...	...	...	3
Elswick North ...	...	...	...	...	...	1	...	...	...	...	...	...	1
Elswick South ...	...	...	1	...	...	...	...	4	...	...	...	...	5
Arthur's Hill ...	...	...	...	...	...	...	...	...	...	...	...	...	...
Westgate North ...	...	...	...	...	...	...	...	...	...	...	...	...	...
Westgate South ...	1	1	...	...	2	...	...	1	...	...	...	...	5
St. Andrew's North ...	...	...	...	...	2	...	...	...	...	...	...	...	2
St. John's ...	...	...	...	...	1	...	...	...	...	...	...	...	1
St. Nicholas' ...	...	...	1	...	1	...	...	...	...	...	...	...	2
All Saints' West ...	1	...	...	...	...	...	...	2	...	...	...	...	3
All Saints' East ...	...	...	...	...	1	...	...	...	...	...	...	...	1
All Saints' North...	...	...	...	...	...	...	...	...	...	...	...	...	...
St. Andrew's South ...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jesmond ...	...	1	...	...	...	...	...	...	...	...	...	...	1
Heaton ...	...	...	...	1	...	...	...	...	...	...	...	...	1
Byker ...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	3	2	2	1	7	2	...	8	...	...	...	...	25

Smallpox in different Wards, &c. during successive months.

ENTERIC FEVER IN NEWCASTLE-UPON-TYNE, 1893.

NUMBER OF CASES KNOWN TO THE HEALTH DEPARTMENT.													
WARDS.	Jan	Feb.	Mar.	April	May.	June	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Elswick East ...	...	...	..	...	...	...	...	4	1	1	...	...	6
Elswick North ...	...	...	...	...	1	1	...	1	1	1	...	2	7
Elswick South ...	...	..	1	...	...	...	...	1	2	1	1	2	8
Arthur's Hill ...	...	...	...	...	...	...	...	1	1	...	1	...	3
Westgate North ..	1	...	...	...	...	...	2	...	1	1	4	4	13
Westgate South ...	1	...	1	1	...	...	...	...	...	...	...	4	7
St. Andrew's North.	...	...	1	...	...	1	...	...	1	...	2	1	6
St. John's ...	1	1	...	...	...	...	...	...	...	...	...	...	2
St. Nicholas' ...	...	...	...	...	...	...	...	...	1	...	...	...	1
All Saints' West ...	...	...	...	...	...	...	...	...	..	...	1	1	2
All Saints' East ...	...	...	...	...	2	...	...	4	3	9	1	..	19
All Saints' North ...	...	...	...	...	1	...	1	3	...	3	2	3	13
St. Andrew's South.	...	...	...	...	...	...	1	...	...	1	...	...	2
Jesmond ...	...	1	...	1	...	1	2	4	2	1	...	...	12
Heaton ..	...	...	...	...	...	...	2	5	2	..	2	7	18
Byker ...	...	1	...	2	1	1	...	2	4	6	3	2	22
Total ...	3	3	3	4	5	4	8	25	19	24	17	26	141

Enteric Fever in different Wards, &c., during successive months.

CONTINUED FEVER IN NEWCASTLE-UPON-TYNE, 1893.

Continued
Fever in
different
Wards, &c.,
during
successive
months.

NUMBER OF CASES KNOWN TO THE HEALTH DEPARTMENT.													
WARDS.	Jan.	Feb.	Mar.	April	May.	June	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Elswick East	...	...	...	...	...	...	...	...	...	...	...	...	...
Elswick North	...	...	...	...	...	...	...	...	...	...	...	...	...
Elswick South	...	...	...	...	...	...	...	...	...	...	...	...	...
Arthur's Hill	...	...	...	...	...	...	...	...	...	...	...	...	...
Westgate North	...	...	...	...	...	...	...	1	...	1	...	...	2
Westgate South	...	...	...	...	...	...	...	...	...	...	...	...	...
St. Andrew's North.	...	...	...	...	...	...	...	...	...	...	...	...	...
St. John's	...	...	...	...	...	...	...	...	...	...	...	...	...
St. Nicholas'	...	...	...	...	...	...	...	...	...	...	...	...	...
All Saints' West	...	...	...	...	...	...	...	...	...	...	...	...	...
All Saints' East	...	...	...	...	...	...	...	...	1	2	...	...	3
All Saints' North	...	...	...	...	...	...	...	...	1	...	...	...	1
St. Andrew's South.	...	...	...	...	...	...	...	...	...	...	...	...	...
Jesmond	...	...	...	...	...	...	...	...	1	...	...	...	1
Heaton	...	...	1	...	...	...	...	...	...	...	...	...	1
Byker	...	...	...	...	...	...	1	...	...	...	1	...	2
Total ...	...	1	...	...	...	...	1	1	3	3	1	...	10

SCARLET FEVER IN NEWCASTLE-UPON-TYNE, 1893.

Scarlet
Fever in
different
Wards, &c.
during
successive
months.

NUMBER OF CASES KNOWN TO THE HEALTH DEPARTMENT.													
WARDS.	Jan.	Feb.	Mar.	April	May.	June	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Elswick East	9	5	3	3	7	1	1	5	3	3	4	2	46
Elswick North	10	5	2	4	...	...	1	3	3	14	3	9	54
Elswick South	10	3	3	5	3	5	5	4	4	11	17	24	94
Arthur's Hill	9	10	7	7	11	1	6	14	14	20	8	5	112
Westgate North	7	6	4	2	1	1	1	...	1	3	2	...	28
Westgate South	8	7	4	7	3	3	...	1	3	15	5	2	58
St. Andrew's North.	6	11	3	1	5	...	...	1	2	2	3	2	36
St. John's	2	1	...	1	2	...	2	...	2	...	...	4	14
St. Nicholas'	1	...	...	...	4	1	...	1	...	2	...	...	9
All Saints' West	...	1	2	4	2	...	...	...	...	...	...	...	9
All Saints' East	3	3	...	3	5	...	...	7	10	6	4	8	49
All Saints' North	2	5	3	3	5	2	...	4	4	3	5	9	45
St. Andrew's South.	...	...	...	1	3	...	...	...	1	1	...	1	7
Jesmond	9	3	5	1	2	3	3	2	4	...	2	...	34
Heaton	17	7	1	6	2	3	4	2	2	4	2	1	51
Byker	3	6	8	2	3	2	1	3	3	8	4	4	47
Total ...	96	73	45	50	58	22	24	47	56	92	59	71	693

DIPHTHERIA IN NEWCASTLE-UPON-TYNE, 1893.

NUMBER OF CASES KNOWN TO THE HEALTH DEPARTMENT.													
WARDS.	Jan.	Feb.	Mar.	April	May.	June	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Elswick East	1	...	2	1	1	1	...	1	...	1	1	...	9
Elswick North ...	2	1	4	...	2	...	2	1	1	6	2	...	21
Elswick South ...	1	...	...	...	2	2	2	...	1	3	...	...	11
Arthur's Hill ...	5	10	10	1	...	...	2	2	...	8	4	6	48
Westgate North ...	...	...	...	...	...	1	1	2	...	...	...	...	4
Westgate South ...	...	1	...	...	2	...	...	1	2	...	1	...	7
St. Andrew's North	3	...	1	...	...	1	...	2	3	6	...	...	16
St. John's ...	...	...	...	...	...	...	...	...	...	1	...	1	2
St. Nicholas' ...	...	...	1	1	...	...	...	...	...	...	...	...	2
All Saints' West ...	...	...	1	...	...	...	...	...	...	...	...	...	1
All Saints' East ...	...	...	...	...	...	1	...	...	...	...	...	2	3
All Saints' North ...	...	...	...	1	1	...	...	...	1	...	...	...	3
St. Andrew's South	...	...	...	...	...	1	...	...	...	...	...	...	1
Jesmond ...	1	...	...	...	...	...	4	...	...	...	1	...	6
Heaton ...	6	1	...	3	2	2	...	...	4	2	2	1	23
Byker ...	...	1	...	3	1	...	1	1	1	3	1	2	14
Total ...	19	14	19	10	11	9	12	10	12	31	12	12	171

Diphtheria
in different
Wards, &c.
during
successive
months.

PUERPERAL FEVER IN NEWCASTLE-UPON-TYNE, 1893.

1 case in February in All Saints' West Ward.
1 " " March " Elswick North "
1 " " April " Westgate " "
1 " " October " Arthur's Hill "
Total 4

TYPHUS FEVER IN NEWCASTLE-UPON-TYNE, 1893.

1 case in May in Westgate North Ward.
1 " " May " " South "
1 " " June " " " "
Total 3

ASIATIC CHOLERA IN NEWCASTLE-UPON-TYNE, 1893.

1 case in September in St. Nicholas' Ward.
2 cases " September " Byker Ward (both fatal).
1 case " October " St. Andrew's South Ward.
Total 4

Ages of
Cases
Notified.

CITY AND COUNTY OF NEWCASTLE-UPON-TYNE.

AGES OF CASES OF INFECTIOUS DISEASE NOTIFIED DURING THE YEAR 1893.

DISEASES NOTIFIED.	Under 1 Year.	1 Year and under 2.	2 Years and under 3.	3 Years and under 4.	4 Years and under 5.	Total under 5 years.	5 Years and under 10.	10 Years and under 15.	15 Years and under 20.	20 Years and under 30.	30 Years and under 40.	40 Years and under 60.	60 Years and under 80.	80 Years and upwards.	Age not stated.	TOTAL.
Smallpox ...	..	..	..	..	..	..	..	1	2	12	7	2	1	..	..	25
Cholera ...	..	..	..	..	..	..	..	..	..	1	2	1	..	..	..	4
Typhus Fever ...	..	..	..	..	..	..	..	2	..	1	..	..	..	..	..	3
Enteric Fever ...	1	1	1	2	9	14	27	22	19	30	11	16	..	..	2	141
Continued Fever...	..	..	..	1	..	1	5	1	2	..	1	..	..	..	..	10
Scarlet Fever ...	12	22	53	62	70	219	247	113	42	37	9	5	1	..	20	693
Diphtheria ...	2	11	11	14	13	51	52	21	11	18	8	5	1	..	4	171
Puerperal Fever...	..	..	..	..	..	..	..	..	..	4	..	..	..	..	..	4
TOTAL ...	15	34	65	79	92	285	331	160	76	103	38	29	3	..	26	1,051

CITY AND COUNTY OF NEWCASTLE-UPON-TYNE.

DEATHS AND DEATH-RATES DURING THE YEAR 1893, AT DIFFERENT ÆTAL-PERIODS.*

AGES.	SMALLPOX.		CHOLERA.		TYPHUS.		ENTERIC FEVER.		CONTINUED FEVER.		SCARLET FEVER.		DIPHTHERIA.		PUERPERAL FEVER.		TOTAL.	
	Deaths.	Percentage of Deaths to Cases Notified.	Deaths.	Percentage of Deaths to Cases Notified.	Deaths.	Percentage of Deaths to Cases Notified.	Deaths.	Percentage of Deaths to Cases Notified.	Deaths.	Percentage of Deaths to Cases Notified.	Deaths.	Percentage of Deaths to Cases Notified.	Deaths.	Percentage of Deaths to Cases Notified.	Deaths.	Percentage of Deaths to Cases Notified.	Deaths.	Percentage of Deaths to Cases Notified.
Under 1 year	...	...	...	...	...	...	1	100.0	...	...	2	16.6	2	100.0	...	...	5	33.3
1 Year and under 2	...	...	...	...	...	...	1	100.0	...	...	3	13.6	4	36.4	...	...	8	23.5
2 Years and under 3	...	...	...	...	...	...	...	...	...	...	2	37.7	2	18.2	...	...	4	6.2
3 " " 4	...	...	...	...	...	...	...	...	...	...	5	8.0	6	42.9	...	...	11	13.9
4 " " 5	...	...	...	...	...	...	...	...	...	...	1	1.4	3	23.0	...	...	4	4.3
Total under 5 Years	...	...	...	...	...	...	2	14.3	...	...	13	5.9	17	33.3	...	...	32	11.2
5 Years and under 10	...	...	...	...	...	...	...	...	...	...	7	2.8	8	15.4	...	...	15	4.5
10 " " 15	...	...	...	...	...	...	3	13.6	...	...	3	2.7	2	9.5	...	...	9	5.6
15 " " 20	...	...	...	...	...	...	7	36.8	...	...	...	...	1	9.1	...	...	8	10.5
20 " " 30	...	...	...	...	...	...	5	16.7	...	...	...	...	...	...	2	50.0	8	7.8
30 " " 40	...	...	...	...	...	...	2	18.2	...	...	...	...	...	...	...	...	3	7.9
40 " " 60	...	...	...	...	...	...	6	37.5	...	...	...	...	...	...	...	...	7	24.1
60 " " 80	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
80 Years and upwards.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total deaths and percent- age of deaths to cases notified ..	...	...	2	50.0	2	66.6	25	17.7	...	...	23	3.3	28	16.4	2	50.0	82	7.8

* Corrected by the addition of the deaths in the City Hospital for Infectious Diseases.

Deaths and
Death-rates
at different
Ætal-
periods.

SMALLPOX.

Smallpox. The undermentioned details refer to Smallpox during the year 1893 :—

Fresh cases :—

In 15 households—single cases	..	...	...	15
„ 2 „ 2 cases each	...	...	...	4
				19
„ 2 Public Institutions, &c. (see Table, Page 32)				6
Total				25

In relation to
Households,
&c.

Of the infected houses—

1 or about 6 per cent. consisted of 1 room each.

5	„	29	„	„	2 rooms	„
1	„	6	„	„	3 „	„
10	„	59	„	„	4 „	„ (or more).

17

Of the sick-rooms in the 17 different households infected, 8 are returned as not at all isolated from the rest of the premises, the families either having direct access to, or living in, the sick-room. In 11 of the cases no means to prevent infection were being taken; in 23 cases removal to Hospital was agreed to and effected.

17 occupants of the infected houses were employed at shops, &c., or in occupations elsewhere, as shewn on page 34.

The following businesses were carried on on infected premises, whereby infection was liable to be communicated to customers :—

Business, &c., carried on on Infected Premises, &c.	No. of		Remarks made at date of Inquiry.
	House- holds.	Cases.	
Common Lodging House	5	6	In two cases the patients went about whilst unwell. In four cases no precaution was being taken, and in one the family, &c, had access to sick-room.

TYPHUS.

The undermentioned details refer to Typhus during the year ^{Typhus} 1893 :— ^{Fever.}

Fresh cases :—

In 1 household—single case	...	...	...	1
„ 1 „ 2 cases	...	...	...	2
Total ...	...	...	...	<u>3</u>

Each of the infected households consisted of two rooms. The sick-rooms were not at all isolated from the rest of the premises, and in one no precaution was being taken to prevent spread of infection. In two of the cases removal to Hospital was agreed to and effected.

Four occupants of the infected households were employed at shops or in occupations elsewhere, as shewn on page 34.

ENTERIC FEVER.

The undermentioned details refer to Enteric Fever during the year ^{Enteric} 1893 :— ^{Fever.}

Fresh cases :—

In 101 households—single cases	...	...	...	101
„ 8 „ 2 cases each	...	...	..	16
„ 2 „ 3 „ „	...	...	...	6
„ 3 „ 4 „ „	...	...	...	12
„ 2 Public Institutions, &c. (see Table, Page 32)				6
Total	...	..		<u>141</u>

Of the infected houses—

18 or about 16 per cent. consisted of 1 room each.	
30 „ 26 „ „ 2 rooms „	
24 „ 21 „ „ 3 „ „	
42 „ 37 „ „ 4 „ „ (or more).	

114

In relation to
Households,
&c.

Of the sick-rooms in the 114 different houses infected, 35 are returned as not at all isolated from the rest of the premises, the families either having direct access to, or living in, the sick-room. In 31 of the cases no means to prevent infection were being taken ; in 54 cases removal to Hospital was agreed to and effected.

165 occupants of the infected houses were employed at shops, &c., or in occupations elsewhere, as shewn on page 34.

The following businesses were carried on on infected premises, whereby infection was liable to be communicated to customers :—

Business, &c., carried on on Infected Premises, &c.	No. of		Remarks made at date of Inquiry.
	House-holds.	Cases.	
Lodgers kept	1	1	The family had access to the sick-room.
Small General Shop ...	1	1	
Small Sweet Shop } and Washing done }	1	1	Patient occupied living room, which was also used as a shop. No precaution was being taken.
Nurses Home	1	1	
Dressmaker... ..	1	1	Family had access to the sick-room. The business was voluntarily suspended.
Newsagent	1	1	Everything passed by sick person carried through shop and kitchen.
Grocer	1	1	The family had access to the sick-room.
Medical Practitioner...	1	1	Family had access to the sick-room.

ENTERIC FEVER AND MILK SUPPLY.

Enteric
Fever & Milk
Supply.

The milk supplies in the above cases were derived as follows:—
One dairy supplied 7 households, one 5 households, two 3 households each, and two 2 households each during the year. Each of the remaining households was supplied by a separate dairy.

CONTINUED FEVER.

Continued
Fever.

The undermentioned details refer to Continued Fever during the year 1893 :—

Fresh cases—

In 10 households—single cases	...	...	...	10
Total	...	...	...	<u>10</u>

In relation to
Households,
&c.

Of the infected houses—

2, or about 20 per cent., consisted of 1 room each.

5	„	50	„	„	2 rooms	„
2	„	20	„	„	3	„
1	„	10	„	„	4	„

10

Of the sick-rooms in the 10 different houses infected, 6 are returned as being not at all isolated from the rest of the premises, the families either having access to, or living in, the sick-rooms. In 6 of the houses no means to prevent the spread of infection were being taken.

11 occupants of the infected houses were employed at shops, etc., or in occupations elsewhere, as shewn on page 34.

The following business was carried on on infected premises whereby infection was liable to be communicated to customers :—

Business, &c., carried on on Infected Premises, &c.	No. of		Remarks made at date of Inquiry.
	House-holds.	Cases.	
General Shop	1	1	Family had access to sick-room, and no precaution was being taken.

SCARLET FEVER.

The undermentioned details refer to Scarlet Fever during the year 1893 :—

Scarlet
Fever.

Fresh cases :—

In 347 households—single cases	347
„ 83 „ 2 cases each	166
„ 27 „ 3 „ „ „ „ „	81
„ 5 „ 4 „ „ „ „ „	20
„ 5 „ 5 „ „ „ „ „	25
„ 4 „ 6 „ „ „ „ „	24

663

Fresh cases in 8 Public Institutions, &c. (see p. 32) 30

Total 693

Of the infected houses—

37, or about 8 per cent., consisted of 1 room each.	
145 „ 31 „ „ 2 rooms „	
110 „ 23 „ „ 3 „ „	
179 „ 38 „ „ 4 „ „ (or more).	
<u>471</u>	

In relation to
Households,
&c.

Of the sick-rooms in the 471 different houses infected, no less than 172 are returned as being not at all isolated from the rest of the premises, the families either living in the sick-rooms or having direct access to them. In 222 of the houses no means to prevent infection were being taken. In 205 cases removal to Hospital was agreed to and effected.

591 occupants of the houses in question were employed at shops, &c., or in occupations elsewhere, as shewn on page 34.

The following businesses were carried on on infected premises, whereby infection was liable to be communicated to customers :—

Business, &c., carried on on Infected Premises, &c.	No. of		Remarks made at date of Inquiry.
	House-holds.	Cases.	
Medical Practitioner...	2	3	In one case the family had access to the sick-room.
Grocer and Provision Dealer }	3	4	In one case no precaution was being taken. In two cases the family had access to the sick-room.
Confectioner	4	5	In three cases no precaution was being taken. In two cases the family had access to the sick-room, and in another the patient occupied the living room. In one case the business was voluntarily suspended.
Washing done	2	3	In one case the business was voluntarily suspended; in one case the family had access to, and in one case lived in, the sick-room. In one case no precaution was being taken.
Hairdresser	1	2	House and shop had separate entrances.
Public House	1	1	...
Tailor	2	3	Rooms opening off same stairs as infected premises used as tailors' workshops.
Stationer	2	3	In each case the house and shop had separate entrances. In one case the family had access to the sick-room.
Hotel	1	2	...
Caretaker	1	3	Patients occupied living room.
Boot Maker, &c.	2	3	In one case the family occupied the sick-room. The house and shop had separate entrances. No precaution was being taken.
Fish-curer	1	1	House and shop separate entrances. No precaution was being taken.
Greengrocer	1	1	House and shop had separate entrances. The family had access to sick-room.
Draper	1	2	The family had access to the sick-room.
Dressmaking	1	1	Family had access to sick-room. Business voluntarily suspended.
Private Lodging House	3	3	In each case the family had access to sick-room.
Yeast Dealer	1	1	The family had access to sick-room.
Coal Dealer	1	1	No precaution was being taken, and the family had access to the sick-room.
Paraffin Oil Dealer	1	1	No precaution was being taken, and the family had access to the sick-room.
Sewing done	1	1	No work in at time of inspection.
Dairy	1	1	Family had access to sick-room.
Fishmonger	1	2	...
General Dealer	1	1	Room where goods kept was closed.
Fried Fish Shop	1	1	...

Scarlet Fever in relation to School Attendance.—Of the households infected with Scarlet Fever, 364 contained scholars of one or other of 79 different schools in the City. In 3 of the largest elementary schools, scholars came from upwards of 20 of such households during the year, the largest number of scholars from infected households attending any one school being 24.

In two schools there was infection in the households of its scholars during ten months of the year, and in another during nine months.

Rate of Scarlet Fever in Board Schools.—Through the courtesy of the Clerk to the School Board, Mr. A. Goddard, who has furnished the average daily attendance at each of the Board Schools of the City, the subjoined statement has been prepared, shewing the percentage of households of scholars in which Scarlet Fever was notified to the average number of scholars in each school:—

Board School.						Per cent. of Households infected with Scarlet Fever.
Westmorland Road	...	...	...	..	..	1.2
Arthur's Hill	...	...	...	..	...	1.2
Saint Peter's	...	...	...	...	...	0.6
Byker	...	...	..	...	...	1.2
Bentinck	...	...	...	...	...	2.1
Scotswood Road	..	...	...	...	...	1.1
Royal Jubilee	...	...	...	...	...	1.3
Victoria Jubilee	...	...	...	...	...	0.5
Spital Tongues	...	...	...	...	...	0.9
Diana Street	...	...	...	...	...	0.5
Grafton Street	...	...	...	...	...	1.7
Todd's Nook	...	...	...	...	...	1.8
Blenheim Street	...	...	...	...	...	1.7
Tindall Street	...	...	...	...	..	0.9
Longley Street	...	...	...	...	...	0.3
Chillingham Road	...	...	...	...	...	— *
Ouseburn	...	...	...	...	...	0.1*

As usual circulars have been sent to the principals of the respective schools attended by pupils from houses notified to be occupied by cases of Infectious Disease.

* Opened towards the end of the year.

DIPHTHERIA.*

Diphtheria. The undermentioned details refer to Diphtheria during the year 1893:—

Fresh cases—

In 115 households— single cases	115
„ 10 „ 2 cases each... ..	20
„ 6 „ 3 „	18
„ 1 „ 4 „	4
„ 2 „ 5 „	10
In 2 Public Institution (see Table, page 32) ...	4
TOTAL	171

In relation
to House-
holds, &c.

Of the infected houses:—

8 or about 6 per cent. consisted of 1 room each.	
26 „ 19 „ 2 rooms each.	
30 „ 22 „ 3 „ „	
70 „ 52 „ 4 „ „ (or more).	
134	

Of the sick rooms in the 134 different houses infected, 34 are returned as being not at all isolated from the rest of the premises, the families either having access to, or living in, the sick rooms. In 39 of the houses no means to prevent infection were being taken. In 20 cases removal to the Hospital was agreed to and effected.

162 occupants of the houses in question were employed at shops, &c., or in occupations elsewhere, as shewn on page 32.

The following businesses were carried on on infected premises, whereby infection was liable to be communicated to customers:—

Business, &c., carried on on Infected Premises, &c.	No. of		Remarks made at date of inquiry.
	House- holds.	Cases.	
Grocer & Provision Dealer	1	1	The family had access to the sick-room. House and shop had separate entrances. No precaution was being taken.
Hosier	1	1	Business voluntarily suspended.
Stationer	1	1	Family had access to sick-room.
Private School	1	1	School closed.
Beerhouse	1	1	No precaution was being taken.

* For other particulars see Appendix B, pp. 79-80.

Milk Supply.—The households affected were supplied by a large number of dealers, and there is no reason to suppose that any outbreak was attributable to milk. 12 dairies only supplied milk to more than 1 infected household, viz. :—

6 Dairies	...	...	...	...	2 households each.
4 „	...	...	...	...	3 „ „
1 Dairy	...	...	...	...	4 „
1 „	...	...	...	...	13 „

PUERPERAL FEVER.

The following details refer to Puerperal Fever during the year, ^{Puerperal} 1893 :— ^{Fever.}

Inquiries were made in 3 households containing 3 cases, and a fourth case occurred in a public institution.

Each of the cases was attended by a different Medical Practitioner.

Two of the above cases had also been attended by midwives, who were cautioned against continuing their practice until the lapse of a period of two months after the confinements. This injunction is believed to have been attended to. Compensation for loss of practice was granted by the Sanitary Committee.

CHOLERA, 1893.

The undermentioned details refer to cholera during the year 1893. ^{Cholera}

Fresh Cases.—

In 2 households single cases each	...	...	...	2
In 1 household 2 cases (both fatal)	..	...	...	2
				4

Of the infected houses

1	...	...	consisted of 1 room.
1	...	...	„ 2 rooms.
1 (an oyster shop)	„	4	„
3			

Of the sick-rooms in the different households infected, 3 were not at all isolated from the rest of the premises, the family either having direct access to, or living in the sick-room. In 2 cases no means to prevent spread of infection were being taken at the time of inquiry. In 2 cases removal to Hospital was agreed to and effected.

Four occupants of the infected houses were employed at shops, etc., or in occupations elsewhere, as shewn on page 34.

The following business was carried on on infected premises, whereby infection was liable to be communicated to customers :—

Business, &c., carried on on Infected Premises, &c.	No. of		Remarks made at date of Inquiry.
	House-holds.	Cases.	
Oyster Shop, &c. ...	1	1	

The oysters and other fish were destroyed, and the owner was granted compensation by the Sanitary Committee.

From the Report of the Special Inspectors on persons arriving in British Ports from Foreign Ports infected with Cholera and proceeding to Newcastle-upon-Tyne (May 13th to December 2nd, 1893), it appears that the total number of Names and Addresses of destination received, was 1,166. Of this number 43 addresses given were incorrect. Five of the persons in question were afterwards found, the remaining 38 could not be found. All the persons seen were, so far as could be ascertained, well.

Infectious
Disease in
Public
Institutions,
&c.

INFECTIOUS CASES NOTIFIED IN PUBLIC INSTITUTIONS, &c.

INSTITUTIONS, &c.	Enteric Fever.	Scarlet Fever.	Diph- theria.	Small- pox.	Puer- peral Fever.	TOTAL.
Royal Infirmary	4	12	...	4	...	20
Fleming Memorial Hospital for Sick Children, Moor Edge }	...	3	2	...	...	5
Children's Hospital, Hanover Square	...	1	2	...	...	3
Barracks (Military)	...	1	...	...	...	1
H.M. Prison, Carlisle Square	2	...	..	1	...	3
Westgate Fire Station	...	1	...	..	...	1
Police Station, Arthur's Hill	...	2	...	...	...	2
Union Workhouse	...	9	...	...	...	9
Industrial School	...	1	...	..	...	1
Lying-in Hospital, New Bridge St.	...	...	...	...	1	1
Totals	6	30	4	5	1	46

ISOLATION AND OTHER PREVENTIVE MEASURES ADOPTED.

The inquiry into this has been continued during the year with the following results:—

Isolation
and other
Preventive
Measures in
Infected
Households.

SUMMARY.—CHARACTER OF INFECTED HOUSES.

DISEASE.	DWELLINGS INVADED BY DISEASE.				
	HOUSEHOLDS.			Houses of more than 3 rooms.	Total Households.
	1 room each.	2 rooms each.	3 rooms each.		
Cholera	1	1*	...	1	3
Smallpox	1	5	1	10	17
Typhus	...	2	...	..	2
Enteric Fever	18	30	24	42	114
Puerperal Fever	1	1	...	1	3
Continued Fever	2	5	2	1	10
Relapsing Fever	...	...	...	...	...
Scarlet Fever	37	145	110	179	471
Diphtheria... ..	8	26	30	70	134
Totals	68	215	167	305	754
Rate per cent. to Total ...	9.0	28.6	22.1	40.4	

* Two families in one house of 2 rooms.

Summary of Occupations followed elsewhere by Residents on Infected Premises.

SUMMARY OF OCCUPATIONS IN WHICH PERSONS RESIDING ON INFECTED PREMISES WERE ENGAGED ELSEWHERE AT THE TIME OF INQUIRY.

Occupations (after the Classification in the Census Tables).	Smallpox.	Cholera.	Typhus.	Enteric Fever.	Simple Continued Fever.	Scarlet Fever.	Diphtheria.	Puerperal Fever.	TOTALS.
Government of the Country (Postal Officials, Police, &c.)...	...	...	...	1	..	14	3	...	18
Defence of the Country (Army) ..	..	..	...	1	...	...	1	...	2
Professional Classes, viz. :—									
Schoolmasters and Teachers ...	1	...	...	...	...	4	4	..	9
Medical, &c. ...	...	...	...	2	...	3	..	...	5
Others ..	2	...	...	12	...	11	5	...	30
Domestic Service ...	...	..	...	5	...	15	...	...	20
Commercial Occupations (Travel- lers, Clerks, Agents, &c.) ...	2	...	...	15	1	59	29	...	106
Conveyers of Men, Goods, or Messages ...	2	...	...	20	2	46	16	...	86
Persons engaged in Agriculture, Gardeners, &c. ...	...	...	...	1	...	3	...	...	4
Occupations about Animals ...	2	...	...	...	...	9	...	...	11
Workers and Dealers in Books, Prints, &c. ...	...	...	2	1	1	15	6	1	26
Workers and Dealers in Machines and Implements ...	4	...	...	17	...	73	22	...	116
Workers and Dealers in Houses, Furniture, and Decorations ...	1	1	...	15	...	46	11	...	74
Workers and Dealers in Carriages and Harness ...	...	...	...	...	...	1	1	...	2
Persons employed in Shipyards ...	...	...	...	3	...	7	1	...	11
Workers and Dealers in Tobacco ..	..	..	...	...	...	4	1	...	5
Workers and Dealers in Chemicals and Compounds ...	...	...	...	...	...	2	1	...	3
Workers and Dealers in Food and Lodging (Publicans, Butchers, Provision Dealers, &c.) ..	2	1	...	13	...	39	11	...	66
Workers and Dealers in Textile Fabrics (Drapers, &c.) ..	1	...	..	2	...	10	4	...	17
Workers and Dealers in Dress ...	2	...	1	10	1	33	11	...	58
Do. in Animal	...	...	1	1	...	8	1	...	11
Workers and Dealers in Veget- able Substances (not Food) ...	...	...	...	1	1	3	1	...	6
Workers and Dealers in Mineral Substances (Miners, Black- smiths, &c.) ...	..	...	...	8	...	31	5	...	44
Workers and Dealers in Unspeci- fied Commodities, viz. :—									
Labourers ...	4	2	...	24	1	70	7	...	108
Enginemen and Firemen (un- defined) ...	...	...	...	2	...	6	5	...	13
Hawkers ...	...	...	...	3	...	6	...	...	9
Errand Boys and Girls ...	...	...	...	1	...	6	...	...	7
Managers, Foremen, &c. ...	...	...	...	..	1	9	4	...	14
Others ...	...	...	...	2	...	15	3	..	20
Workers and Dealers in Refuse Matters (Sweeps and Rag Dealers) ..	...	...	...	1	...	3	...	...	4
Without Specific Occupation ...	..	...	...	...	...	3	1	...	4
Occupation not stated ...	2	...	...	4	3	37	8	2	56
Totals ...	25	4	4	165	11	591	162	3	965
Totals of Inquiries Made during the year at Infected Households	17	3	2	114	10	471	134	3	754

Character of the Isolation and other Preventive Measures adopted.—The following Table shews the character of the isolation observed and the extent to which other preventive measures were used by those on whose households infectious sickness was reported during the year :—

Character of the Isolation and other Preventive Measures adopted.

SUMMARY.—ISOLATION OF SICK-ROOMS AND PRECAUTIONS TAKEN, &c.

DISEASE.	Total Households Infect'd	ISOLATION.				No Precautions being taken at time of Inspection	Removal to Hospital (Number of cases as notified.)	Percentage of Cases Isolated in Hospital to Total Notified.
		Good.	Moderate.	Imperfect.	None.			
Cholera ...	3	...	..	1	2	2	2	50.0
Smallpox ...	17	...	2	7	8	11	23	92.0
Typhus ...	2	...	...	...	2	1	2	66.6
Enteric Fever...	114	...	22	57	35	31	54	38.3
Puerperal Fever	3	...	...	...	3	2	...	...
Continued Fever	10	..	2	2	6	6	3	30.0
Relapsing Fever	...	...	...	...	...	...	...	...
Scarlet Fever ...	471	1	62	236	172	222	...	...
Diphtheria ...	134	...	21	79	34	39	205	29.6
							20	11.7
TOTAL ...	754	1	109	382	262	314	309	...
Percentage ...	...	0.1	14.4	50.6	34.8	41.6	...	29.4
CORRESPONDING RETURN FOR THE YEAR 1892.								
Total ...	837	1	142	370	324	381	292	...
Percentage ...	...	0.1	17.0	44.3	38.7	45.5	...	34.9

CITY HOSPITAL FOR INFECTIOUS DISEASES.*

292 patients have been treated at the City Hospital for Infectious Diseases at Walker Gate during the year, including 1 admitted from the Walker Local Board District. The cases were as under :—

Work at the City Hospital for Infectious Diseases.

Removed to Hospital on notification as		After observation proved to be												
	No. of Cases.	Scarlet Fever.	Enteric Fever.	Continued Fever.	Diphtheria.	Typhus.	Measles.	Tonsillitis.	Pulmonary Phthisis.	Debility.	Constipation.	Febricula.	Peritonitis.	Gastritis.
Scarlet Fever ...	206	202	..	..	...	...	...	2	1	...	...	...	...	...
Enteric Fever ...	†55	...	47	...	...	...	...	...	2	1	2	1	1	...
Continued Fever	3	...	1	2	...	...	...	...	...	...	...	...	1	1
Diphtheria ...	20	...	...	...	15	...	2	2	...	...	...	...	...	...
Typhus ...	2	...	1	...	...	1	...	...	...	...	...	...	...	...
Measles ...	6	...	...	...	...	...	6	...	...	...	...	...	...	...
TOTALS ...	292	202	49	2	15	1	8	4	1	2	1	2	1	1

* For other details see Appendix A, Table XI.

† One of these was admitted from Walker Local Board District.

SMALLPOX HOSPITAL.

Smallpox
Hospital.

23 patients have been admitted to the Moor Smallpox Hospital during the year. In addition to these, one case removed as Smallpox, was found on admission to be suffering from Measles, and was at once removed to the City Hospital for Infectious Diseases, Walker Gate. (See Appendix A., Table XIA.)

CHOLERA HOSPITAL.

2 patients have been admitted to the Cholera Hospital during the year. (See Appendix A., Table XIB.)

NOTIFIED CASES OF INFECTIOUS DISEASE REMOVED TO THE SMALLPOX AND CHOLERA HOSPITALS, TOWN MOOR, AND THE CITY HOSPITAL FOR INFECTIOUS DISEASES, WALKER GATE, DURING 1893.

	No. of cases Removed.	Rate per cent. of cases re- moved to cases notified in the same form of practice.
In private practice ...	123	16·2
In Dispensary practice ..	120	72·7
In public practice (including Dispensary) ...	186	63·7

Expense of
Mainten-
ance of
Patients.

Expense of Maintenance.—Of the patients admitted, the expense of maintenance is charged as under :—

	Cases.
To the Sanitary Authority ...	291
To private guarantors (General Wards) ...	18
„ „ (Private Wards) ...	8
Total ...	317

BURIAL OF CORPSES.

Burial of
Corpses
under Local
Act.

Under the 47th Section of the “Newcastle-upon-Tyne Improvement Act, 1882,” Orders of Justice have been obtained during the past year as follows :—

For Burial of Corpses from rooms in which persons live or sleep ..	19
„ „ „ Royal Infirmary ...	9
Total ...	28

SUMMARY OF REPORTS MADE DURING 1893.

The following, among other matters, have been brought before the Sanitary Committee during the year :—

Summary of
Reports, &c.
made during
the year.

ZYMOTIC DISEASES.

	DATE.
Scarlet Fever in connexion with Dairy Farms (South Gosforth and Ryal)	Jan. & Feb.
„ Case removed from Tynemouth	July.
„ in Hamilton Street	Sept.
„ Reports	Oct.
Smallpox at the Workhouse	Jan.
„ at the Royal Infirmary	Jan., Feb., and Aug.
„ at Common Lodging Houses (Cowgate, Half Moon Yard, Bigg Market, and Silver Street)	Feb., April, & Aug.
„ in Kenilworth Road	March.
„ in Denmark Street	April.
„ in connexion with Sangers' Circus	April and May.
Exposure of Case of Smallpox	April.
Smallpox in Leazes Lane	May.
„ and Spread of Infection by Vagrants—Reports, &c. May, June, July, & Dec.	
Puerperal Fever in Midwife's Practice	April and Oct.
Enteric Fever in connexion with a Dairy Farm in Dumfriesshire	April and May.
Enteric Fever in Chapel Lane and White Boar Entry (Housing of the Working Classes Act, 1890)	Aug.
Measles—Local Government Board Inquiry	Jan.
„ in Wesley Street	„
Notification of Measles (Reports on)	April and May.
Cholera on the Tyne (s.s. “Myrtle Branch”)—Death	June.
„ in Conyers Road (2 fatal cases), Nelson Street, and Drury Lane	Sept. and Oct.
„ Precautions—Circular respecting Water to Manufactories	Sept.
Choleraic Diarrhoea Report	Sept.
Diphtheria Reports	April and Oct.
Typhus in Stowell Street and Elswick East Terrace	May.
Ophthalmia in Board Schools	Oct., Nov.

LOCALITIES.

Derwent Place Sewer	Jan.
Mackford's Entry	May.
Ford's Court, Byker Bank... ..	„
All Saint's Cemetery	Aug.
Public Conveniences	Nov. and Dec.
Pitman's Row, Forth Banks, &c... ..	Dec.
Cellar Dwellings in Blandford and Blenheim Streets	„
Churchill Street	„

SUMMARY OF REPORTS.—*Continued.*

GENERAL.

	DATE.
Appointment of Caretakers for Smallpox Hospital	March.
Telephone for Smallpox and Cholera Hospitals... ..	July and Sept.
Tallow Melting Works, Mushroom Quay	April.
Bye-Laws for Tallow Melting Works	"
Maintenance of Patients in Hospital	"
Appointment of Assistant Inspectors	May, Oct., & Dec.
Furnishing of Cholera Hospital	May.
Appointment of Caretakers for Cholera Hospital	Aug.
Appointment of Resident Medical Assistant for City Hospital for Infectious Diseases	July.
Water Supply for City Hospital for Infectious Diseases ..	Sept.
Disinfection of Bedding from Walker Local Board District ...	Oct.
Disinfection of Bedding	Nov.
Tuberculous Beef from Denmark	Sept.
Disposal of Unsound Meat	Nov.
Bacteriological Examination of Water	Sept.
Housing of the Working Classes Act, 1890	Dec.
Analysis of Food Samples	"
Fumigation of Tenement Houses after infectious disease, impracticable, &c., &c.	Fortnightly Returns.

General
Work of the
Health
Department

GENERAL WORK OF THE HEALTH DEPARTMENT.

The Report of Mr. W. H. Wells, Inspector of Nuisances, is given below:—

TO THE MEDICAL OFFICER OF HEALTH.

SIR,

I beg to present you my tabular report of the work done in my section of the Health Department during the year ended 31st December, 1893. (See Appendix A., Tables XV. to XIXD.)

Common
Lodging
Houses

Common Lodging Houses.—These houses have been fairly well conducted.

Five of the houses which were the most unfitted for their purpose have by pressure brought to bear upon owners and keepers been voluntarily closed.

Three applications for the registration of new houses have been made. One was approved and registered, two refused.

On my appointment as Common Lodging House Inspector, I found that all the houses were provided with double beds. The keepers are being pressed to remove these, which they are gradually doing, and substituting single ones. In Table XIXD. it will be seen that we have succeeded in getting 135 put in during the year.

Nuisance Abatement.—Table XVI. shows that 679 Nuisance Abatement privies with ashpits have been removed. With the last two years' number this makes a total of 2,071 removed in the three years. The number of privy ashpits removed this year only would, if put together, cover an area of a quarter of an acre, and the total area of fouled brick work, that is to say, sides and bottoms of privies and ashpits, equals over an acre and a half. On this latter basis the total amount of foul bases removed in the three years would equal over four acres and a half.

Tenement Bye-Laws.—These are being vigorously Tenement Bye-laws. enforced with very satisfactory results.

Adulteration Act.—The number of samples submitted Adulteration Act for analysis was 207, as against 178 last year and 144 in the year previous. $13\frac{1}{2}$ per cent. of the samples taken were certified either to be adulterated or of doubtful genuineness. Of the samples of Milk purchased 18 per cent. were certified to be not genuine.

Factory and Workshops Act.—Eighty-seven Workshops Factory and Workshops Act were inspected during the year. Seventy-six sanitary defects were found, as follows:—

Insufficient water-closet accommodation (no separate water-closet accommodation for each sex)	...	...	...	33
Overcrowding	..	...	...	22
General structural sanitary defects	...	...	...	13
Dirty work-rooms...	...	...	...	3
No closet accommodation	...	...	...	7
Defective ventilation	..	..	...	2

Legal
Proceedings

Legal Proceedings.—Table XVII. gives an account of these. As stated in previous reports, every effort is made to induce parties to remedy sanitary defects for which they are responsible before reporting cases to the Sanitary Authority for an appeal to the court; and although in some few cases great forbearance and tact have to be used to obtain abatement of nuisance, &c., without this, yet on the whole the requirements of the Authority have been readily complied with.

In conclusion,

I am, Sir,

Your obedient Servant,

W. H. WELLS,

INSPECTOR OF NUISANCES, COMMON
LODGING HOUSES, &c.

Health Department,

Town Hall,

April 3rd, 1894.

Nuisance
Removal

(a.)—*Nuisance Removal.*—See Appendix A, Tables XV. & XVI.)

Common
Lodging
Houses.

(b.)—*Common Lodging Houses.*—See Appendix A, Tables XIX., XIXA., B., C., and D.)

Bakehouses

(c.)—*The Retail Bakehouses* (44) are reported by the Inspector of Nuisances to be systematically inspected every six months, and at other times*.

Offensive
Trades.

(d.)—*Offensive Trades.*—The following establishments—Triperies (11), Marine Stores (28), Blood Drying (1), Tallow Melting (1), Bone Boiling (2), Chemical Manure Works (2), Fish Curing (9), Knackeries (2), Soap Works (2), Tanneries (3), Fellmongers (2), and Leather Dressing (2)—are reported by the Inspector of Nuisances to be regularly attended to as to cleansing.

Magisterial
Proceedings

(e.)—*Magisterial Proceedings.*—(See Appendix A, Table XVII., page 71.)

* The Wholesale Bakehouses (25) are under the superintendence of the Inspector of Factories.

(f.)—*Analyses under the Food and Drugs Acts.*—(See Appendix A, Food and Drugs Acts. Table XVIII.)

(g.)—*Infectious Disease Inquiry and Disinfection.*—1,051 cases† Disease Inquiry. of notifiable infectious disease have been inquired into by the Special Inspectors, and the houses or rooms connected therewith disinfected, as compared with 1,235 during the year before. The bedding and other infected articles were removed to the Disinfecting Station, and, after purification, returned to the owners. (For List, see Appendix A, Tables XII. and XIII.)

(h.)—*Compensation granted on account of Infection.*—In 6 cases Compensation. compensation has been allowed by the Sanitary Committee to the occupiers of infected houses, for clothing, confectionery, &c., destroyed.

(i.)—*Food Inspection.*—The return of suspected and unwholesome butchers' meat or other flesh examined during the year, is given Food Inspection. in Appendix A, Table XIV.

(j.)—*Inspection of Dairies, Cow-sheds, and Milk-shops.* (See the Dairies, &c. following report.)

(k.)—*Slaughter Houses.* (See the following report.)

Slaughter Houses.

The following is the report of Inspector Hedley :—

TO THE MEDICAL OFFICER OF HEALTH.

SIR,

I beg to report that during the year ending Dec. 31st, 1893, there have been four fatal cases of Anthrax among the cattle in the city. One carcase was buried in enclosed ground, and the others were destroyed at Messrs. Langdale's Manure Works. Disinfectants were freely used at the infected places, and no further spread of the disease occurred. With the above exceptions, the cattle in the city have continued free from Infectious Disease under the Contagious Diseases (Animals) Acts.

The general inspection of Cow-sheds has been regularly attended to as to their sanitary condition; and several necessary repairs have been done at the verbal request of the Inspector.

† In addition to these, many inquiries have been made, beds, &c., removed, and disinfection done in connexion with cases of Measles, &c.

The number of persons who keep cows in the city is gradually decreasing. During 1893, 23 persons have either declined the business, or removed to places outside the city, while five persons have commenced the business during the year. Sixteen places occupied as Cow-sheds were discontinued during the year. Eight were empty, one was pulled down, and the others were being used for various purposes at the close of the year.

There has been no case of Infectious Disease reported in the families of Cow-keepers.

Slaughter Houses.—There has been very little change made in the Slaughter Houses during the year. Two old places have been pulled down, while two places rebuilt at the top of Oaks Place have been licensed as Slaughter Houses by the Sanitary Committee on application being made by the occupiers. One situate in Dispensary Lane has been struck off the list, as it has not been used as a Slaughter House for 12 months. The Knacker's Yard at the Ouseburn, which is in a very dilapidated state, has been put on the six months list with a view of closing the place shortly. This leaves 121 licensed places, or one less than the previous year. Of that number 93 are licensed for 12 months, 17 for six months, and 11 are renewed month by month. At present there is a want of Slaughter House accommodation in both the west and east districts of the city. A company of butchers have bought a site at Byker Hill, and a block of 18 Slaughter Houses is now in course of erection according to plans approved of by the Town Improvement and Sanitary Committee. This will relieve that district for some time to come, but more suitable places are very much needed for the west end, nearly all those places that are on the monthly license list being situate in that district. As a whole the interiors of the Slaughter Houses have been kept fairly clean, but a nuisance is often caused by refuse being put on the ground *near to*, instead of *into*, the carts provided to remove it. Of course this is done when no Inspector is about, and on inquiry the person in

fault cannot be found. One person was summoned for slaughtering on unlicensed premises; he was fined 10s. and costs.

Fish Market, Close.—There is little to note in respect to this Market. Sometimes there are good supplies of Fish, at other times only dry fish are on offer for sale. A considerable quantity of salmon and fresh herrings is brought by steamer from Norway during the season. The Fish have been regularly inspected when on offer for sale. No disease was detected, but the following were found to be stale, and were destroyed, viz. :—

2 Barrels of Ling.	26 Fish (Ling).
18 Barrels of Skate.	582 Boxes of Kipperd Herring.
2 Barrels of Tusk.	220 Boxes of Findon Haddocks.
1 Barrel of Haddocks.	16 Bags Mussels.
4 Barrels of Sprats.	8 Bags Wheelks.

One person has been summoned for selling unsound fish; he was fined 40s. and costs.

Attached is a list of other kinds of suspected and unwholesome provisions examined during the year*. Nothing calls for special remark, except that on two occasions imported dead meat was found to be affected with Tuberculosis. This shows the necessity of all imported meat being examined, which is very imperfectly done under the present system of inspection.

I am, Sir,

Your obedient Servant,

WM. HEDLEY,

INSPECTOR OF CATTLE, PROVISIONS, &c

Health Department,

Town Hall,

Newcastle-upon-Tyne,

April 5th, 1894.

* See Appendix A, Table XIV.

HOUSES BUILT DURING THE YEAR 1893.

House-
building.

The following return of houses built during the year under report is supplied through the courtesy of the City Engineer :—

Newcastle-upon-Tyne.			Houses. Self-contained.	Houses of Two Flats each.
Elswick Township	...	...	31	29
Westgate Township	...	..	—	17
Byker Township	...	...	1	96
Jesmond Township	...	...	32	—
Heaton Township...	...	...	95	131
St. Andrew's Parish	...	..	4	10
St. John's Parish	...	...	—	—
St. Nicholas' Parish	...	...	—	—
All Saints' Parish...	...	...	1	3
			164	286

(for 572 families.)

New Accom-
modation.

New accommodation has thus been provided for 736 families, or at the rate of 5 persons to a family, 3,680 persons, as compared with accommodation estimated for 4,375 persons provided during 1892.

SANITARY ALTERATIONS.

247 plans for minor sanitary works have been examined and approved or otherwise by the Medical Officer of Health and forwarded to the City Engineer for his consideration, as compared with 338 during the previous year.

HENRY E. ARMSTRONG, D.H.Y.,

MEDICAL OFFICER OF HEALTH.

*Health Department,**Town Hall,**Newcastle-upon-Tyne,**30th April, 1894.*

City and County of Newcastle-upon-Tyne, 1893.

APPENDIX A.

TABLE I.

POPULATION (ESTIMATED BY THE REGISTRAR GENERAL TO THE MIDDLE
OF THE YEAR)—197,026.

Registration Sub-districts and City.	Different Quarters of the Year.	Births Registered in 52 Weeks ended 30th December, 1893.			Deaths Registered in 52 Weeks ended 30th December, 1893.		
		Male.	Female	Total.	Male.	Female	Total.
Westgate ...	1st Quarter ...	395	375	770	227	214	441
	2nd „ ...	352	377	729	252	223	475
	3rd „ ...	384	376	760	259	200	459
	4th „ ...	353	360	713	217	239	456
	Total ...	1,484	1,488	2,972	955	876	1,831
St. Andrew's ...	1st Quarter ...	80	60	140	40	36	76
	2nd „ ...	69	60	129	52	41	93
	3rd „ ...	61	60	121	56	38	94
	4th „ ...	59	57	116	49	49	98
	Total ...	269	237	506	197	164	361
St. Nicholas' ...	1st Quarter ...	28	30	58	68	45	113
	2nd „ ...	19	22	41	65	37	102
	3rd „ ...	25	32	57	66	35	101
	4th „ ...	33	18	51	70	38	108
	Total ...	105	102	207	269	155	424
All Saints' ...	1st Quarter ...	123	124	247	64	73	137
	2nd „ ...	122	107	229	57	39	96
	3rd „ ...	90	115	205	78	57	135
	4th „ ...	107	117	224	66	69	135
	Total ...	442	463	905	265	238	503
Byker ...	1st Quarter ...	271	246	517	103	117	220
	2nd „ ...	270	239	509	114	113	227
	3rd „ ...	248	238	486	139	134	273
	4th „ ...	269	253	522	133	139	272
	Total ...	1,058	976	2,034	489	503	992
City ...	1st Quarter ...	897	835	1,732	502	485	987
	2nd „ ...	832	805	1,637	540	453	993
	3rd „ ...	808	821	1,629	598	464	1,062
	4th „ ...	821	805	1,626	535	534	1,069
	Total ...	3,358	3,266	6,624	2,175	1,936	4,111

The Births represent a rate of 33·6, and the Deaths a rate of 20·9 per 1,000 estimated population. The increase of births over deaths is 2,513 this year, as compared with 2,830 in 1892. The increase of population at Midsummer, 1893, over that at Midsummer, 1892, is estimated by the Registrar General at 4,821 persons.

TABLE II.

RETURN OF CAUSES OF DEATH IN THE REGISTRATION SUB-DISTRICTS AND ENTIRE CITY DURING THE 52 WEEKS ENDED 30TH DECEMBER, 1893.

CAUSE OF DEATH.	REGISTRATION SUB-DISTRICTS AND CITY.					
	Westgate.	St. Andrew's.	*St. Nicholas.	All Saints.	Byker.	CITY.
I.—SPECIFIC, FEBRILE, OR ZYMOTIC DISEASES.						
1.— <i>Miasmatic Diseases.</i>						
Measles...	138	17	4	23	26	208
Scarlet Fever (Scarlatina) ...	13	...	...	2	3	18
Diphtheria ...	15	1	...	1	9	26
Whooping-Cough ..	23	1	1	2	6	33
Typhus Fever ...	...	...	1	...	...	1
Enteric or Typhoid Fever ...	11	1	3	2	2	19
Influenza ...	14	4	...	1	7	26
2.— <i>Diarrheal Diseases.</i>						
Asiatic Cholera ...	...	...	...	...	2	2
Diarrhœa, Dysentery ..	78	9	4	21	42	154
5.— <i>Veneral Diseases.</i>						
Syphilis ...	1	...	4	5	7	17
6.— <i>Septic Diseases.</i>						
Erysipelas ...	...	1	2	1	4	8
Pyæmia, Septicæmia ...	6	1	4	...	5	16
Puerperal Fever ...	1	...	...	1	...	2
II.—PARASATIC DISEASES.						
Thrush ...	2	...	...	1	3	6
III.—DIETIC DISEASES.						
Starvation and Want of Breast Milk	3	...	...	...	...	3
Chronic Alcoholism, Delirium Tremens ...	5	2	4	3	5	19
IV.—CONSTITUTIONAL DISEASES.						
Rheumatic Fever and Rheumatism of the Heart ...	4	1	2	...	1	8
Rheumatism ...	6	1	2	2	2	13
Gout ...	...	...	...	1	...	1
Rickets... ..	5	...	1	...	...	6
Cancer, Malignant Disease ...	41	12	28	17	25	123
Tabes Mesenterica ...	18	2	1	13	16	50
Tubercular Meningitis, Hydrocephalus ...	27	6	2	8	23	66
Phthisis ...	173	29	27	51	67	347
Other Tubercular and Scrofulous Diseases ...	34	3	9	5	23	74
Purpura, Hæmorrhagic Diathesis ...	1	...	...	...	...	1
Anæmia, Chlorosis, Leucocythæmia	1	...	2	1	2	6
Glycosuria, Diabetes Mellitus ...	8	2	...	2	1	13
Carried forward ...	628	93	101	163	281	1266

TABLE II.—CONTINUED.

RETURN OF CAUSES OF DEATH IN THE REGISTRATION SUB-DISTRICTS AND ENTIRE CITY DURING THE 52 WEEKS ENDED 30TH DECEMBER, 1893.

CAUSE OF DEATH.	REGISTRATION SUB-DISTRICTS AND CITY.					
	Westgate.	St. Andrew's.	*St. Nicholas'.	All Saints'.	Byker.	CITY.
Brought forward	628	93	101	163	281	1266
V.—DEVELOPMENTAL DISEASES.						
Premature Birth	46	9	7	5	58	125
Atelectasis	3	1	...	1	...	5
Congenital Malformations	8	1	1	1	4	15
Old Age	98	22	6	21	42	189
VI.—LOCAL DISEASES.						
1.— <i>Diseases of Nervous System.</i>						
Inflammation of Brain or Membranes	28	6	1	5	23	63
Apoplexy, Softening of Brain, Hemiplegia, Brain Paralysis	104	19	10	17	49	199
Insanity, General Paralysis of the Insane	9	1	1	1	1	13
Epilepsy	6	3	...	1	2	12
Convulsions	49	16	11	15	30	121
Laryngismus Stridulus (Spasm of Glottis)	2	...	...	...	...	2
Paralysis Agitans. Paraplegia, Disease of Spinal Cord	2	1	1	...	2	6
Other Diseases of Nervous System	1	...	1	..	1	3
2.— <i>Diseases of Organs of Special Sense.</i>						
(e.g., Ear, Eyes, and Nose)	...	...	...	1	4	5
3.— <i>Diseases of Circulatory System.</i>						
Endocarditis, Valvular Diseases of Heart	21	1	7	4	13	46
Other Diseases of Heart	130	14	45	34	50	273
Aneurism	...	...	3	...	...	3
Embolism, Thrombosis	1	...	2	...	3	6
4.— <i>Diseases of Respiratory System.</i>						
Croup	3	1	4	1	11	20
Laryngitis	9	3	1	4	1	18
Bronchitis	126	31	16	41	53	267
Pneumonia	103	21	23	36	63	246
Pleurisy	5	1	2	...	1	9
Emphysema, Asthma	6	1	3	2	3	15
Other Diseases of Respiratory System	19	4	4	3	6	36
Carried forward	1407	249	250	356	701	2963

TABLE II.—CONTINUED.

RETURN OF CAUSES OF DEATH IN THE REGISTRATION SUB-DISTRICTS AND ENTIRE CITY DURING THE 52 WEEKS ENDED 30TH DECEMBER, 1893.

CAUSE OF DEATH.	REGISTRATION SUB-DISTRICTS AND CITY.					
	Westgate. †	St. Andrew's.	St. Nicholas.	All Saints.	Byker.	TOTAL.
Brought forward	1407	249	250	356	701	2963
5.— <i>Diseases of Digestive System.</i>						
Dentition	29	4	...	7	11	51
Tonsillitis, &c.	2	1	...	1	...	4
Diseases of Stomach	40	5	6	20	56	127
Enteritis	8	1	4	18	9	40
Peritonitis	13	6	10	4	8	41
Obstructive Diseases of Intestine ...	3	3	5	2	5	18
Ascites	...	1	1	...	...	2
Cirrhosis of Liver	14	5	6	1	6	32
Jaundice and other Diseases of Liver	10	...	6	4	4	24
Other Diseases of Digestive System	11	2	4	1	4	22
6.— <i>Diseases of Lymphatic System.</i>						
(e.g., of Lymphatics and of Spleen)	..	1	...	...	...	1
8.— <i>Diseases of Urinary System.</i>						
Nephritis	12	1	4	1	3	21
Bright's Disease, Albuminuria ...	11	1	1	2	11	26
Disease of Bladder and of Prostate	10	5	4	...	6	25
Other Diseases of the Urinary System	11	4	11	4	5	35
9.— <i>Diseases of Re-Productive System.</i>						
(B) Of Parturition.						
Puerperal Convulsions	...	..	...	2	...	2
Other Accidents of Childbirth ...	11	5	3	3	12	34
10.— <i>Diseases of Locomotive System.</i>						
Caries, Necrosis	5	2	1	1	1	10
Arthritis, Ostitis, Periostitis ...	1	1	1	...	...	3
Other Diseases of Locomotive System	3	...	2	...	1	6
11.— <i>Diseases of Integumentary System.</i>						
(e.g., Carbuncle, Phlegmon, Cellulitis)	2	...	3	1	..	6
Other Diseases of Integumentary System	1	...	1	1	1	4
VII.—VIOLENCE.						
1.— <i>Accident, Negligence, &c.</i>						
Fracture and Contusion	7	3	28	1	12	51
Gunshot Wound	...	...	...	...	2	2
Burn and Scald	3	...	11	2	2	18
Poison	3	...	...	...	2	5
Drowning	4	...	1	3	7	15
Suffocation	7	1	3	1	5	17
Hernia	2	1	3	...	2	8
Deaths consequent on Surgical Operation	...	..	5	...	...	5
Carried forward	1630	302	374	436	876	3618

TABLE II.—CONTINUED.

RETURN OF CAUSES OF DEATH IN THE REGISTRATION SUB-DISTRICTS AND ENTIRE CITY DURING THE 52 WEEKS ENDED 30TH DECEMBER, 1893.

CAUSE OF DEATH.	REGISTRATION SUB-DISTRICTS AND CITY.					
	Westgate. †	St. Andrew's.	*St. Nicholas'.	All Saints'.	Byker.	TOTAL.
Brought forward	1630	302	374	436	876	3618
<i>2.—Homicide.</i>						
Murder and Manslaughter	1	...	...	...	...	1
<i>3.—Suicide.</i>						
Gunshot Wound	...	...	1	...	...	1
Cut, Stab	2	...	1	...	2	5
Poison	2	2	3	1	3	11
Drowning	...	...	1	1	...	2
Hanging	1	...	...	...	3	4
VIII.—DEATHS FROM ILL-DEFINED AND NOT SPECIFIED CAUSES.						
Debility, Atrophy, Inanition	147	31	15	36	70	299
Mortification	4	...	3	1	...	8
Tumour	6	2	2	1	2	13
Abscess....	3	1	3	1	2	10
Hæmorrhage	...	1	...	2	2	5
Found Dead (cause not stated)	4	2	9	8	8	30
Other Causes not Specified or Ill- defined	31	20	12	16	24	104
TOTALS	1,831	361	424‡	503	992	4,111

† Includes Union Workhouse.

* Includes Royal Infirmary.

‡ The number of Deaths is increased by 253 in the Royal Infirmary, 143 of which came to that Institution from beyond the City. In 3 other Infirmary cases the residences are not stated the returns.

NOTE.—The Miasmatic Diseases in Summary of Table II. on the previous page include 26 deaths from Influenza (see page 46.)

TABLE III.

ANNUAL DEATH-RATE FROM ALL CAUSES AND FROM THE SEVEN "CHIEF ZYMOTIC DISEASES" PER 1,000 LIVING IN NEWCASTLE FOR EACH OF THE PAST TWO YEARS, COMPARED WITH THE AVERAGE RATE IN THE LARGE TOWNS OF THE UNITED KINGDOM.

	All Causes.				Seven "Chief Zymotic Diseases."*			
	1892.		1893.		1892.		1893.	
	Average in 33 Towns.	Rate in New- castle.	Average in 33 towns.	Rate in New- castle.	Average in 33 Towns.	Rate in New- castle.	Average in 33 Towns.	Rate in New- castle.
1st Quarter	25·8	23·6	22·0	20·0	2·32	2·10	2·00	1·42
2nd "	19·5	19·3	19·8	20·2	2·55	0·89	2·77	3·21
3rd "	17·9	16·7	21·8	21·6	3·51	1·77	5·42	3·43
4th "	19·4	18·4	22·6	21·7	2·19	1·14	2·55	1·30
Annual Rate...	20·7	19·5	21·5	20·9	2·64	1·48	3·18	2·34

* Including Smallpox, Scarlet Fever, Diphtheria (Typhus, Enteric, and Continued "Fevers"), Measles, Whooping-Cough, and Diarrhœa.

TABLE IV.

THE FOLLOWING TABLE SHEWS THE WEEKLY NUMBERS OF DEATHS FROM CERTAIN DISEASES, LIABLE TO FLUCTUATION, DURING THE 52 WEEKS ENDED 30TH DECEMBER, 1893:—

1893. WEEK ENDED.	Pulmonary Consumption.	Diseases of Respiratory Organs other than Consumption.	SEVEN "CHIEF ZYMOTIC DISEASES."								Total of Seven "Chief Zymotic Diseases."	
			Smallpox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping- Cough.	Fever.				Diarrhea.
								Typhus.	Enteric.	Continued.		
Jan. 7...	11	23	..	5	2	...	...	...	...	...	...	7
" 14...	12	18	...	2	...	...	..	...	...	...	...	2
" 21...	11	13	...	1	1	1	2	...	...	...	...	3
" 28...	12	5	...	4	...	...	1	...	...	...	...	5
Feb. 4...	6	17	...	2	1	...	...	...	...	...	...	3
" 11...	6	9	...	4	1	1	1	...	1	...	...	8
" 18...	11	13	...	3	...	1	1	...	...	...	...	5
" 25...	4	11	...	4	...	...	...	...	...	1	...	5
Mar. 4...	5	10	...	1	...	1	...	...	1	...	1	4
" 11...	7	12	...	4	...	1	...	...	...	...	1	6
" 18...	4	8	...	2	...	...	...	...	1	...	...	3
" 25...	7	12	...	5	...	...	3	...	...	...	2	10
April 1...	5	13	...	6	..	...	...	...	1	...	...	7
" 8...	6	9	...	10	1	...	1	..	...	...	...	12
" 15...	6	9	...	12	...	...	...	...	...	...	...	12
" 22...	5	16	...	13	...	...	...	...	...	...	...	13
" 29...	7	13	...	16	...	...	...	...	...	...	...	16
May 6...	7	18	...	11	...	...	...	...	...	...	...	11
" 13...	11	10	...	13	...	..	...	...	...	...	1	14
" 20...	4	8	...	15	...	...	1	1	1	...	..	18
" 27...	13	8	...	12	..	...	1	..	...	...	...	13
June 3...	5	12	...	11	...	...	1	...	...	...	2	14
" 10...	8	8	...	7	...	...	...	...	...	...	1	8
" 17...	2	8	...	5	1	...	...	...	1	...	...	7
" 24...	2	13	...	6	...	1	1	...	...	...	5	13
July 1...	9	5	...	2	...	1	...	...	...	...	4	7
" 8...	6	14	...	6	...	1	...	...	...	...	3	10
" 15...	10	6	...	3	...	...	...	...	1	...	7	11
" 22...	6	7	...	5	2	1	...	...	...	...	7	15
" 29...	7	9	...	2	...	...	2	...	...	...	11	15
Aug. 5...	4	4	...	2	...	...	1	...	...	...	14	17
" 12...	4	10	...	3	...	...	...	...	2	...	9	14
" 19...	3	7	...	2	...	1	1	...	...	...	9	13
" 26...	10	13	...	1	1	...	...	...	...	...	10	12
Sept. 2...	6	10	...	1	...	1	..	...	...	...	13	15
" 9...	7	8	...	...	1	1	...	...	...	...	8	10
" 16...	3	6	...	...	...	1	...	...	...	...	18	19
" 23...	9	4	...	...	...	...	2	...	1	...	7	10
" 30...	1	15	...	...	1	2	...	...	...	...	3	6
Oct. 7...	4	13	...	...	..	1	..	...	1	...	3	5
" 14...	3	10	...	1	1	...	...	...	...	...	7	9
" 21...	9	8	...	...	...	...	...	...	1	...	1	2
" 28...	12	18	...	...	1	2	...	...	1	...	2	6
Nov. 4...	9	19	...	..	...	...	...	...	...	...	...	...
" 11...	11	23	...	...	1	3	1	...	...	...	1	6
" 18...	7	19	...	3	1	1	2	...	...	...	1	8
" 25...	4	18	...	1	...	...	4	...	1	...	...	6
Dec. 2...	4	21	...	1	..	...	1	...	2	...	...	4
" 9...	5	13	...	1	...	1	2	...	1	...	...	5
" 16...	7	8	...	...	...	...	2	...	...	...	1	3
" 23...	3	14	..	...	2	...	...	...	2	...	...	4
" 30...	7	13	...	...	...	3	2	..	...	...	1	6
Totals...	347	611	...	208	18	26	33	1	19	...	154	459

TABLE V.—AGES AT DEATH.

Periods.	REGISTRATION SUB-DISTRICTS.					
	Westgate.	St. Andrew's.	St. Nicholas'.	All Saints'.	Byker.	Total in City.
Under 1 Year	509	88	58	159	337	1,151
1 Year and under 5 Years..	300	52	36	75	165	628
5 Years " 20 " ...	117	18	57	30	91	313
20 " " 40 " ...	204	49	90	57	100	500
40 " " 60 " ...	292	74	120	86	138	710
60 " " 80 " ...	352	58	59	84	133	686
80 " and upwards ...	57	22	4	12	28	123
Total (all ages) dying } during 52 weeks ended } 30th December, 1893...	1,831	361	424	503	992	4,111

TABLE VI.

BIRTHS AND DEATHS IN THE DIFFERENT QUARTERS OF THE YEARS
1892, 1893.

	BIRTHS.		DEATHS.	
	1892.	1893.	1892.	1893.
First Quarter	1,665	1,732	1,135	987
Second " 	1,743	1,637	929	993
Third " 	1,598	1,629	804	1,062
Fourth " 	1,578	1,626	886	1,069
Totals	6,584	6,624	3,754	4,111

TABLE VII.

DEATHS OF CHILDREN UNDER 1 YEAR AND PERSONS OVER 60 YEARS
IN 1890, 1891, 1892, 1893.

	NUMBER OF DEATHS.							
	Under 1 Year of Age.				Over 60 Years.			
	1890.	1891.	1892.	1893.	1890.	1891.	1892.	1893.
First Quarter	197	257	268	243	234	217	233	193
Second " 	252	243	251	257	227	253	179	176
Third " 	387	346	255	379	188	156	134	194
Fourth " 	281	322	215	272	229	289	178	246
Totals... ..	1,117	1,168	989	1,151	878	915	724	809

TABLE VIII.

DEATHS OF CHILDREN UNDER ONE YEAR OF AGE DURING THE 52 WEEKS
ENDED DECEMBER 30TH, 1893.

CAUSE OF DEATH.	REGISTRATION SUB-DISTRICTS AND CITY.					
	Westgate.	St. Andrew's.	St. Nicholas.	All Saints.	Byker.	TOTAL IN CITY.
I.—SPECIFIC, FEBRILE, OR ZYMOTIC DISEASES.						
1.— <i>Miasmatic Diseases.</i>						
Measles... ..	31	1	...	5	8	45
Scarlet Fever (Scarlatina)	1	...	...	...	1	2
Diphtheria	1	...	...	1	...	2
Whooping-Cough	10	...	...	...	3	13
Enteric or Typhoid Fever	...	...	...	...	1	1
Influenza	1	...	...	...	...	1
2.— <i>Diarrhoeal Diseases.</i>						
Diarrhoea, Dysentery	51	6	3	15	27	102
5.— <i>Venereal Diseases.</i>						
Syphilis	1	...	2	5	6	14
6.— <i>Septic Diseases.</i>						
Erysipelas	...	...	...	...	3	3
Pyæmia, Septicæmia	...	...	...	...	1	1
II.—PARASITIC DISEASES.						
Thrush	2	...	...	1	3	6
III.—DIETIC DISEASES.						
Starvation and Want of Breast Milk	3	...	...	...	...	3
IV.—CONSTITUTIONAL DISEASES.						
Rheumatism	1	...	...	...	...	1
Rickets... ..	1	...	...	...	...	1
Tabes Mesenterica	8	...	1	8	8	25
Tubercular Meningitis, Hydrocephalus	8	1	...	2	7	18
Phthisis	2	...	...	1	...	3
Other Tubercular and Scrofulous Diseases	3	...	2	...	2	7
V.—DEVELOPMENTAL DISEASES.						
Premature Birth	46	9	7	5	58	125
Atelectasis	3	1	...	1	...	5
Congenital Malformations	7	1	1	1	4	14
VI.—LOCAL DISEASES.						
1.— <i>Diseases of Nervous System.</i>						
Inflammation of Brain or Membranes	9	...	...	2	5	16
Convulsions	44	11	10	12	27	104
Other Diseases of Nervous System...	...	...	...	...	1	...
2.— <i>Diseases of Organs of Special Sense.</i> (e.g., Ear, Eyes, and Nose)						
...	...	...	...	...	3	3
Carried forward	233	30	26	59	168	516

TABLE VIII.—CONTINUED.

DEATHS OF CHILDREN UNDER ONE YEAR OF AGE DURING THE 52 WEEKS
ENDED DECEMBER 30TH, 1893.

CAUSE OF DEATH.	REGISTRATION SUB-DISTRICTS AND CITY.					
	Westgate.	St. Andrew's.	St. Nicholas.	All Saints.	Byker.	TOTAL IN CITY.
Brought forward	233	30	26	59	168	516
3.— <i>Diseases of Circulatory System.</i>						
Endocarditis, Valvular Diseases of Heart	...	...	...	...	1	1
4.— <i>Diseases of Respiratory System.</i>						
Croup	1	...	...	...	1	2
Laryngitis	2	1	...	...	...	3
Bronchitis	39	7	2	8	15	71
Pneumonia	30	5	4	10	19	68
Other Diseases of Respiratory System	3	...	...	...	2	5
5.— <i>Diseases of Digestive System.</i>						
Dentition	15	4	...	3	5	27
Tonsillitis, &c.	...	...	...	1	...	1
Diseases of Stomach	22	1	1	15	29	68
Enteritis	3	...	2	11	4	20
Peritonitis	3	2	...	...	...	5
Obstructive Diseases of Intestine ..	...	1	...	...	3	4
Jaundice and other Diseases of Liver	5	...	...	2	1	8
Other Diseases of Digestive System..	6	...	2	1	1	10
8.— <i>Diseases of Urinary System.</i>						
Other Diseases of the Urinary System	1	...	...	...	...	1
9.— <i>Diseases of Re-productive System.</i>						
(B) <i>Of Parturition.</i>						
Other Accidents of Childbirth ..	5	...	1	...	5	11
11.— <i>Diseases of Integumentary System.</i>						
(e.g., Carbuncle, Plegmon, Cellulitis)	2	...	...	...	...	2
Other Diseases of Integumentary System	1	...	...	1	1	3
VII.—VIOLENCE.						
1.— <i>Accident, Negligence, &c.</i>						
Burn and Scald	...	...	1	...	...	1
Suffocation	6	1	3	1	4	15
Hernia	...	...	...	...	1	1
VIII.—DEATHS FROM ILL-DEFINED AND NOT SPECIFIED CAUSES.						
Debility, Atrophy, Inanition ...	122	28	14	33	62	259
Abcess	...	...	...	1	1	2
Hæmorrhage	...	...	...	2	2	4
Found Dead (cause not stated) ...	2	2	1	3	3	11
Other Causes not Specified or Ill-defined	8	6	1	8	9	32
Totals	509	88	58	159	337	1151*

* Representing a rate of 5·8 per 1,000 population at all ages.

TABLE IX

UNCERTIFIED DEATHS IN EACH SUB-DISTRICT DURING THE 52 WEEKS ENDED
30TH DECEMBER, 1893.

ALLEGED CAUSE OF DEATH AS RETURNED TO THE REGISTRAR.	Westgate.			St. Andrew's			St. Nicholas'			All Saints'			Byker.			Total.		
	Under 1 Year.	1 Year and Under 2.	2 Years and Above.	Under 1 Year.	1 Year and Under 2.	2 Years and Above.	Under 1 Year.	1 Year and Under 2.	2 Years and Above.	Under 1 Year.	1 Year and Under 2.	2 Years and Above.	Under 1 Year.	1 Year and Under 2.	2 Years and Above.	Under 1 Year.	1 Year and Under 2.	2 Years and Above.
Premature Birth ...	4	...	...	1	...	...	1	...	...	...	...	...	...	...	...	6	...	...
Excessive Drinking ...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
Convulsions ..	** 7	*2	...	...	...	...	1	...	...	3	...	...	2	...	...	** 13	*2	...
Convulsions arising from Natural Causes.	...	...	...	...	...	...	...	...	...	*1	...	...	*1	...	...	* 2	...	...
Heart Disease...	...	...	...	...	...	*1	...	...	...	...	...	...	...	...	...	...	...	*1
Bronchitis ...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Debility ...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	2	...	...
Accidentally Drowned while bathing ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*1	...	...	*1
Hemiplegia Senile Decay ...	...	...	*1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*1
Believed from Convul- sions ...	...	...	...	...	...	...	...	...	...	*1	...	...	...	...	...	*1	...	...
Some Natural Cause...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Natural Cause, proba- bly Hemiplegia ...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Exhaustion, owing to being prematurely born ..	*1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*1	...	...
Difficult Labour ..	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Apparently from want of proper attention at Birth ..	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Angular Curvature of Spine ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*1	...	...	*1
TOTALS ...	15	2	2	3	...	2	2	...	...	6	...	...	3	...	*2	29	2	6

* The asterisks represent deaths registered on note from the Coroner that no Inquest was necessary.

TABLE X.
ZYMOTIC DISEASES, 1893.

STREET LIST OF CASES AND DEATHS FROM THE UNDERMENTIONED DISEASES.

LOCALITY.	* CASES AND DEATHS FROM						
	Small-pox.	Cholera	Enteric or Typhoid Fever.	Continued Fever.	Puerperal Fever.	Scarlet Fever.	Diphtheria.
Addison road	...	...	...	...	...	1	...
Addison street	...	...	...	...	...	1	...
Akenside hill	...	...	...	...	...	..	1
Albion row	...	...	...	...	...	...	2
Albion row (back)	...	...	...	...	...	1	...
Albion street	...	...	1	...	...	...	...
Alexander street	...	...	...	...	...	4	...
Algernon road	...	...	...	...	...	1	1
Ann street	...	...	1	...	...	...	...
Ashfield terrace east	...	...	...	...	...	1	...
Barker street	...	...	...	...	...	1	...
Barrack road (Barracks)	...	...	...	...	...	1	..
„ square	...	...	...	...	...	2	...
Barrington street	...	...	...	...	...	1	..
Barras bridge	...	...	...	...	...	2	...
Beaconsfield street... ..	...	...	...	...	1*	11	3*
Beaumont street	...	...	...	...	...	1	...
Beamish street	...	...	1	...	...	1	...
Bedford street	...	...	1*	...	...	...	...
Bedford place	...	...	...	...	...	1	...
Beech grove road	...	...	...	...	...	1	...
Belgrave terrace	...	...	...	...	...	...	2
Belvedere street	...	...	1	...	...	1	...
Belsay place... ..	...	...	1	...	...	...	...
Bell street	...	...	...	...	...	3*	...
Bellegrave west	...	...	...	...	...	...	4*
Benton terrace	...	...	1	...	...	...	...
Bermondsey street... ..	...	...	...	...	...	3	...
Bigg Market, Half Moon yard ..	1	...	...	...	...	1	...
Blagdon street, Little	...	...	...	...	...	1+	...
Blandford street	...	...	1	...	...	7	...
Blenheim street	...	...	1	...	...	6	...
Bolingbroke street... ..	...	...	...	...	...	3	...
Boundary street (back)	...	...	...	...	...	2	...
Bowman terrace	...	...	...	...	...	1	...
Brandling place west	...	...	1	...	...	...	...
Brandling pl., Jessamine Cottages	...	...	1	...	...	...	...
Brandling village	...	...	...	...	...	2	...
Brighton grove	...	...	...	...	...	5	4*
Brough street	...	...	...	...	...	...	1
Brougham place	...	...	1	...	...	...	...
Brunel terrace	...	...	...	...	...	2	...
Buckingham street	...	...	3	...	...	1	...

* The asterisks represent deaths and the numerals the total cases in each street.

TABLE X.—CONTINUED.

STREET LIST OF CASES AND DEATHS FROM THE UNDERMENTIONED DISEASES.

LOCALITY.	* CASES AND DEATHS FROM						
	Small-pox.	Cholera	Enteric or Typhoid Fever.	Continued Fever.	Puerperal Fever.	Scarlet Fever.	Diphtheria.
Bulmer street	...	...	1	...	...	3	...
Burdon terrace	...	...	...	...	...	2	...
Burton street	...	...	1	...	...	...	...
Buxton street	...	...	...	...	...	2	...
" Chapel buildings	...	...	...	...	...	1	...
Byker bank	...	...	1	...	...	2	1*
" Brough buildings	...	...	1	1	...	...	...
" Byker buildings..	...	...	...	...	...	1	...
Cambridge street	...	...	...	...	...	1	...
Camden street	...	...	1	...	...	...	...
Campbell street	...	...	...	...	...	1	...
Cardigan terrace	...	...	...	...	...	4	1*
Carloli square (H. M. Prison)	1	...	2	...	...	...	...
Cannon street	3	...	...	...	...	7	...
Canada street	...	...	1+	...	...	1*	...
Carloli street (Cross)	...	...	...	...	...	1	...
Centre street	...	...	...	...	...	2	...
Chapel street	...	...	...	...	...	1	...
Charles street	...	...	...	...	...	4	1*
Charlotte street	1	...	...	...	...	...	...
Chatham place	...	...	2+	...	...	4	...
Chester street	...	...	...	...	...	1	...
Chester crescent	...	...	...	...	...	1	...
Chillingham road	...	...	1	...	...	...	2
Chimney mills	...	...	...	...	...	1	1
Churchill street	...	...	...	...	...	1	2
Church street	...	...	...	...	...	1	...
Church walk	...	...	...	...	...	1	...
City road	...	...	...	...	...	1*	1
" Industrial Schools	...	...	...	...	...	1	...
" Soaphouse lane	...	...	2	...	...	...	...
Claremont place	...	...	1	...	...	1	...
Clarence street	...	...	...	...	...	1	1
Clayton park square	...	...	...	...	...	3	...
Clayton street	...	...	...	...	...	2	...
Clifford street	...	...	...	...	...	5	2
Clive terrace	...	...	...	...	...	1	...
Close, Redheugh stables	...	...	...	...	...	4	...
" Dyers court... ..	...	...	1	...	...	...	...
Cloth Market, Drury lane	...	1	...	...	...	...	...
Clumber street	...	...	...	...	...	2	...
Conyer road... ..	...	2**	2*	...	...	4	...
Cook street	...	...	...	...	...	1	...
Cookson street	...	...	...	...	...	2*	...
Copland terrace	...	...	...	...	...	3	...
Cottenham street	...	...	...	...	...	1	...
Corbridge street	...	...	...	...	...	...	1*
Cowgate	1	...	...	...	...	...	...
Cromwell street	1	...	...	...	...	2*	1*
Crossley terrace	...	...	...	...	...	...	1
Croydon road	...	...	...	...	...	3	...

* The asterisks represent deaths and the numerals the total cases in each street.

TABLE X.—CONTINUED.

STREET LIST OF CASES AND DEATHS FROM THE UNDERMENTIONED DISEASES.

LOCALITY.	* CASES AND DEATHS FROM						
	Small-pox.	Cholera	Enteric or Typhoid Fever.	Continued Fever.	Puerperal Fever.	Scarlet Fever.	Diphtheria.
Dale street	...	...	...	...	...	1	...
Dalton street	...	...	1	...	...	...	1*
Day street	...	...	...	...	...	3	1
Derby street	...	...	...	...	...	1*	...
De Grey street	...	...	...	...	...	1	1*
Denmark street	1	...	...	...	...	1	...
Diana street	...	...	...	...	...	1	1
Dilston road	...	...	...	...	...	5	1
Douglass terrace	...	...	...	...	...	1	...
Duke street	...	...	...	...	...	1	...
„ (back)	...	...	...	...	...	3	...
Dunn street... ..	...	...	...	...	...	1	...
„ (back)	...	...	...	...	...	3	...
Dunn terrace, Byker bank	...	...	4	...	...	2	...
Durham street	...	...	...	...	...	1	...
East parade... ..	...	...	...	...	...	3	...
Edgeware road	...	...	...	...	...	1	...
Edward street	...	...	...	...	...	1	1
Eighth avenue	...	...	...	...	...	...	1*
Eldon street	...	...	1	...	...	1	1
Elswick east terrace	...	...	...	...	...	5	1*
„ „ „ Dunn's Cott'gs	...	...	...	...	...	2	...
Elswick road	...	...	1	...	...	...	2*
„ row	...	...	...	...	...	...	...
Enfield road	...	...	1	...	...	...	...
Errington street	...	...	...	...	...	2	...
Eslington terrace	...	...	...	...	...	5	...
„ road	...	...	...	...	...	1	...
Eversley place	...	...	1	...	...	...	...
Fairless street	...	...	...	...	...	...	1
Falconar street	...	...	...	...	...	1	...
Falmouth road	...	...	...	...	...	...	1
Fell street	...	...	...	...	...	1	...
Fenham terrace	...	...	1	...	...	...	...
Fern avenue	...	...	...	...	...	1	1
Fifth avenue	...	...	1	...	...	...	...
Forth banks, Royal Infirmary	5	...	4**†	...	...	12	...
„ Pitman's row	...	...	...	...	...	3	1†
„ Wallis' yard	...	...	...	...	...	1	...
Framlington place	...	...	...	...	...	1	...
Franklin street	...	...	...	...	...	1	2
Friars	...	...	1†	...	...	3	...
Friars green... ..	...	...	1	...	...	...	...
Garden street	...	...	...	...	...	...	1
Garth heads, Industrial dwellings	...	...	2	...	...	3	...

* The asterisks represent deaths and the numerals the total cases in each street.

TABLE X.—CONTINUED.

STREET LIST OF CASES AND DEATHS FROM THE UNDERMENTIONED DISEASES.

LOCALITY.	* CASES AND DEATHS FROM						
	Small-pox.	Cholera	Enteric or Typhoid Fever.	Continued Fever.	Puer-peral Fever.	Scarlet Fever.	Diph-theria.
George's road	...	...	...	...	...	3	...
George street	...	...	1	...	...	8	1
„ (back)	...	...	...	...	...	...	1
Gibson street	...	...	...	...	...	5	1*
„ Victoria market	...	...	...	...	...	...	1
Glasshouse street	...	...	2+	...	...	...	...
Gloucester road	...	...	...	...	...	1	2
Gloucester street	...	...	...	...	...	1	1
Gloucester terrace	...	...	...	...	...	2	3
Gluehouse lane	...	...	1	...	...	4	1
Glue terrace	...	...	...	...	...	7*	...
Gosforth street	...	...	...	...	...	2	...
Grace street... ..	...	...	...	...	...	...	1
Grosvenor place	...	...	...	...	...	2	1
Grosvenor road	...	...	1	...	...	1	...
Grove street	...	...	...	...	...	2	...
Haldane terrace	...	...	...	...	...	2	...
Hamilton street	...	...	...	...	...	15	3
Hamond street (back)	...	...	...	...	...	2	...
Handyside street	...	...	1	...	...	...	...
Hanover street (back)	...	...	...	...	...	1	...
Hanover square	...	...	...	...	...	2	...
Hanover square (Children's Hospital)	...	...	...	...	...	1	2
Harbottle street	...	...	...	...	...	2	...
Hartington street	...	...	...	...	...	5	...
Hawes street	...	...	...	...	...	2	...
Hawes street (back)	...	...	...	...	...	1	...
Hawthorn street	...	...	...	...	...	1	...
„ terrace	...	...	...	...	...	1	...
Haymarket (New Houses)	...	...	...	...	...	1	...
Headlam street	...	...	...	...	...	2	...
Heaton terrace	...	...	...	...	...	1	...
Heaton Park road	...	...	...	...	...	1	2*
Heaton road	...	...	1	...	...	5	...
Henry street	...	...	2	...	...	2	...
Hedley street	...	...	...	...	1	1	...
Hedley place	...	...	...	...	...	2	...
Herbert street	...	...	...	...	...	1	...
Hedley terrace	...	...	...	...	...	...	1*
High bridge... ..	...	...	...	...	...	3	...
High Friar street	...	...	...	...	...	1	...
Hill street	...	...	1*	...	...	2	...
Hindhaugh street	...	...	1*	...	...	2*	1
Holly avenue	...	...	2	...	...	...	...
Hotspur street	...	...	4	1	...	2	...
Howard street	...	...	...	...	...	1	...
Hull street	...	...	...	...	...	8	1
Hull street (back)	...	...	1*	...	...	...	...
Hunter road	...	...	...	...	...	...	3

* The asterisks represent deaths and the numerals the total cases in each street.

TABLE X.—CONTINUED.

STREET LIST OF CASES AND DEATHS FROM THE UNDERMENTIONED DISEASES.

LOCALITY.	* CASES AND DEATHS FROM						
	Small-pox.	Cholera	Enteric or Typhoid Fever.	Continued Fever.	Puerperal Fever.	Scarlet Fever.	Diphtheria.
Isabella street	...	...	...	...	...	2	2
Janet street... ..	...	...	...	...	...	1	1
Jefferson street	...	...	*	...	...	3	2
Jesmond road, Jesmond villas	...	...	...	...	...	1	...
Jesmond road	...	...	1	...	...	...	...
Jesmond vale	...	...	...	1	...	...	...
„ „ Kirsop street	...	...	...	...	...	2	...
„ „ terrace	...	...	...	...	...	1	...
Joseph street	...	...	...	...	...	8	...
John street	...	...	...	...	...	1	...
Kenilworth road	...	...	...	...	...	...	1
Kent street	...	...	...	...	...	1+	...
Kirk street	...	...	...	...	...	2	1
King street	...	...	...	...	...	3	...
Kingsley terrace	...	...	...	...	...	5	1
Kyle place	...	...	...	...	...	1	...
Larkspur terrace	...	...	...	...	...	2	...
Langhorn street	...	...	...	...	...	...	1*
Lawton street	...	...	...	...	...	1	1
Leazes lane	2	...	...	...	...	...	...
„ Leazes court	...	...	...	...	...	...	1
Leazes terrace	...	...	1	...	...	...	...
Liddle road	...	...	1	...	...	1	...
Lily avenue... ..	...	...	...	...	...	2	...
Lisle street	...	...	...	...	...	1	...
Liverpool street	...	...	1	...	...	...	...
Loadman street	...	...	...	...	...	4	3
Longley street	...	...	...	...	...	2	...
Lovaine place	...	...	...	...	...	2	...
Maling street	...	...	3	...	...	...	...
Malcolm street	...	...	4	...	...	4	2
Malvern street	...	...	1	...	...	1	...
Manors, Laidlaw's court	...	...	...	...	...	2	...
Mansfield street	...	...	1	...	...	...	...
Maple street	...	...	1	...	...	...	1
Marlborough street (back)	...	...	...	...	...	2	...
Mawson street	...	...	2	...	...	...	...
Melbourne street	...	...	1	...	...	6	...
Meldon street	...	...	...	...	...	2	...
Meldon terrace	...	...	...	...	...	1	4
Melrose street	...	...	...	...	...	1	...

* The asterisks represent deaths and the numerals the total cases in each street.

TABLE X.—CONTINUED.

STREET LIST OF CASES AND DEATHS FROM THE UNDERMENTIONED DISEASES.

LOCALITY.	* CASES AND DEATHS FROM						
	Small-pox.	Cholera	Enteric or Typhoid Fever.	Con. tinued Fever.	Puer-peral Fever.	Scarlet Fever.	Diph-theria.
Mill lane	...	...	...	...	1	5	...
Mill street	1	...	...	...	...	2	1*
Miller's hill	...	...	1	...	...	...	...
Milton street	...	...	...	...	...	1	...
Mitford street	...	...	...	...	...	3	1*
Molineux street	...	...	4*	...	...	2*	1
Monday street	...	...	...	...	...	3	4*
Monk square	...	...	...	...	...	1	...
Moor View terrace... ..	...	...	...	...	...	2	...
Morley street (late Quarry street)	...	...	...	...	...	...	1
Morpeth street	...	...	...	...	...	10	...
Mowbray Street	...	...	...	...	...	3	...
Napier Street	...	...	...	1	...	...	...
Nelson street	...	1	...	...	...	...	...
New Bridge st., Lying-in Hospital	...	...	...	...	1*	...	...
Newgate street	...	...	1	...	...	...	...
" Hall's court	...	...	...	...	...	1	...
Nesham Street	...	...	...	...	...	1	...
New Mills	...	...	...	...	...	5	...
Noble street	...	...	1	...	...	2	...
Norfolk road	...	...	2	...	...	...	...
Normanton terrace... ..	...	...	1	...	...	1	2
Northbourne street	...	...	1	...	...	8*	2
Norfolk street	1	...	...	...	...	1	...
Northumberland St., Elswick crt.	...	...	...	...	...	2	...
" " Mackford's entry	...	...	...	...	...	...	1†
North Street	...	...	...	...	...	1	...
North road, Fleming Memorial Hospital...	...	...	...	...	...	3	2
Oak street	...	...	...	...	...	3	...
Orchard street, Slater's yard	...	...	2	...	...	...	...
Ord street	...	...	...	...	...	1	...
Osborne avenue	...	...	1	...	...	...	...
Osborne road	1	...	1	...	...	...	...
Otterburn terrace	...	...	1	...	...	...	1
Ouseburn cottages... ..	...	...	1	...	...	...	...
Oxford street	...	...	...	...	...	2	...
Oxnam crescent	...	...	...	...	...	1	2
Pandon	...	...	...	...	...	2	...
Pandon, Blythe's Nook	...	...	...	...	...	1	...
Park road	1	...	...	...	...	1	1
Parker street	...	...	1	...	...	...	...
Pawton Dene terrace	...	...	...	...	...	2	...
Penn street	...	...	1	...	...	1	...
Percy place	...	...	...	...	...	1	...

* The asterisks represent deaths and the numerals the total cases in each street.

TABLE X.—CONTINUED.

STREET LIST OF CASES AND DEATHS FROM THE UNDERMENTIONED DISEASES.

LOCALITY.	* CASES AND DEATHS FROM						
	Small-pox.	Cholera	Enteric or Typhoid Fever.	Continued Fever.	Puerperal Fever.	Scarlet Fever.	Diphtheria.
Percy street, Percy court ...	...	...	...	...	...	...	1
Philip street ...	...	...	...	...	...	3	7
Picton terrace (back) ...	...	...	...	...	...	3	...
Pilgrim street ...	...	...	2†	...	...	3	...
Pink lane ...	1	...	...	...	...	...	...
Pine street ...	...	...	1*	...	...	...	...
Pitt lane ...	...	...	1*	...	...	...	...
Pitt street ...	...	...	3**	...	...	...	...
Pleasant row ...	...	...	...	...	...	1	...
Portland road ...	...	...	2	...	...	4	...
„ street ...	...	...	...	...	...	1	...
„ terrace ...	...	...	...	...	...	2	...
Prudhoe street ...	...	...	...	...	...	1	...
Queen Street ...	...	...	1	...	...	...	...
Raby street... ..	...	...	1	...	...	4	1
Race street ...	...	...	...	...	...	2	...
Railway terrace ...	...	...	1	...	...	2	...
Ramshaw street ...	...	...	...	...	...	7	...
Rede street ...	...	...	...	...	...	1	...
Register street ...	...	...	2	...	...	...	...
Rendel street ...	...	...	...	...	...	3	...
Rendel street (back) ...	1	...	...	...	...	...	...
Richard street ...	...	...	1	...	...	4	...
Richmond street ...	...	...	1	...	...	...	...
River street... ..	...	...	1*	...	...	1	...
Ridley villas ...	...	...	1	...	...	...	...
Robinson street ...	...	...	...	...	...	1	...
Rosedale street ...	...	...	...	...	...	4†	...
„ terrace ...	...	...	...	...	...	1	...
Rothbury terrace ...	...	...	...	...	...	3	...
Russell street ...	...	...	1	...	...	...	...
„ square ...	...	...	1	...	...	...	...
Ryehill ...	...	...	...	...	...	2	...
Salisbury street ...	...	...	...	...	...	1	...
Sanderson road ...	...	...	...	...	...	1	...
Sandgate ...	...	...	...	1	...	...	...
„ Chapel lane ...	...	...	1	...	...	...	...
Sarah street ...	...	...	...	...	...	4	...
Scotswood road ...	...	...	3	...	...	23†	...
Seventh avenue ...	...	...	...	...	...	1	...
Shield street ...	...	...	...	...	...	4	...
Shields road ...	...	...	...	...	...	1	...
Shipley street ...	...	...	...	...	...	1	...
Side ...	1	...	...	...	...	...	...

* The asterisks represent deaths and the numerals the total cases in each street.

TABLE X.—CONTINUED.

STREET LIST OF CASES AND DEATHS FROM THE UNDERMENTIONED DISEASES.

LOCALITY.	CASES AND DEATHS FROM						
	Small-pox.	Cholera	Enteric or Typhoid Fever.	Continued Fever.	Puerperal Fever.	Scarlet Fever.	Diphtheria.
Sidney grove	...	...	...	...	...	8	1
Silver street	2	...	...	...	...	...	...
Simonside terrace	...	...	...	...	...	1	...
South parade	...	...	...	...	...	1	...
South view	...	...	...	...	...	1	1
Spring street	...	...	...	...	...	2	...
Spring Garden lane	...	...	1	...	...	...	...
St. Ann street	...	...	...	...	...	1	...
" White Boar entry	...	...	4	1	...	...	...
St. James' street	...	...	1*	...	...	...	...
St. Mary's street	...	...	...	...	...	...	...
St. Michael's road	...	...	...	...	...	1	...
St. Nicholas' Churchyard... ..	...	...	...	...	...	1	...
Stanhope street	...	...	*	...	...	7	...
Stanley street, Crossby terrace	...	...	1*	...	...	2	1
" Walker road	...	...	1	...	...	...	...
Stannington avenue	...	...	...	...	...	1	...
Stanton street	...	...	1	...	...	11**	9**
Stephen street	...	...	...	...	...	1	...
Stepney bank	...	...	...	...	...	1	...
" " (back)	...	...	...	...	...	1	...
Stepney lane	...	...	...	...	...	7	...
" road	...	...	...	...	...	2	...
Stone street..	...	...	...	...	...	6	6
Stowell street	...	...	2*	...	...	...	...
Stratford villas	...	...	...	...	...	1	...
" road	...	...	...	...	...	1	...
" grove	...	...	...	...	...	1	...
Strickland street	...	...	...	...	...	2	...
Suffolk street	...	...	...	...	...	3**	...
Summerhill terrace	...	...	...	...	...	2	...
Summerhill grove	...	...	...	...	...	1	...
Sunderland steet	...	...	...	...	...	1	...
Swirle	...	...	...	...	...	1	...
Sycamore street	...	...	...	...	...	6*†	1
Sydenham terrace	...	...	...	...	...	1	...
Tamworth road	...	...	...	...	...	7	4
Temperance row	...	...	...	...	...	1	...
Temple street	...	...	...	...	...	3	...
Terrace place	...	...	...	...	...	2	...
Thornborough street	...	...	...	...	...	1	...
Thorpe street	...	...	...	...	...	...	1
Trafalgar street	...	...	...	...	...	3	...
Tulloch street	...	...	...	...	...	...	2*
Tuthill stairs, College yard	...	...	...	...	...	1	...
Tynemouth road	...	...	...	...	...	1	...
Tyneside terrace	...	...	1*	...	...	2	...
Union street	...	...	...	...	...	2	...

* The asterisks represent deaths and the numerals the total cases in each street.

TABLE X.—CONTINUED.

STREET LIST OF CASES AND DEATHS FROM THE UNDERMENTIONED DISEASES.

LOCALITY.	CASES AND DEATHS FROM						
	Small-pox.	Cholera	Enteric or Typhoid Fever.	Continued Fever.	Puerperal Fever.	Scarlet Fever.	Diphtheria.
Victoria square	...	...	1	...	...	...	...
„ street	...	...	...	...	...	...	1*
Villa place, Cross Villa place	...	...	...	...	...	1	...
Vine lane	...	...	...	...	...	2	...
Walker road	...	...	...	...	...	6**	...
Waller street	...	...	...	...	...	...	1*
Wall Knoll	...	...	...	...	...	1	...
Warwick street	...	...	1	1	...	1	1
Waverley terrace	...	...	...	...	...	3	...
Warrington road	...	...	...	...	...	3	4
Water street	...	...	...	...	...	1	...
Wellington street	...	...	...	2	...	2	...
West parade	...	...	...	...	...	1	...
Wesley street	...	...	...	...	...	2	...
Westmorland road... ..	...	...	...	...	...	...	4
„ terrace	...	...	...	...	...	...	1
Westgate hill	...	...	...	...	...	2	...
„ road	...	...	...	...	...	2	1
„ „ Workhouse	...	...	...	...	...	9	...
„ „ Arthur's Hill Police Station	...	...	...	...	...	2	...
„ „ Fire Station	...	...	...	...	...	2	...
Wilfred street	...	...	...	...	...	1	2
William street	...	...	...	...	...	...	1*
Windsor crescent	...	...	1	...	...	...	...
Wolseley road	...	...	...	...	...	1	2
Wylam road	...	...	...	...	...	1	...
TOTAL	25	4	141	10	4	693	171

TYPHUS FEVER—1 case (fatal) in Stowell Street, 2† cases in Elswick East Terrace.

* The asterisks represent deaths and the numerals the total cases in each street.

† Shews deaths occurring in the City Hospital for Infectious Diseases of cases removed from the respective streets.

N.B.—In four cases the deaths only are recorded, the cases of disease having been notified towards the close of 1892.

TABLE XI.

ADMISSIONS TO AND DEATHS AT THE CITY HOSPITAL FOR INFECTIOUS DISEASES
(OTHER THAN SMALLPOX AND CHOLERA) DURING THE YEAR ENDED DECEMBER
31ST, 1893.

DISEASES.	ADMISSIONS.													DEATHS.								
	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Totals	Mar.	April.	May.	June.	Aug.	Sept.	Nov.	Dec.	Totals
Scarlet Fever ...	18	28	16	13	23	8	5	12	15	23	24	17	202	1	1	1	...	...	...	1	1	5
Diphtheria ...	1	1	4	...	1	2	3	...	1	...	...	2	15	...	...	...	1	...	...	...	1	2
Typhus Fever....	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	1
Enteric (or Typhoid) Fever	1	2	1	...	2	3	1	7	7	12	4	9	49†	...	...	1	...	1	2	1	1	6
Contin'd Fever...	...	...	...	...	...	...	1	...	...	1	...	...	2	...	...	...	...	...	...	...	...	...
Measles ...	...	2	1	2	1	1	1	...	...	...	...	...	8	...	...	...	...	...	...	...	...	...
Febricula	...	...	...	...	...	...	...	...	...	1	1	...	2	...	...	...	...	...	...	...	...	...
Nephritis	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
Tonsillitis	...	1	1	...	...	...	...	...	...	2	...	...	4	...	...	...	...	...	...	...	...	...
Phthisis	...	...	1	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	1
Constipation	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...
Peritonitis	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...
Gastritis	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
Chronic Debility (Plumbism)....	...	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...
Debility	...	...	...	...	...	...	...	...	...	...	2	...	2	...	...	...	...	...	...	...	...	...
Nil	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...
Totals	20	35	24	15	28	14	12	20	23	42	31	25	292	2	1	3	1	1	2	2	3	15

The Deaths in the City Hospital for Infectious Diseases, 15 in number, are included in the returns for Walker Local Board District.

† Includes 1 case removed from the Walker Local Board District.

TABLE XIa.
SMALLPOX HOSPITAL.

CASES ADMITTED DURING THE YEAR ENDED DECEMBER 31ST, 1893.

January	...	...	...	...	...	...	4 cases.
February	...	...	...	...	...	...	1 case.
March	...	...	...	...	...	...	1 „
April	...	...	...	...	...	...	1 „
May	...	...	...	...	...	...	7 cases.
June	...	...	...	...	...	...	1 case.
August	...	...	...	...	...	...	8 cases.

Total ... 23* „

* All recovered.

In addition to the above, one case removed as Smallpox was, on admission, found to be Measles, and was at once removed to the City Hospital for Infectious Diseases.

TABLE XIb.
CHOLERA HOSPITAL.

CASES ADMITTED DURING THE YEAR ENDED DECEMBER 31ST, 1893.

October ... 2 cases—both recovered.

TABLE XII.

INFECTED ARTICLES DESTROYED AND REPLACED BY THE HEALTH
DEPARTMENT DURING THE YEAR 1893.

80 Straw Mattresses.	5 Flock Pillows.
4 Straw Beds.	4 Blankets.
1 Straw Bolster.	6 Sheets.
1 Straw Pillow.	1 Rug.
9 Bed Ticks	3 Quilts.
10 Flock Beds.	1 Counterpane.
2 Flock Bolsters.	1 Valance.

INFECTED ARTICLES PURIFIED IN THE DISINFECTING APPARATUS AT THE CITY HOSPITAL FOR INFECTIOUS DISEASES, WALKER GATE, DURING THE YEAR 1893.			
ARTICLES FROM CITY.		HOSPITAL PROPERTY.	
Feather Beds	380	Beds	46
Flock "	562	Mattresses	56
Mattresses	1,505	Pillows	90
Pillows	1,930	Bolsters	17
Bolsters	704	Blankets	271
Blankets	1,263	Rugs	4
Rugs	398	Counterpanes	16
Counterpanes	814	Wearing Apparel (pieces) ..	377
Curtains	457	Sundries	5
Cushions	300		
Hearthrugs	332		
Carpets	527		
Books	17		
Wearing Apparel (pieces) ...	2,499		
Sundries	881		
TOTAL	12,569	TOTAL	882

TABLE XIII.

SUMMARY OF CASES DISINFECTED BY THE OFFICERS OF THE HEALTH
DEPARTMENT DURING THE YEAR ENDED 30TH DECEMBER, 1893.

WARDS.	DISEASE.								TOTAL.
	Cholera.	Small-pox.	Scarlet Fever.	Diphtheria.	Typhus	Enteric or Typhoid Fever.	Continued Fever.	Puerperal Fever.	
Elswick East	3	46	9	...	6	...	...	...	64
„ North	1	54	21	...	7	...	1	...	84
„ South	5	94	11	...	8	...	...	...	118
Arthur's Hill	...	112	48	...	3	...	1	...	164
Westgate North	...	28	4	1	13	2	1	...	49
„ South	5	58	7	2	7	...	...	...	79
St. Andrew's North	2	36	16	...	6	...	...	...	60
St. John's	1	14	2	...	2	...	...	...	19
St. Nicholas'	1	2	9	2	1	...	1	...	16
All Saints' West	3	9	1	...	2	...	...	...	15
„ East	1	49	3	...	19	3	...	...	75
„ North	...	45	3	...	13	1	...	...	62
St. Andrew's South	1	7	1	...	2	...	...	...	11
Jesmond	1	34	6	...	12	1	...	...	54
Heaton	1	51	23	...	18	1	...	...	94
Byker	2	47	14	...	22	2	...	...	87
Total	4	25	693	171	3	141	10	4	1,051
Total Infected Households disinfected during the year									754*

* A large number of disinfections have also been done in connection with cases of Measles, &c.

TABLE XIV.

RETURN OF SUSPECTED AND UNWHOLESOME PROVISIONS INSPECTED
DURING THE YEAR 1893.

PROVISIONS INSPECTED.	Amount of Suspected Provisions Inspected.	CONDITION.		BAD—HOW DISPOSED OF.	
		Fit for Food.	Unfit for Food.	Destroyed by order of Justice.	Destroyed with Owner's consent.
Carcases of Beef ...	127	36	91	14	77
Quarters of Beef ...	52	32	20	...	20
Carcases of Veal ...	71	8	63	...	63
„ Mutton ...	281	96	185	2	183
„ Pork... ..	132	79	53	...	53
Ox Heads... ..	7	...	7	...	7
Ox Tongues	50	...	50	...	50
Plucks (Sheep and Pig)	72	...	72	...	72
Kidneys (Pig)	72	...	72	...	72
Sheep heads	54	...	54	...	54
Rabbits (couples) ..	92	...	92	9	83
Turkeys	281	15	266	209	57
Chickens (stones weight)	20	...	20	...	20
Partridge (brace) ...	40	...	40	40	...
Ptarmigan (brace) ...	41	...	41	...	41
Plums (barrels)	8	...	8	...	8
Pears (baskets) ..	3	...	3	3	...
Cherries (baskets) ...	47	...	47	...	47

Of the above provisions unfit for food, eight carcasses of beef were imported dead meat from Denmark, 18 of the quarters were affected with tuberculosis, the other 14 quarters being in general bad condition, and of very poor quality.

Of the 36 carcasses of beef returned as fit for food 16 of the animals had been slaughtered on account of injuries received. All the bruised parts were cut off and destroyed.

Five persons have been summoned for being the owners of diseased or unsound meat intended for sale as human food. Two were fined £10 and costs each, two £5 and costs each, and one 20/- and costs.

Two persons were summoned for exposing small quantities of unsound fruit for sale. One was fined 2/6 and one 1/-, without costs.

(Signed) WM. HEDLEY,

INSPECTOR.

TABLE XV.

SUMMARY OF NUISANCES FOR THE ABATEMENT OF WHICH NOTICES
HAVE BEEN SERVED DURING 1893.

	District No. 1.	District No. 2.	District No. 3.	District No. 4.	District No. 5.	District No. 6.	District No. 7.	District No. 8.	Totals.
Foul privies and ashpits to replace with water-closets or pail-closets	3	54	58	95	30	406	176	17	839
Cellar dwellings not in conformity with law (to be closed or not used separately as dwellings)...	...	36	2	...	4	3	1	7	53
Rooms over privies (to be closed or privies, &c., removed) ...	1	...	1	1	...	...	...	1	4
Dirty or dilapidated rooms (to be cleaned or repaired) ...	7	15	16	3	18	20	5	47	131
Insufficient privy accommodation (additional water-closets or pail- closets ordered) ..	49	60	7	34	11	11	22	48	242
Foul ashpits not connected with privies (to remove and provide tubs) ...	...	9	32	16	15	7	5	4	88
Defective tubs (to provide new tubs) ...	2	11	5	7	1	12	3	2	43
Insufficient tubs for dry house re- fuse (to provide additional tubs)	3	13	28	4	5	3	...	4	60
*Defective water-closets ...	28	79	54	27	40	12	11	56	307
*Water-closets without water supply ...	1	3	12	...	6	1	...	12	35
*Choked water-closets (mostly served on tenants) ..	41	64	80	33	55	26	16	84	399
*Dirty water-closets (all served on tenants) ...	11	16	19	1	15	7	2	20	91
+Defective pail-closets ...	25	24	5	43	19	119	167	66	468
+Dirty pail-closets (all served on tenants) ...	2	2	6	2	3	11	10	9	45
Smoke nuisances (to abate) ...	2	1	7	2	2	2	2	1	19
Overcrowding (to abate) ...	8	6	4	4	8	3	2	13	48
Defective pavement in yards and passages (to repair) ...	8	19	28	28	17	42	22	10	174
Dirty yards and passages (to cleanse) ...	19	10	50	12	34	36	22	42	225
Defective drains, sinks, soil-pipes, &c., (to cleanse, repair, or con- struct new drains) ...	92	131	183	261	268	269	85	146	1,435
Broken roofs and water spouting (to repair) ...	23	28	15	23	50	13	85	45	282
Want of water supply (to provide)	9	36	31	26	9	20	13	34	178
Animals, pigeons, and fowls im- properly kept (to remove) ...	1	4	2	5	7	4	15	9	47
Accumulations of manure (to peri- odically remove) ...	20	31	3	15	17	23	1	32	142
Offensive accumulations (to remove)	22	2	4	3	8	13	3	19	74
Unclassified minor nuisances (to abate) ...	6	2	3	4	11	8	1	8	43
Want of sanitary conveniences in public houses (to provide) ...	4	2	2	..	2	...	3	5	18
Totals ...	387	658	657	649	655	1071	672	741	5,490

*To repair or cleanse. †To provide new pans, or to repair the roofs, seats, and floors, or to cleanse.

(Signed) W. H. WELLS,

INSPECTOR OF NUISANCES.

TABLE XVI.

DETAILS RELATING TO CERTAIN WORKS CARRIED OUT IN THE ABATEMENT
OF NUISANCES DURING 1893.

	District No. 1.	District No. 2.	District No. 3.	District No. 4.	District No. 5.	District No. 6.	District No. 7.	District No. 8.	Totals.
Length in yards of old drains removed	435	178	560	334	947	222	202	565	3443
Length in yards of new drains constructed	503	300	750	665	1020	534	530	709	5011
New trapped gullies provided to drains	28	25	46	91	123	79	14	25	431
Combined privies and ash- } privies pits removed / ashpits	2	11	30	94	37	318	161	26	*679
Pail-closets (emptied through the houses) removed... ..	2	11	30	67	34	218	75	21	453
Water-closets provided	3	1	...	9	...	9	...	11	33
Pail-closets	38	23	27	101	62	236	89	70	†646
Foul "container" closets removed, and closets of a better design substituted	...	1	20	15	5	96	87	6	‡230
Dry ash-tubs substituted for dry ash-pits where water-closets existed	16	...	14	1	30	5	...	28	94
Cellar dwellings prevented from being occupied separately	...	1	25	31	12	17	...	1	87
No. of drains tested by smoke	...	10	2	...	1	...	...	7	20
No. of smoke tests made	67	72	115	159	215	165	32	32	857
No. of complaints made at office (verbally or by letter)	92	75	136	159	289	182	36	34	1003
No. of tenement inspections made	83	120	176	136	180	267	38	80	1080
No. of contraventions of Tenement Bye-laws for which notices have been served to obtain remedy	853	4470	1556	1600	1932	3541	3936	3754	21642
Inspections of houses made from complaints received outdoors or nuisances discovered in the district, including a large number of minor nuisances, such as choked drains and dirty yards, the abatement of which was accomplished at the time of visit, and without legal notice	92	164	90	22	203	209	290	340	1410
Inspections to learn if works ordered were in progress... ..	909	672	1545	569	1295	2112	1078	1056	9236
Additional inspections made of works in progress	416	456	554	743	770	656	369	483	4447
Common yards and courts in the worst localities specially visited on Friday afternoons and Saturday mornings to obtain weekly cleansing of same	474	229	317	536	403	315	389	203	2866
Inspections of milk shops	1333	2003	1732	4221	1138	1690	2917	4461	19495
" bakehouses	36	122	40	96	116	267	310	189	1176
" offensive trades	33	32	44	11	53	66	43	16	298
"	74	87	23	32	79	100	86	54	535

* Some ashpits have more than one privy attached.

† 69 of these have been provided on premises where the accommodation was previously insufficient.

‡ 17

|| In addition to this number the District Inspectors have daily had premises cleansed by verbal order.

(Signed) WM. H. WELLS,
INSPECTOR OF NUISANCES.

TABLE XVII.

SUMMARY OF LEGAL PROCEEDINGS TAKEN BEFORE THE MAGISTRATES
FOR THE ABATEMENT OF NUISANCES, &c., DURING THE YEAR, 1893.

Nature of Complaint.	No. of Cases.	How disposed of.	Amount of Penalties Imposed. £ s. d.
Foul privies and Ash-pits.	59	In 1 case a Justice's Order was made with costs, to do the work in 14 days. In 29 cases the work was done before the issue of the summonses. In 29 cases the work was done immediately after the service of the summonses, which were therefore withdrawn.	
Want of Privy Pails, Pails defective, &c.	15	In these cases the work was done immediately after the service of the summonses, which were therefore withdrawn.	
Choked and defective Drains.	17	In 14 cases the work was done immediately after the service of the summonses, which were therefore withdrawn. In 2 cases the work was done after service of Justices' Order. In 1 case the Court made an order to do the work in 14 days, and fined the defendant 5/- per day for 11 days.	2 15 0
Defective Yard Pavements and Unpaved Yards.	4	In 3 cases the work was done immediately after the service of the summonses, which were therefore withdrawn. In 1 case the work was done after service of Justices' Order.	
Defective Roofs and Spouts.	2	In 1 case the work was done immediately after the service of the summons, which was therefore withdrawn. In 1 case the house was closed, the summons was therefore withdrawn.	
Dirty Privies, Passages, Staircases, accumulations of Refuse, &c.	9	In 8 cases the work was done immediately after the service of the summonses, which were therefore withdrawn. In 1 case the Justices made an order to do the work forthwith, with costs.	
Insufficient Water-closet accommodation.	10	In these cases the work was done before the issue of the summonses ordered, the persons having been finally warned.	
<i>Carried forward...</i>	116		2 15 0

TABLE XVII.—CONTINUED.

SUMMARY OF LEGAL PROCEEDINGS TAKEN BEFORE THE MAGISTRATES
FOR THE ABATEMENT OF NUISANCES, &C., DURING THE YEAR 1893.

Nature of Complaint.	No. of Cases.	How disposed of.	Amount of Penalties Imposed.
<i>Brought forward...</i>	116		2 15 0
Cellar Dwellings ...	1	The cellar was closed before the case was heard, summons therefore withdrawn.	
<i>Contravention of Dairies, Cowsheds, and Milkshops Order—</i>			
Using Milkshop as a sleeping apartment.	1	In this case the defendant was fined 10/- and costs.	0 10 0
<i>Common Lodging Houses—</i>			
Allowing persons of opposite sexes to occupy the same sleeping apartment, the said persons not being married, or children under the age of 10.	1	In this case the defendant was cautioned by the Justices.	
Total	119		£ 3 5 0

(Signed) W. H. WELLS,

INSPECTOR OF NUISANCES AND COMMON LODGING HOUSES.

TABLE XVIII.

FOOD AND DRUGS ADULTERATION ACTS.
 SAMPLES TAKEN FOR ANALYSIS DURING THE YEAR 1893.

Articles taken for Analysis.	No. of Samples	Result of Analysis.	Proceedings Taken.
New Milk ...	121	100 Samples genuine. 12 Samples of doubtful genuineness. 2 Samples contained 5% added water each. 1 Sample contained 6% added water. 1 Sample contained 7% added water. 1 Sample contained 11% added water. 1 Sample contained 17½% added water. 1 Sample contained 18% added water. 1 Sample contained 30% added water. 1 Sample contained 30% added water.	Vendors cautioned. { Vendors summoned, one case dismissed with costs, and in the other the Vendor was fined 2/6 and costs. Vendor summoned and fined 10/- and costs. Vendor summoned and fined 2/6 and costs. Vendor summoned and fined 10/- and costs. Vendor summoned and fined 20/- and costs. Vendor summoned and fined 10/- and costs. Vendor summoned and case dismissed for want of contract. Vendor summoned and fined 50/- and costs.
Skimmed Milk }	1	25% of fat abstracted ...	No proceedings ordered.
Condensed Milk }	2	Genuine.	
Malt Vinegar	2	1 Sample adulterated with at least 75% not derived from malt, but is dilute acetic acid from another source. 1 Sample adulterated with at least 20% not derived from malt, but is dilute acetic acid from another source.	{ Vendors summoned, one fined 20/- and costs; the other case dismissed, vendor producing warranty.
Jam ...	2	Both samples genuine.	
Coffee ...	6	All samples genuine.	
Flour ...	3	„ „	
Carried forward }	137		£6 5 0

TABLE XVIII.—CONTINUED.

FOOD AND DRUGS ADULTERATION ACTS.
SAMPLES TAKEN FOR ANALYSIS DURING THE YEAR 1893.

Articles taken for Analysis.	No. of Samples	Result of Analysis.	Proceedings Taken.
Brought forward }	137		£6 5 0
Ginger ...	2	Both samples genuine.	
Pepper ...	2	„ „	
Sugar ...	6	All samples genuine.	
Arrowroot ...	1	Sample genuine.	
Marmalade	1	„ „	
Cocoa ...	1	„ „	
Butter ...	31	All samples genuine.	
Lard ...	5	4 Samples genuine. 1 Adulterated with 12% of beef stearine.	Vendor summoned ; case dismissed.
Baking Powder	3	All Samples genuine.	
Potass Water	3	„ „	
Soda „	1	Sample genuine.	
Lemonade ...	2	Both samples genuine.	
Ginger Ale...	2	„ „	
Fermented } Ginger Beer }	1	Sample genuine.	
Zolakone ...	1	„ „	
Brandy ..	1	„ „	
Rum ...	1	Adulterated with 38% of added water.	Vendor summoned and fined 10/- and costs.
Whisky ..	1	Sample genuine.	
Gin ...	1	„ „	
Beer ...	2	Both samples genuine.	
Tinned } Tomatoes }	1	Of doubtful genuineness.	No proceedings ordered.
Tinned Peas	1	Of doubtful genuineness.	No proceedings ordered.
Total ...	<u>207</u>		Total amount of penalties <u>£6 15s. 0d.</u>

(Signed), W. H. WELLS,
INSPECTOR UNDER THE FOOD AND DRUGS ADULTERATION ACTS.

TABLE XIX.

LIST OF COMMON LODGING HOUSES, THEIR SITUATION, AND THE
NUMBER OF ROOMS AND LODGERS FOR WHICH THEY ARE REGISTERED.
No. 1 Division.

SITUATION.	No. of Houses.	No. of Rooms.	No. of Lodgers.
Akenside Hill	1	4	20
Bird in Bush Yard, Pilgrim St.	2	13	64
Blyth's Nook	1	4	14
Carliol Square	1	2	10
Carliol Street	3	12	56
Cock Inn Yard, Pilgrim Street...	1	3	13
Cowgate	2	11	56
Dog Bank	3	18	73
Eddy's Entry, Sandgate...	1	6	31
Low Bridge	2	19	100
Market Lane	1	5	25
Painters' Entry, Pilgrim Street	1	6	24
Painters' Heugh „ „	1	9	50
Pilgrim Street	3	17	124
Robson's Yard, Pilgrim Street...	1	12	42
Stewart's Court, „ „	1	6	36
Silver Street	5	30	123
Spicer Lane	2	12	61
Stock Bridge	1	7	30
Trafalgar Street	1	8	27
TOTALS	34	204	979

TABLE XIXA.

LIST OF COMMON LODGING HOUSES, THEIR SITUATION, AND THE
NUMBER OF ROOMS AND LODGERS FOR WHICH THEY ARE REGISTERED.
No. 2 Division.

SITUATION.	No. of Houses.	No. of Rooms.	No. of Lodgers.
Back Marlborough Street ...	2	5	10
Clayton Street	2	11	37
Denton Chare	1	8	33
Elswick East Terrace	1	3	8
Friars' Green	1	1	4
Half Moon Yard, Bigg Market...	2	17	73
High Bridge	1	9	33
Monk Street	1	6	24
Newgate Street	1	12	45
Pudding Chare	7	35	120
Phoenix Inn Yard, Newgate St.	1	5	30
Pink Lane	1	4	22
Peel Street... ..	1	1	5
Railway Terrace	1	1	4
Sandhill	3	16	96
Side	5	23	102
Tyneside Terrace	1	2	4
Westgate Road	1	6	35
TOTALS	33	165	685

(Signed) WM. H. WELLS,
INSPECTOR OF COMMON LODGING HOUSES.

TABLE XIXB.

TOTAL NUMBER OF LODGERS OCCUPYING THE COMMON LODGING HOUSES IN THE CITY ON ONE PARTICULAR NIGHT EACH FORTNIGHT DURING 1893.

Division.	Date.	Male.	Female	Total Number of Lodgers.	Total Number of Lodgers for which the houses are registered.	REMARKS.	
No. 1	Jan. 13	540	157	} 1106	1624	Two additional rooms registered.	
" 2	" 13	395	14				
" 1	" 27	502	119	} 1022	1631		
" 2	" 27	386	15				
" 1	Feb. 10	525	132	} 1066	1605	One house closed.	
" 2	" 10	391	18				
" 1	" 24	535	140	} 1078	1603	One house closed and one additional room registered.	
" 2	" 24	389	14				
" 1	Mar. 10	562	141	} 1112	1603		
" 2	" 10	391	18				
" 1	" 24	517	131	} 1053	1603		
" 2	" 24	390	15				
" 1	April 7	519	138	} 1078	1603		
" 2	" 7	406	15				
" 1	" 21	518	109	} 1027	1603		
" 2	" 21	382	18				
" 1	May 6	482	120	} 1005	1603		
" 2	" 6	381	20				
" 1	" 19	525	128	} 1059	1603		
" 2	" 19	383	23				
" 1	June 2	499	126	} 1036	1633	One additional house re-opened.	
" 2	" 2	392	19				
" 1	" 16	482	129	} 1016	1633		
" 2	" 16	393	12				
" 1	" 30	509	120	} 1022	1633		
" 2	" 30	382	11				
" 1	July 14	498	116	} 1000	1651		One additional house re-opened.
" 2	" 14	375	11				
" 1	" 28	511	109	} 1029	1651		
" 2	" 28	399	10				
" 1	Aug. 11	478	118	} 997	1651		
" 2	" 11	393	8				
" 1	" 25	485	129	} 994	1651		
" 2	" 25	364	16				
" 1	Sept. 8	519	118	} 1061	1633	One house closed.	
" 2	" 8	402	22				
" 1	" 22	499	122	} 1036	1633		
" 2	" 22	397	18				
" 1	Oct. 6	494	134	} 1046	1625	Two houses closed.	
" 2	" 6	398	20				
" 1	" 20	503	111	} 1083	1625		
" 2	" 20	444	25				
" 1	Nov. 3	530	116	} 1097	1625		
" 2	" 3	431	20				
" 1	" 17	534	134	} 1122	1625		
" 2	" 17	437	17				
" 1	Dec. 1	532	128	} 1134	1625		
" 2	" 1	457	17				
" 1	" 15	513	104	} 1108	1664		One additional house registered.
" 2	" 15	474	17				
" 1	" 29	515	123	} 1132	1664		
" 2	" 29	474	20				

	Year 1893.	Corresponding Nos. for Year 1892.
Average number of Lodgers per night according to the above table	1058	1045
Highest numbers on any one night	1134	1098
Lowest	994	952
Number of "Lodgers" for which accommodation was provided in the Common Lodging Houses of the City at the end of the year..	1664	1624

(Signed) WM. H. WELLS,

INSPECTOR OF COMMON LODGING HOUSES.

TABLE XIXD.

RETURN SHOWING WHERE SINGLE BEDS HAVE BEEN SUBSTITUTED FOR DOUBLE BEDS IN COMMON LODGING HOUSES DURING THE YEAR 1893.

SITUATION.	Number of Single Beds substituted.
No. 3, Bird-in-Bush Yard, Pilgrim Street ...	34
6, Spicer Lane	30
20, Low Bridge	8
8, Dog Bank	2
212, Pilgrim Street... ..	2
3, Stewart's Court, Pilgrim Street ...	3
4, Stockbridge	1
12, Silver Street	1
17, Cowgate	1
6, Painters' Entry, Pilgrim Street	1
7, Silver Street	1
Robson's Yard, Pilgrim Street	4
Bee Hive Inn Yard, Sandhill	28
33, Sandhill	6
Phoenix Yard, Newgate Street	3
TOTAL	135

Where only one single bed was provided it was so done to abate overcrowding which the previous double bed had permitted.

(Signed) W. H. WELLS,

INSPECTOR OF COMMON LODGING HOUSES.

APPENDIX B.

CITY AND COUNTY OF NEWCASTLE-UPON-TYNE.—DIPHTHERIA AND HOUSE DEFECTS, 1893.

WARDS.	Class of House.	No. of Infected Houses in each Class.	No. of Households Infected, with No. of Cases in each.					Sewery Sink Waste Untrapped.	Bath and Lavatory Waste Untrapped.	Defective Drain.	Drain or Soilpipe not dis- connected from Sewer.	Defectively Trapped or Untrapped Drain.	Defective Soilpipe terminates near windows	Soilpipe not Ventilated.	Defective W.C.	Foul Ashpit or Privy and Ashpit.	Damp Rooms.	Defective Yard.	Choked Drain.	No Defects.	REMARKS.	
			1 Case only.	2 Cases each.	3 Cases each.	4 Cases each.	5 Cases each.															
Elswick East	Self-contained Flats	6	6	...	...	...	1	...	1	...	...	...	...	...	...	1	...	...	...	3	1 case drains not tested. Imported case.	
Elswick North ...	Self-contained Flats	13	10	3	...	...	1	...	4	...	...	2	...	...	...	...	1	...	...	6		
Elswick North ...	Tenement	3	2	1	...	...	...	...	3	...	...	1	...	...	...	1	...	...	...	...		
Elswick South ...	Self-contained Flats	1	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	* Only 1 W.C. to 6 Tenants.	
Elswick South ...	Tenement	1	1	...	...	...	...	...	2	...	...	2	...	...	...	...	...	...	...	3		
Elswick South ...	Tenement	7	6	1	...	...	...	...	1	...	4	...	3	...	1	...	...	...	...	1		
Arthur's Hill	Self-contained Flats	6	6	...	...	...	...	4	...	1	...	...	3	...	1	...	...	...	...	4		
Arthur's Hill	Self-contained Flats	24	17	1	...	...	2	14	2	18	...	...	...	...	1	...	...	...	...	...		
Arthur's Hill	Tenement	1	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...		
Westgate North ...	Self-contained Tenement	1	1	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	In 1 case drains could not be tested.	
Westgate North ...	Self-contained Tenement	3	3	...	...	...	...	...	...	2	...	1	...	1	...	...	...	...	...	...		
Westgate South ...	Self-contained Tenement	2	2	...	...	...	...	...	...	2	...	...	...	1	...	...	...	...	...	...		
Westgate South ...	Self-contained Tenement	5	5	...	...	...	...	...	1	3	1	...	...	...	...	...	...	...	...	1*		
St. Andrew's North	Self-contained Flats	8	6	1	1	...	...	1	1	5	...	...	...	...	1	1	...	...	...	2		
St. Andrew's North	Tenement	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...		
St. John's ..	Tenement ..	2	2	...	...	...	...	...	...	...	...	1	...	...	...	1	1	...	...	1		
St. John's ..	Tenement ..	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
Carried forward		91	76	7	6	...	2	21	8	47	5	7	2	3	1	5	4	3	...	22		

DIPHTHERIA AND HOUSE DEFECTS—Continued.

WARDS.	Class of House.	No. of Infected Houses in each Class.	No. of Households Infected, with No. of Cases in each.					Sculley Sink Waste Untrapped.	Bath and Lavatory. Waste Untrapped.	Defective Drain.	Drain or Soilpipe not dis- connected from Sewer	Defectively Trapped or Untrapped Drain.	Defective Soilpipe.	Soilpipe Ventilator terminates near windows	Soilpipe not Ventilated.	Defective W.C.	Foul Ashpit, or Privy and Ashpit.	Damp Rooms.	Defective Yard.	Choked Drain.	No Defects.	REMARKS.
			1 Case only.	2 Cases each.	3 Cases each.	4 Cases each.	5 Cases each.															
Brought forward		91	76	7	6	...	2	21	8	47	5	7	2	3	1	5	4	3	..	1	22	
St. Nicholas'	Tenement	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	
All Saint's West {	Self-contained Tenement	2	2	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	
All Saint's East ... {	Self-contained Flats	1	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	
All Saint's North {	Tenement	1*	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	
St. Andrew's South.	Self-contained Self-contained	4	4	...	...	...	...	1	1	3	...	1	...	...	...	1	...	...	1	...	2	
Jesmond {	Flats	6	5	...	...	...	...	2	1	4	...	...	...	...	...	1	1	...	...	...	3	
Heaton {	Tenement	11	10	1	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	4	
Byker {	Flats	13*	13	1	...	...	...	...	...	6	...	...	...	...	...	...	2	...	...	...	1	
Byker {	Tenement	1	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	1	...	
TOTALS.....		134	115	10	6	1	2	25	9	64	5	9	2	4	1	8	7	3	3	2	38	
TOTALS {	Self-contained	50	44	4	1	1	...	9	7	18	5	2	2	4	1	5	2	1	2	...	19	
Flats		63	51	5	5	...	2	16	2	36	...	3	...	...	...	1	3	...	...	...	16	
Tenement		21	20	1	...	...	...	...	...	10	...	4	...	...	...	2	2	2	1	2	3	
TOTALS {		134	115	10	6	1	2	25	9	64	5	9	2	4	1	8	7	3	3	2	38	

Houses with defects, 93; houses without defects, 38; houses in which drains were not tested, 4 (1 of which contained a damp room and is included among the houses with defects).

APPENDIX C.

CITY AND COUNTY OF NEWCASTLE-UPON-TYNE.

NOTIFICATION OF MEASLES, &c.*

ANSWERS TO QUERIES.

QUERY 1—*What Districts now Notify Measles?*

Urban Sanitary Districts	...	43	(3 by Local Acts).
Rural	"	15	
Port	"	1	
Total	...	59	

(abstracted from Local Government Board return, dated April, 1891). Districts not included in the foregoing return are Edinburgh, Birkenhead, Hull, and River Tyne, and probably many others.

QUERY 2—*Can it be shewn that Diseases now Notified shew a decrease in cases or deaths?*

Yes. See following tables:—

1880—92.

RETURN OF DEATHS FROM CERTAIN INFECTIOUS DISEASES NOTIFIED.

DISEASES NOTIFIED.	DEATHS.													TOTAL.
	Prior to Notification of Infectious Disease.			Subsequent to Notification.										
	YEARS.			YEARS										
1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.		
Smallpox	...	10	57	60	12	3	...	...	...	...	...	...	1	143
Scarlet Fever	141	52	82	124	156	83	45	38	24	26	24	34	21	850
Diphtheria	4	6	5	11	16	26	19	31	33	29	43	36	36	295
Typhus Fever	...	20	30	24	6	7	...	4	1	2	3	...	...	97
Enteric Fever	30	38	30	42	47	56	34	42	23	16	21	18	9	406
Continued Fever	...	6	1	7	3	4	...	5	4	2	3	...	...	35

* A Form of Queries to which answers were required by the Sanitary Committee.

DEATHS FROM MEASLES.

	YEARS.													TOTAL.
	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	
Measles...	15	35	14	209	15	359	42	211	10	94	7	128*	67	1206

* 96 of these deaths occurred in the fourth quarter, being equal to an annual rate of 2.04 per 1,000 population.

CASES OF INFECTIOUS DISEASE NOTIFIED, 1883-92.

DISEASES.	YEARS.									
	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.
Smallpox ...	493	174	70	5	7	..	...	4	...	4
Scarlet Fever ...	1,152	2,167	1,227	1,004	1,208	749	601	613	785	963
Diphtheria ...	29	76	93	73	90	97	96	181	121	156
Typhus Fever...	90	17	9	1	37	4	7	17	19	...
Enteric Fever ...	216	260	253	205	325	122	136	198	134	97
Continued Fever	45	41	64	44	86	17	31	18	15	8
Puerperal Fever	7	16	11	14	10	5	2	4	5	7
Relapsing Fever	...	...	...	2	...	...	1	1	...	...
Totals ...	2,032	2,751	1,727	1,348	1,763	994	874	1,036	1,079	1,235

DEATHS FROM CERTAIN INFECTIOUS DISEASES BEFORE AND AFTER NOTIFICATION.

DISEASES.	DEATHS.	
	5 Years prior to Notification, 1878-82.	5 Years after Notification, 1888-92.
Smallpox	67	1
Typhus	67	6
Enteric Fever	183	87
Continued Fever...	17	9
Scarlet Fever	778	129
Diphtheria	38	177
Totals..	1,150	409

1893.

DEATHS FROM MEASLES.

	No. of Deaths.	Annual Death-rate per 1,000 population.
Three months ended April 1st, 1893 ...	46	0·93
Six weeks ended May 13th, 1893 ...	74	3·25

QUERY 3—*What amount was paid last year for Notification?*

£135.

N.B.—In an epidemic of Measles, the notification of 500 cases (Private and Public) would cost about £70, or half of what was paid last year for other infectious diseases.

HENRY E. ARMSTRONG, D.Hy.,

MEDICAL OFFICER OF HEALTH.

Health Department,

Town Hall,

Newcastle-upon-Tyne.

25th May, 1893.

APPENDIX D. CITY AND COUNTY OF NEWCASTLE-UPON-TYNE.

CHART

Showing number of Cases of Infectious Disease notified each Month during the 11 years Notification has been in force, 1883—1893.





