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REPORT

OF THE

MEDICAL OFFICER OF HEALTH

ON THE

Sanitary Condition of Mewcastle-upon-Tyne,

WITH

TABULAR RETURNS

OF THE

SICKNESS AND MORTALITY

DURING THE YEAR 1886.



Mawcastle-upon-Tyne:

ANDREW REID, PRINTING COURT BUILDINGS, AKENSIDE HILL.

TO MR. ALD. THOS. WILSON, J.P., CHAIRMAN OF THE SANITARY COMMITTEE OF THE CORPORATION OF NEWCASTLE-UPON-TYNE.

SIR,

I beg to present herewith my Thirteenth Annual Report, viz., that for the year 1886.

Compared with the returns of the previous year the statistics of the present Report shew considerable improvement under several important heads. Thus, the General and Infantile death-rates are lower, whilst the birth-rate is increased; the mortality from the chief Zymotic diseases is four-sevenths what it was in 1885; Chest diseases have been relatively less fatal; the amount of Infectious disease notified by Medical Practitioners under the Act is considerably below that of the year before.

I have the honour to be,

Sir,

Your obedient Servant,

HENRY E. ARMSTRONG,

MEDICAL OFFICER OF HEALTH.

Health Department,

Town Hall,

Newcastle-upon-Tyne,

21st February, 1887.

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CITY AND COUNTY OF NEWCASTLE-UPON-TYNE.

REPORT, 1886.

(A.)—GENERAL STATISTICS.

During the 52 weeks ended 1st January, 1887, 6,103 births and 3,438 Births and Deaths (all deaths have been registered in the City. The births represent a rate of causes). 39.3 and the deaths a rate of 22.2 per 1,000 of a population of 155,117 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 for previous years :-

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

A.D.							Rate per 1,000
1868	0.07	111	***				27.1
1869			***	111			27.2
1870							25.4
1871							32.2
1872							26.3
1873					***		30.1
1874							29.2
1875							26.1
1876							22.7
1877							22.3
1878							23.7
1879							23.5
			***				99.9
1880	111	111	222	***	***		220
1881		434	***	***			21.7
1882					***		23.0
1883							25.4
1884							23.5
1885							26.0
1886							22.2
		100	353		***	111	

The number of births and deaths in the different Registration Subdistricts of the City during 1886 and the previous year is subjoined :-

REGISTRA			BIRT	HS.	DEA'	THS.
SUB-DISTRICTS.			1885.	1886.	1885.	1886.
Westgate			2,514	2,627	1,619	1,508
St. Andrew's			589	609	388	341
St. Nicholas'			257	285	436	400
All Saints'		***	951	976	686	508
Byker			1,537	1,606	855	681
City			5,848	6,103	3,984	3,438

Deaths in Public Institutions. The deaths in Public Institutions during the year under report are as follow:—

DEATHS IN PUBLIC INSTITUTIONS IN THE DIFFERENT REGISTRATION SUB-DISTRICTS
DURING THE 52 WEEKS ENDED 1ST JANUARY, 1887.

REGISTRATION SUB-DISTRICTS.	INSTITUTION.	DEA	THS.
Westgate	 { Workhouse St. Joseph's House	 145 17	162
St. Andrew's	 Magdalene Hospital Hospital for Incurables	 2 3	5
St. Nicholas'	 Infirmary Fever Hospital Children's do	 212 8 4	224
All Saints'	 Nil.		
Byker	 Nil.		
	Total	 -	391

Deaths from Minsmatic 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 follow:—

SUB-DISTR	ICTS.		umber of Deaths from Miasmatic Diseases.			
		1885.	1886.			
Westgate		 201	124			
St. Andrew's		 44	16			
St. Nicholas'		 58	15			
All Saints'		 109	27			
Byker		 177	60			
City		 589	242			

^{*} See Appendix, Table III. In uniformity with the New Classification of causes of death adopted by the Registrar General, Diarrhoal diseases are now excluded from the Miasmatic order of the Zymotic class of diseases.

NUMBER OF DEATHS IN 1886.

The mortality from the "chief Zymotic diseases" * during successive Mortality from chief Zymotic Diseases. seasons of the year is as follows :-

16 57 70 52 52 53 7 70 54 7 55 7 70 54 7 7 7 7 7 7 7 7 7	1 1	of those occurring in the Fever and Small-pox Hospitals to the District from which each nationt
1	1 1	ox Hospitals to the District from which each pa
REGISTRATION SUB-DISTRICTS AND Table (A. S. S. And Qr.	9 1 10 15 4 19 1 3 29 6 39 7 5	ox Hospitals to the District from which each
1	9 1 10 15 4 19 1 3 29 6 39 7	ox Hospitals to the District from which e
1	9 1 10 15 4 19 1 329 6	ox Hospitals to the District from which
16 17 18 19 19 19 19 19 19 19	9 1 1015 4 19 1 329	ox Hospitals to the District from
16 17 18 19 19 19 19 19 19 19	9 1 1015 4 19 1 3 29	ox Hospitals to the District fro
16 17 18 18 18 18 18 18 18	9 1 10 15 4 19 1 3	ox Hospitals to the District
REGISTRATION SUB-DISTRICTS AND RECUS TRACTION SUB-DISTRICTS AND SU	9 1 1015 4 19	ox Hospitals to the Distr
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16 17 18 18 18 18 18 18 18	9 1 1015	ox Hospitals to t
REGISTRATION SUB-DIS	9 1 101	ox Hospitals to
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1 1 1 1 1 1 1 1 1 1	1 1	
Fever and	: :	ributio
Small-pox Measles Scarlet Fever (Scarlatina) Diphtheria Whooping-Cough Typhus Fever Enteric (or Typhoid) Fever Simple Continued and defined Fever	a entery	* Corrected by distribution
Zou Zou Try	ys	200
or de de H	PH	cte
t F F	Jhol J, D	9
asle defined of the ceri	e Chol	1 5
Small-pox Measles Scarlet Feve Diphtheria Whooping-C Typhus Fev Enteric (or defined F	iple Chol	Corr
2727774	Simple Cholera Diarrhœa, Dysentery	* Corr

The most fatal Zymotic diseases have been Diarrhoea, (most prevalent in the third quarter) and Whooping-Cough (most prevalent in the first half of the year).

Bronchitis and Pneumonia.

DEATHS FROM BRONCHITIS AND PNEUMONIA.

A.D. 1886.	R	EGISTRAT	TION SUB-D	ISTRICTS		CITY.	Number in previous year (1885). 146 184 120 128 578
	Westgate (Workhouse)	St. Andrew's,	St. Nicholas' (Infirmary),	All Saints'.	Byker,		
1st Quarter	46	23	9	32	19	129	146
2nd "	56	10	5	18	24	113	184
3rd "	19	6	7	18	12	62	120
4th "	61	9	8	25	17	120	128
Year	182	48	29	93	72	424	578
Number in pre- vious Year (1885)	237	65	40	127	109	578	

INFANT MORTALITY.

Infant Mortality.

The number of Infants dying before the completion of the first year of life is 951, as compared with 1,007, 949, and 919 respectively, in 1885, 1884, and 1883.

REGISTRA SUB-DISTE	Deaths of une 1 year	Children der	Rates per Deaths and		
		1885.	1886.	1885.	1886.
Westgate		 410	396	16:3	15.0
St. Andrew's		 83	98	14.1	16.0
St. Nicholas'		 57	52	22.2	18.2
All Saints'		 188	152	19.8	15.5
Byker		 269	253	17.5	15.8
City		 1,007	951	17:4	15.6

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

	DEA	THS.
	A.D. 1885.	A.D. 1886.
Whooping-Cough	23	52
Diarrhœa, Dysentery	68	95
Inflammation of Brain or Mem-	1000	
branes	14	26
Premature Birth	90	89
Convulsions	129	117
Bronchitis	82	63
Pneumonia	48	36
Debility, Atrophy, and Inanition	217	225
TOTAL	671	703

UNCERTIFIED DEATHS.

That is to say, deaths registered without any proper medical certificate having been given or inquest held, have contributed 94 cases to the general mortality, as compared with 113 during the previous year. See Appendix A, Table IX.

MARRIAGES.

During the year ending March 31st, 1886, the number of marriages Marriages. registered in Newcastle-upon-Tyne* was 1,729, as compared with 1,730 in the previous twelve months, and 1,902 in the year before that.

INFECTIOUS DISEASE INQUIRY.

CASES OF INFECTIOUS DISEASE KNOWN TO THE HEALTH DEPARTMENT.

During the year under report a total of 1,348 cases of Infectious Diseases 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 :-

Notification of Infectious Disease.

			Cases kno Health D	WN TO THE EPARTMENT.
			A.D. 1885.	A.D. 1886.
Small-pox		 	70	5
Typhus		 	9	1
Enteric Fever		 	253	205
Simple Continued	Fever	 	64	44
Scarlet Fever		 	1,227	1,004
Diphtheria		 	93	73
Puerperal Fever		 	11	14
Relapsing Fever		 		2
TOTAL		 	1,727	1,348

The following Tables shew the monthly returns of the diseases above named in the respective Parishes, etc., of the City :-

^{*} Superintendent Registrar's district, which includes the Municipal area and the Townships of Benwell and Fenham.

[†] A Street List of the cases is given in Appendix A, Table X.

Small-pox in different Parishes, etc., during successive months.

SMALL-POX IN NEWCASTLE-UPON-TYNE.

		PAR	ISHES	OR To	DWNSI	HPS.				
A.D. 18	386.	Elswick.	Westgate.	St. Andrew's.	St. John's.	St. Nicholas'.	All Saints'.	Jesmond.	Byker, including Heaton.	Total.
January		 								
February		 								
March		 								
April		 			1					1
May		 								
June		 								
July		 								
August		 		1						1
September		 2								2
October		 		1						2
November		 								
December		 								
Total		 2		2	1					5

Typhus Fever in different Parishes, etc., during successive months.

TYPHUS FEVER IN NEWCASTLE-UPON-TYNE.

			PARI	ISHES	OR To	WNSE	HPS				
A.D. 18	86.		Elswick.	Westgate.	St. Andrew's.	St. John's.	St. Nicholas'.	All Saints'.	Jesmond.	Byker, including Heaton.	Total
January						1					1
February		***									
March											
April											***
May											
June											
T 1											
August											
September											
October											
November											
December											

ENTERIC FEVER IN NEWCASTLE-UPON-TYNE.

			PAR	ISHES	or T	OWNS1	HPS.		
A. D. 1886.	Elswick.	Westgate.	St. Andrew's	St. John's.	St. Nicholas'.	All Saints'.	Jesmond.	Byker, inclu- ding Heaton.?	Total.
January	 			1		1		3	5
February	 2	3	5	1		4		2	17
March	 1	3 3 6	5	1		1			10
April	 2	3	2						7
May	 2 5 1	6	1	2		3			17
June		3	2 2	1	2	4			13
July	 9	3	2			1		2	17
August	 19	2				1		1	28
September	 11		3		1	4	3	3	25
October	 12	5	1			1		6	25
November	 11	7	2	1	1	3		3	28
December	 9	4	1			2		2	18

Enteric Fever in different Parishes, etc., during successive months.

CONTINUED FEVER IN NEWCASTLE-UPON-TYNE.

		PARE	SHES (or To	WNSH	IPS.				
A.D. 18	86.	Elswick.	Westgate.	St. Andrew's.	St. John's.	St. Nicholas'.	All Saints'.	Jesmond.	Byker, including Heaton.	Total
January February March April May June July August September October November December		 1 5 6 3 1 2	 1 1 1 1 1 2 1 1	 1 2 		···· i ··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··	 2 		1 1 3 1 1 	1 3 4 1 4 3 2 7 8 4 2 5

Continued Fever in different Parishes, etc., during successive months. Scarlet Fever in different Parishes, etc., during successive months.

SCARLET FEVER IN NEWCASTLE-UPON-TYNE.

	PAR	ISHES	OR To	OWNSI	TIPS.				
A.D. 1888.	Elswick.	Westgate.	St. Andrew's.	St. John's.	St. Nicholas'.	All Saints'.	Jesmond.	Byker, including Heaton.	Total
January	 . 14	14	7		1	10		12	58
February		15	2	***		7	1	12	54
March		9	3	***	1	4 5	1	12	51
April	1	13	15 7	1	1		4	8	46
May June	 4	9	14	1	6 5	9 8	4	20	57
Teelen	9	19	4		1	10	1	6	45
A	1.5	16	2			25	2	15	71
September	00	40	10	1	***	23	1	21	12
October	43.4	40	14			36	1	40	150
November	4.77	42	5			27	5	53	179
December	00	12	5	6		19	3	29	11:
Total	 215	238	88	9	15	183	24	232	1,00

Diphtheria in different Parishes, etc., during successive months

DIPHTHERIA IN NEWCASTLE-UPON-TYNE.

		PAR	ISHES	or To	OWNSI	HPS.				
A.D. 1	886.	Elswick.	Westgate.	St. Andrew's.	St. John's.	St. Nicholas'.	All Saints'.	Jesmond.	Byker, including Heaton.	Total
January February March April May June July August September October November December		8 10 2 1 3 1 	1	2 1 	 2 1 	2	1	1 1 	1 2 4 3 5 10	13 12 6 4 3 1 2 5 5 4 7

PUERPERAL FEVER IN NEWCASTLE-UPON-TYNE.

		PAR	ISHES	or T	OWNSI	HPS.				
A.D. 1	886.	Elswick,	Westgate.	St. Andrew's.	St. John's.	St. Nicholas'.	All Saints'.	Jesmond.	Byker, including Heaton.	Total
January		 2							1	3
February		 	1							1
March		 								
April		 2								2
May		 								
June		 								
July		 								
August		 								
September		 1							2	3
October		 	2							2
November		 1								2
December		 	1			1				2
Total		 6	4			1			3	14

Puerperal Fever in different Parishes, etc., during successive months.

RELAPSING FEVER IN NEWCASTLE-UPON-TYNE.

		PAR	ISHES	or T	ownsi	HIPS.				
A.D. 18	86.	Elswick.	Westgate.	St. Andrew's.	St. John's.	St. Nicholas'.	All Saints'.	Jesmond.	Byker, including Heaton.	Total
January		 								
February		 								
March		 								
April		 								
May		 								
June		 								
August		 							1	1
September		 								
October		 							1	1
November		 								
December		 								

Relapsing Fever in different Parishes, etc., during successive months.

AGES OF CASES OF INPECTIOUS DISEASE NOTIFIED DURING THE YEAR 1886.

TOTAL.	10	1	205	44	1,004	73	14	63	1,348
Age not stated.	00	1	4	:	25	co	;	- :	36
80 Years and upwards.	:	:	:	:	:	1	:	;	1
60 Years and under 80.	:	:	2	1	-	:	:	:	4
40 Years and under 60.	:	;	16	-	00	1	;	1	22
30. Years and .05 redur	:	:	17	63	12	4	63	:	37
20 Years and under 30.	-	:	33	50	26	2	00	:	18
15 Years and under 20.	:	:	28	9	24	00	4	:	99
10 Years and under 15.	-	:	40	80	116	15	:	:	180
5 Years and onder 10.	:	:	43	11	406	13	:	1	474
4 Years and ander 5.	:	:	11	20	119	10	:	:	140
3 Years and under 4.	1	:	2	4	109	20	:	:	123
2 Years and under 3.	1	:	+	00	80	9	:	:	93
I Year and under 2.	:	:	63	:	54	9	:	:	62
Under I Year.	:	:	:	;	29	4	:	:	999
	:	:	:	:	:	:	:	:	:
ED,	:	:	:	:	:	:	:	:	:
Notir	:	:	:	:	:	:	:	:	:
DISEASES NOTIFIED.	Small-pox	Typhus Fever	Enteric "	Continued "	Scarlet "	Diphtheria	Puerperal Fever	Relapsing "	TOTAL

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

		- 1111																	
TOTAL.	Percentage of Deaths to Cases Notified.	00.4	+ 60	55.6	2.2	9.01	9.6	3.4	9.0	15.4	16.7	27.0	27.3	25.0	:	:			8:1
T	Deaths.	1.0	7.0	14	-	133	10	16	7	10	23	10	9	_	:	:			109
RELAPSING FEVER.	Percentage of Deaths to Cases Notified.		::	:	:	:	:			:		:	***	:	:	:			:
RE	Deaths.			:	:	:	:	:	:	:	:	:	:	:	:	:			:
PUERPERAL FEVER.	Percentage of Deaths to Cases Notified.		****	:	:	:	::	::	:	100-0	62.5	100.0	::	:	:	:			78.6
Pur	Deaths.		:	:	:	:	:	:	:	4	10	07	:	:	:	:			11
Вичитивила.	Percentage of Deaths to Cases Xotified.	1000	0.001	33.3	0.09	. 0.08	0.0f	15.4		535-3	14.3		::	:	:	:			26.0
Dire	Deaths.	,	7	63	00	4	27	62	:	-	-	:	:	:	:	:			13
SCARLET FEVER.	Percentage of Deaths to Cases Xotified.	0.10	0.10	55.5	0.0	7.9	1.1	2.5	6-0	****		:	:	:	::	::			4.0
200	Deaths.		2	12	4	00	C3	6	-	:	:	:	:	:	:	:			45
CONTINUED FEVER.	Percentage of Deaths to Cases Yotified			:		:	:		:	:	:	:	:	***	:				
CON	Deaths.			:		:	:	:	:	:	:	:	:	:	:	:			
ENTERIC FEVER.	Percentage of Deaths to Cases Xotified.			:	:	20-0	9-1	11.6	***	17.9	21.2	17.1	37.5	0.09	:				16.6
E	Destips.		:	:	:	-	-	¥O.	:	10	7	00	9	-	:	:			54
TYPHUS.	Percentage of Deaths to Cases Xotified				:	::	:			:	::	:	::	::	:	:			:
T.	Deaths.		:	:	:	:	:	:	:	:	:	::	:	:	:	:	7716		:
SMALL-POX.	Percentage of Deaths to Cases Notified.			::	:	:	****	:	:	:	****	:		:	::	:			:
SMA	Deaths.			:	:	:	:	:	:	::	:	:	:	:	:	:			:
	Ages.	Hadon I woon	onner i bear	Year and under 2	2 Years and under 3	., ,,	4 5				20 ,, 30	n n	.,		80 Years and upwards	Ages not stated		-	TOTALS

Deaths and Death-rates at different Atalperiods.

INFECTIOUS DISEASES INQUIRY.—Continued. SMALL-POX.

Small-pox.

The undermentioned details refer to Small-pox during the year 1886. Fresh cases—

	olds—sin Instituti		 page	23)	3
	Total	 			5

Each of the infected houses consisted of 2 rooms.

Neither of the sick-rooms in the 2 houses at the date of inspection were at all isolated from the rest of premises, the neighbours and families having access to the sick-rooms. In 1 case no means were being taken to prevent the spread of infection. In 2 cases removal to Hospital was agreed to and effected, including 1 from the Newcastle Infirmary.

2 occupants of the infected houses were employed as shewn on Table at page 25.

In 1 case the patient is believed to have caught the infection by the visit of her brother (from a neighbouring borough), who had been suffering from Small-pox.

TYPHUS.

The only case returned is that of a Nurse in the Fever Hospital, and was not well-defined. The source of the infection was not ascertained.

ENTERIC FEVER.

Enteric Fever.

The undermentioned details refer to Enteric Fever during the year 1886.

Fresh cases-

In 138 hous	eholds-single	cases			138	
99	,, 2 case	es each			44	
	2	**			12	
1	,, 4 case	· · · ·			4	
						198
Fresh cases	in 4 Public	Institu	utions	(see		
Table,	page 23)				•••	7
	Tot	al				205

In relation to Households, etc. Of the infected houses-

24,	or about	15 per	cent.,	consisted of	1	room e	acl	h.	
70,	,,	42	31	,,		rooms	22		
28,	"	17	**	"	3	99	99		
43,	**	26	39	77	4	,,	"	(or more).	
165									

Isolation of Sick-rooms. Of the sick-rooms in the 165 different houses infected, 95 are returned as not at all isolated from the rest of the premises, the family either having direct access to or living in the sick-room. In 90 of the cases no means to prevent infection were being taken. In 36 cases removal to Hospital was agreed to and effected.

189 occupants of the infected houses were employed at shops, etc., or in occupations elsewhere, as shewn on page 25.

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

Residents on Infected Premises occupied elsewhere,

Businesses on Infected Premises.

	No.	of	
Character of Infected Premises, etc.	House- holds.	Cases.	Remarks made at date of inquiry.
Public-houses and beer-houses	4	5	In 1 case no precaution to prevent spread of infection was being taken, and in 3 cases the family had access to the sick-room.
Refreshment Rooms	3	4	In 1 case there was no isolation, and in 2 cases no precautions were being taken.
Small Shops	3	3	In 2 cases there was no isolation. In 1 case no precautions were being taken; and in 2 cases the families had access to the sick-room.
Saddler's Shop	1	2	In this household the family had access to sick-room.
Washerwomen	2	2	In 1 case there was no isolation, and in both cases the family had access to the sick-room. In 1 case no precautions were being taken.
Lodging-house	1	1	In this case there was no isolation or precaution taken.
News Agent	1	1	
Provision Shops	2	2	
Grocer's Shop	1	1	In this case there was no isolation or precaution taken.
Dairies	2	2	In 1 case the family had access to sick-room, in the other there was no isolation; and in both cases no precautions were being taken at the time of inspection.*

The various households affected were supplied with milk by a large number of dealers, and there is no reason to suppose that any outbreak was attributable to milk. 22 dairies only supplied milk to more than one infected household, viz.:—

In relation to Milk Supply.

2	dairies supplied	7	households	affected	(each)
4	"	5	"	33	"
1	"	4	,,	22	39
2	"	3	32	39	13
13	***	2	**	**	**

In cases where more than one household infected had been supplied by

^{*} In one of these cases the patient was removed to Hospital. In the other the patient was unfit to bear removal, and the milk dealer left the premises temporarily. See also Report of Inspector of Dairies and Cowsheds (page 28).

milk from the same dairy, special inquiries were made from time to time. In no instance was the disease attributed to milk.

All the water supplied to the infected households is reported as being obtained direct from the mains of the Water Company. In 1 case the water was complained of.

Enteric Fever in the Scotswood Road district. In consequence of some prevalence of Enteric Fever in the district round Scotswood Road a special report was made in September, of which the chief points are the following:—

In the area bounded by Westmorland Road, Westmorland Terrace, Forth Banks, and the River Tyne, 37 cases of Enteric Fever were notified in 29 households from 1st July to 25th September. Of these 2 died. The milk and water supplies and other usual media of infection were inquired into, with the result that the probable cause of the spread of the disease was the open privy system. The cases occurred in 17 different streets, containing 1,849 habitations. In these streets there were, among other conveniences, 221 privies, the middens of 196 of which were uncovered. The streets having most cases of fever were those in which the open privy middens were most numerous. In many instances the middens are in confined spaces and close to the windows of living rooms. Infected excreta thrown into them are a source of danger to the surrounding population. There are also in the district in question 33 slaughter-houses, 12 cow-houses, 79 stables, and a tripery, the localities of which were shown on a map submitted with the report. The streets most thickly studded with these houses, for cattle and horses, many of which are very close to human dwellings, showed most disease.

CONTINUED FEVER.

Continued Fever.

The undermentioned details refer to Continued Fever during the year 1886.

Fresh cases -

In relation to Households, etc. Of the infected houses-

	or about	16 per	cent.,	consisted of				h.
21,	.,,	57	77	,,	2	rooms	,,	
3,	59	8	19	***	3	12	22	
7,	**	19	11	,,	1	1)	22	(or more).
-								
37								
-								

Of the sick-rooms in the 37 different houses infected, 24 are returned as being not at all isolated from the rest of the premises, the family either

having access to, or living in, the sick-room. In 25 of the houses no means to prevent the spread of infection were being taken. In 10 cases removal to Hospital was agreed to and effected.

Isolation of Sick-rooms.

46 occupants of the infected houses were employed at shops, etc., or occupations elsewhere, as shewn at page 25.

Residents on In-fected Premises occupied else-

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

Businesses on Infected Premises.

	No	of_	
Character of Infected Premises, etc.	House-holds.	Cases.	Remarks made at date of inquiry.
Newspaper and Toy Shop	1	3	No precaution was being taken at time of inquiry to prevent the spread of infection.
Provision Shops	2	5	In 1 case the family had access to the sick-room.
Boot and Shoe Shop	1	1	
Dairy*	1	1	

^{*} See also Report of Dairies' Inspector, page 28.

SCARLET FEVER.

The undermentioned details refer to Scarlet Fever during the year scarlet Fever. 1886.

Fresh cases—

In 405 households-single	e cases				405	
,, 125 ,, 2	cases each				250	
" 1 " (Caravan) 2	,,				2	
E1 9					153	
01 /	,,				124	
7 5	19				35	
1 8	cases				8	
,, 1 ,,	Cases				0	977
						311
Fresh cases in 2 Public Inst						17
Cases in 1886 on premises	s where cas	ses in	1885	have		
already been inquired						10
		To	tal			1,004
the infected houses						

In relation to Households, &c.

Of the infected houses-

71, 0	r about	11	per cent.,	consisted	of 1	room	each.
234,	12	38	22	,,	2	rooms	,,
137,	37	22	19	21	3	11	"
179,	13	29	"	11	4	27	(or more).
621							

Of the sick-rooms in the 621 different houses infected no less than Isolation of Sick-rooms. 342 are returned as being not at all isolated from the rest of the premises, the family either living in the sick-room or having direct access to it. In 353 of the houses no means to prevent infection were being taken. In 44 cases only was removal to Hospital agreed to and effected.

Residents on Infected Premises occupied elsewhere.

Businesses on Infected Premises.

633 occupants of the houses in question were employed at shops, etc., or in occupations elsewhere, as shewn at page 25.

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

	-	of.	
Character of Infected Premises, etc.	House- holds.	Cases.	Remarks made at date of inquiry.
Dairies*	3	5	In 2 cases no precaution to prevent spread of infection was being taken; in one case there was no isolation, and in the other case the family had access to sick-room.
Green Grocery Public-houses and Beer-	1	1	In this case no precaution was being taken.
houses	5	5	In 1 case the access to the sick-room was through the "Snug" used by the public, and in 1 case the family had access to the sick- room.
Boot and Shoe Makers Boot and Shoe Makers	4	5	In 2 cases no precaution was being taken to prevent the spread of infection, and in 1 case there was no isolation, the family having access to sick-room.
and Dressmaking	1	1	The family had access to sick-room.
Dressmaking	1	1	No precaution was being taken.
Marine Stores	1	1	No precaution was being taken and family had access.
Tailoring	2	2	In both cases no precaution was being taken, and in one case there was no isolation and the family and workmen had access to the sick-room.
Hairdressing	1	2	No precaution was being taken.
Washerwomen	1	2	No precaution was being taken; there was no isolation, and the family had access to the sick-room.
Provision Shop	1	2	
Stationer's Shop	1	2	
Billiard Saloon	1	1	
Hardware	1	1	
Small Shops (Confection- ery, etc.)	2	4	In 1 case there was no isolation.
Lodging-house	1	1	In this case there was no isolation.
Drapery Establishment	1	1	The persons connected with the establishment reached their dining-room by the stairs leading to the sick-room.

^{*} See also Report of Dairies' Inspector, page 28.

Scarlet Fever in relation to School Attendance. Of the households Scarlet Fever in infected with Scarlet Fever, 417 contained scholars of one or other of 100 different schools in the City. In four of the largest elementary schools, scholars came from upwards of 20 of such households during the year; the largest number attending any one school being 41 (two instances).

relation to School Attendance.

In one school there was infection in the households of its scholars during every month of the year. In another, such infection occurred during 11 months, and in three others during 9 months.

On 13 different occasions from 5 to 12 families of the scholars of individual schools were infected during the same months, including two schools so affected three times, and one school twice during the year.

DIPHTHERIA.

The undermentioned details refer to Diphtheria during the year 1886. Fresh cases—

Diphtheria

```
In 37 households—single cases
                                                  37
                  2 cases each ...
                                                  10
                                                   3
                  3
                  4
                                                   4
                                                   7
                               ...
Cases in 2 Public Institutions. For particulars
  see Table, page 23
                                Total ...
                                                      73
```

Of the infected houses-

In relation to Households, etc.

```
4, or about 9 per cent., consisted of 1 room each.
12.
                                    2 rooms
            26
                                    3
12.
18,
            39
                                    4
                                             (or more).
46
```

Of the sick-rooms in the 46 different houses infected, no less than 26 Isolation of are returned as being not at all isolated from the rest of the premises, the family either having access to, or living in, the sick-room. In 26 of the houses no means to prevent infection were being taken. In 2 cases removal to Hospital was agreed to and effected.

46 occupants of the houses in question were employed at shops, etc., or in occupations elsewhere, as shewn on Table at page 25.

Residents on In-fect ad Premises occupied else-

Businesses on Infected Premises.

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

	No	of	
Character of Infected Premises, etc.	House-holds.	Cases,	Remarks.
Confectioner's Shop	1	2	
Painter & Paperhanger	1	2	
Grocery	1	1	

Diphtheria in relation to Milk Supply. Milk Supply.—The households affected were supplied by a large number of dealers. In one case only was milk supplied to more than one infected household by the same dealer, and upwards of three months intervened between the cases in the (2) households.

PUERPERAL FEVER.

Puerperal Fever.

The undermentioned details refer to Puerperal Fever during the year 1886.

Inquiries were made in 13 households, containing	 Cases.
Case in Public Institution, see page 23	 1
Total	 14

Puerperal Fever and Midwifery Practice.

7 of the above cases had been attended by 6 different Midwives,* each of whom was cautioned against continuing her practice until the lapse of a period of two months after the confinement. This injunction is believed to have been attended to. Compensation for loss of practice was granted by the Sanitary Committee.

RELAPSING FEVER.

Relapsing Fever.

The undermentioned details refer to Relapsing Fever during the year 1886.

Inquiries were made in 2 households containing 2 cases.

Of the infected houses 1 consisted of 2 rooms and 1 of 3 rooms.

Relapsing Fever has not previously been notified under the Act. The only previously recorded occurrence of this disease in Newcastle was in the year 1872, when an outbreak of 21 cases came under the observation of the writer, all of which were admitted to the Newcastle Fever Hospital.

* One Midwife attended two of these cases, an interval of several months occurring between the two.

INFECTIOUS CASES NOTIFIED IN PUBLIC INSTITUTIONS IN NEWCASTLE.

Infectious Diseases in Public Institutions.

Institution.	Small- pox.	Typhus Fever.	Enteric Fever.	Scarlet Fever.	Diph- theria.	Puerperal Fever.	TOTAL.
Infirmary	1		1	3	2		7
Barracks			1	14	2		17
Fever Hospital, Bath Lane		1					1
Workhouse	2		4	***		1	7
Deaf and Dumb Institution			1				1
Total	3	1.	7	17	4	1	33

MEASLES.

This disease—which of late years has assumed a severity of type Measles. perhaps previously unparalleled—is not notifiable by medical practitioners Seeing the often avoidable danger to which healthy children in schools are exposed, from being brought into close contact with others who, though apparently well, are incubating the disease, and whose breath is highly infectious, it is desirable that Measles should be included among the "infectious diseases" as defined by "The Newcastleupon-Tyne Improvement Act of 1882."

Isolation of the Infected Sick and other Preventive Measures, and the extent to which they are adopted on Infected Premises .- This inquiry has been continued last year with the following results:-

Isolation and other Preventive Measures in Infected

SUMMARY .- CHARACTER OF INFECTED HOUSES.

	DWELLINGS INVADED BY DISEASE.									
DISEASE.		Households.		Houses of	Total House					
	1 room each.	2 rooms each.	3 rooms each.	more than 3 rooms.	holds.					
Small-pox		2			2					
Typhus Enteric Fever		70		10	165					
Continual Power	24 6	70 21	28	43	37					
Canalat Tamen	71	234	137	179	621					
Diphtheria	4	12	12	18	46					
Relapsing Fever		1	1		2					
Totals	105	340	181	247	873					
Rate per cent, to Total	12%	39%	21%	28%						

During the past year the "pair-room" tenement has been relatively more often invaded by infectious disease than other dwellings, 35 per cent. of the infected households consisting of this class, as compared with 32 per cent. during 1885.

Character of the Isolation and other Preventive Measures adopted. 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:—

SUMMARY-ISOLATION OF SICK-ROOMS AND PRECAUTIONS TAKEN, ETC.

	1		ISOLA	TION.			g agreed to (Number of tots patients.) 2	Percentag
DISEASE.	Total House- holds Infected	Fair.	Moderate.	Imperfect.	None,	No precau- tions being taken at time of Inspection		of cases isolated in
Small-pox	2				2	1	2	Per cent.
Typhus	100		***		***		1	
Enteric Fever	165	1	18	51	95	90	-	
Continued Fever			5	8	24	25	-	
Scarlet Fever		3	64	212	342	353		
Diphtheria	46	3	4	13	26	26	2	8
Relapsing Fever	2				2	2		
Total (1886)	873	7	91	284	491	497	95	
Percentage (1886)		0.8%	10%	33%	56%	57%		7.1%
						1885 :—		
Total (1885)	1,130	18	148	496	459	543	112	
Percentage (1885)		1.6%	13%	43%	41%	48%		6.5%

Summary of Occupations in which Persons Residing on Infected Premises were Engaged elsewhere at the time of Inquiry.

Summary of Occupations followed elsewhere by Residents on Infected Premises.

Occupations (after the Classification in the Census Tables).	Small-pox.	Enteric Fever.	Simple Continued Fever.	Scarlet Fever.	Diphtheria	Relapsing Fever.	TOTALS.
Government of the Country (Postal Officials, Police, etc.) Defence of the Country (Army) Professional Classes, viz:—	1.00	7		25 6	1		33 6
Schoolmasters and Teachers		1	1	4 3			6 3
Medical, etc Others		5	***	7	2	***	14
Domestic Service		7	ï	11	3		22
Commercial Occupations (Travellers, Clerks, Agents, etc.)	,	3	1	31	3		39
Conveyers of Men, Goods, or Mes-		100					
Sages Occupations about Animals	1	11	3	70	5	1	91
Workers and Dealers in Books,		***		4			4
Prints, etc Workers and Dealers in Machines	101	***	1	14	***		15
and Implements Workers and Dealers in Houses,	***	46	12	113	4		175
Furniture, and Decorations		16	2	47	3		68
Workers and Dealers in Carriages		1		2			3
and Harness Persons employed in Shipyards		2		4			6
Workers and Dealers in Chemicals	77.0		1000	100		1	
or Compounds	***	1		1			. 2
Workers and Dealers in Tobacco				5			5
Workers and Dealers in Food and							
Lodging (Publicans, Butchers, Provision Dealers, etc.)		23	3	42	4		72
Workers and Dealers in Textile		20					
Fabrics (Drapers, etc.)		4	200	10	2		16
Workers and Dealers in Dress		11	2	32			45
Do. in Animal							
Substances (not Food, etc.)		3	1	7			11
Workers and Dealers in Vegetable Substances (not Food)		2	1	7	1		11
Workers and Dealers in Mineral Sub-		-	-			***	
stances (Miners,Blacksmiths,etc.) Workers and Dealers in Unspecified	***	9	6	40		1	56
Commodities, viz :—							
Lamplighters	***	1	***	2	***		3
Billposter		***		1			1
Labourers		11	6	35	5		57
Pawnbrokers	***		***	2			2
Enginemen and Firemen (un- defined)				2			2
Hawkers		6	1	2	1		10
Contractor				1			1
Errand Girl				1			1
Gardener			***	1			1
Manager				1			1 2
Hucksters Workers and Dealers in Refuse	***			2		***	2
Matters (Sweeps & Rag Dealers)				2			2
Occupation not stated	***	19	5	95	12		131
Bath Assistant				1			1
Totals	2	189	46	633	46	2	918
Totals of Inquiries Made during							
1886 at Infected Households	2	165	37	621	46	2	873
	-		-		_	1	

FEVER AND SMALL-POX HOSPITALS.

Work at the Hospitals for In-fectious Diseases.

108 patients have been admitted to the Fever and Small-pox Hospitals-

2 suffering from Sm	all-pox.
---------------------	----------

		ff1 1
1	**	Typhus.

- 36 Enteric Fever.
- 44 Scarlet Fever.
- 10 Simple Continued Fever (Febricula).
- 2 Diphtheria.
- 9 Measles.
- Other diseases.

For other details as to the above, see Appendix A, Table XI.

The Small-pox Hospital has been open on two occasions, viz., from April 1st to 16th, and from August 22nd to September 8th. The Smallpox Convalescent Home at Byker has not been occupied by patients during the year.

Expense of Maintenance.

Expense of Maintenance of Patients.

Of the patients admitted, the expense of maintenance is charged as under :-

						Cases.	
To	the Sanitary Authority	***			 	96	
11	private guarantors				 	10	
,,	the governing bodies of	Public	Institu	itions	 	2	
	Tot	al			 	108	

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 follow :-

For Burial of Corpses fro	m room	s in w	hich	
persons live or sleep				17
For Burial of Infected C	corpses	from F	ever	
or Small-pox Hospita	ıl ·			2
For Removal of Corpses	to Mo	rtuary	and	
subsequent Burial				0
				-
Total				19

Summary of Reports, etc., made during the year.

SUMMARY OF SHORT REPORTS MADE DURING THE YEAR 1886.

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

(1.)—Zymotic Disease—

Notifications; hospital admissions; deaths.

Enteric Fever in Scotswood Road district.

Cases illustrating liability to spread of infection.

Dairies and infectious disease.

Midwifery practice and Puerperal Fever.

Compensation granted to midwives for loss of practice; infected confectionery, provisions, etc., destroyed.

Infectious disease in connection with the Barracks and with Byker Board School.

The treatment of surgical patients suffering from fever, etc., and removed to Hospital from the Newcastle Infirmary.

Infantile Diarrhœa and bottle-feeding.

(2.) - Localities -

Quality Row (deposits, etc.)

St. James' Terrace (drainage, etc.)

Wright's Yard, Percy Street (drainage, paving, deposits, etc.)

Dispensary Lane (slaughter-houses).

Clayton Park Square district (general sanitary condition).

Dame Allan's School.

All Saints' Cemetery.

City Flour Mills (smoke nuisance).

(3.)—Dwellings—

Tenement Regulations.

Overcrowding, houses unfit for habitation, etc.

(4.)—Trades—

Dairy Regulations (Bye-Laws for); cow-houses occupied without sanction of the Sanitary Authority; tripery proposed.

(5.)—Sewage Deodorization, etc., etc.

GENERAL WORK OF THE HEALTH DEPARTMENT.

General Work of the Health Department.

Nuisance Removal.

Bakehouses.

- (a.)—Nuisance Removal.—4,125 cases of nuisance have been attended to by the Inspectors of the Department during the year. (For details, see Appendix A, Table XVI.)
- (b.)—Bakehouses.—Chief-Inspector Clarke reports that these continue to be kept under supervision, and that many improvements have taken place.

(c.)—Triperies.—Mr. Clarke further reports that two Triperies have been discontinued, leaving 10 in operation in the City. These are regularly inspected and are reported clean.

Disease Inquiry

(d.)—Infectious Disease Inquiry and Disinfection.—1,348 cases of infectious disease have been inquired into by the Special Inspectors, and the houses or rooms connected therewith disinfected, as compared with 1,727 during the year before. The bedding and other infected articles have been removed to the Disinfecting Station, and after purification they have been returned to the owners. (For list, see Appendix A, Tables XIV. and XV.) In addition to the above, 52 inquiries have been made, also disinfection done at houses or rooms where deaths have occurred from Measles or Diarrhoea.

Compensation granted on account of Infection.

Compensation.

In eight cases compensation amounting in the aggregate to £13 11s. 10d. has been allowed by the Sanitary Committee to the occupiers of infected houses and others, viz.:—

For Public Laundry or other work suspended 3 cases.

For Provisions, Fruit, etc., destroyed 5 ,,

8

Food Inspection.

(e.)—Food Inspection.—The report of Inspector Hedley on suspected and unwholesome Butchers' Meat or other flesh examined during the year is given in Appendix A, Table XII.

Dairies, etc.

(f.)—Inspection of Dairies, Cowsheds, and Milkshops during the year 1886.—Inspector Hedley reports that during the year 1,704 inspections of cowsheds and milkshops have been made, and several evils have been remedied on verbal notice.

The local regulations now in force having been found insufficient for the proper control and management of dairies, cowsheds, etc., new regulations are at present under consideration.

Plans have been submitted to and passed by the Town Improvement Committee for building three new cowsheds. Four applications have been made to begin to occupy old buildings as cowsheds. After being inspected and reported on, the Sanitary Committee granted three of the applications and declined one.

Six outbreaks of infectious disease have been reported in the families of dairymen, viz., three of Scarlet Fever, two of Enteric Fever, and one of Continued Fever. On report of the cases they were at once attended to, and instructions given to prevent any communication between the infected persons or premises and the milk supply. No spread of infection by means of milk is known to have occurred from any of the cases.

(g.)—Slaughter Houses.—Inspector Hedley reports that the inspection Slaughter of slaughter-houses has been attended to as closely as circumstances will permit, but owing to the places being situated so far apart, as close a supervision as is desirable of their cleanliness, and the class of meat prepared therein, cannot be carried out at all times. During the year the license to slaughter animals therein was withheld from three places by order of the Sanitary Committee, on account of their insanitary condition and the surroundings.

Five applications have been made to the Sanitary Committee for licenses to begin to use premises as slaughter-houses. After being reported on, the Committee granted three of the applications and refused the others.

At Stepney, four slaughter-houses have been made into two, thus making 131 licensed places at the present time; of that number 97 are licensed for a term of twelve months, and 34 (on account of special sanitary defects) for six months only.

At Dispensary Lane, the slaughter-houses belonging to the Incorporated Company of Butchers, having been improved to the satisfaction of the Sanitary Committee, have been replaced on the twelve months' license list.

(h.)—No Well Waters have been drawn for analysis during the year.

Houses Built during the Year 1886.

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

Newcastle-upon-Tyne.		Self	Houses contained.	Tu	Houses of ro Flats each.
Elswick Township	 	 	101		177
Westgate Township	 	 	1		16
Byker Township	 	 	44		195
Jesmond Township	 	 	21		
Heaton Township	 	 	69		52
St. Andrew's Parish	 	 	22		8
St. John's Parish	 	 			
St. Nicholas' Parish	 	 			
All Saints' Parish	 	 	-		2
			258		450
				(for !	000 families.)

New accommodation has thus been provided for 1,158 families, or, at the rate of 5 persons to a family, 5,790 persons, as compared with accommodation estimated for 5,155 persons provided during 1885.

New Accommodation.

Plans submitted to the Town Improvement Committee* for 837 new Plans Examined.

* Several of these were rejected by the Committee, and others, for various reasons, have not been carried out.

dwellings (519 self-contained houses and 636 flats), 74 additions, and 42 alterations, have been examined by the Medical Officer of Health.

Conveniences.

The conveniences proposed for these dwellings were as under :-

CONVENIENCES.

A C	
atdoor.	ETS. PRIVIES.
629 270	131

Defects on Plans for proposed Houses. The following is a summary of the principal defects observed on the plans as first submitted:—

Small Bedrooms.

865 small bedrooms were noted. Twenty of the smallest of these yield an average capacity of less than 560 cubic feet. Of twenty of such bedrooms, the plans for which were examined on the same day, the average capacity was 783.9 cubic feet, and the average floor space 81.8 square feet.

Other Defects Plans.

- 46 other rooms (kitchens, etc.,) were notified as "small."
- 521 bedrooms were without fireplace or special means of ventilation.
- 125 water-closets were in an improper position.
- 88 yards were deficient in space.
- 37 stables and 4 cow-houses were objectionably near to dwellings.
- 19 water-closets were shewn in bath-rooms.
- 7 proposed buildings interfered injuriously with light or ventilation of adjoining buildings.
- 7 rooms were deficient in height.
- 3 instances of insufficient "convenience" were noted, etc., etc.

HENRY E. ARMSTRONG,
MEDICAL OFFICER OF HEALTH.

Health Department, Town Hall, Newcastle-upon-Tyne, April, 1887.

City and County of Newcastle-upon-Tyne,

APPENDIX A.

TABLE I.

POPULATION (ESTIMATED BY THE REGISTRAR GENERAL TO THE MIDDLE OF THE YEAR)-155,117.

Registration Sub-districts	Different Quarters	Birth		ered in 52 January,	Weeks, 6 1887.	ended		Register Weeks lst Januar	
and City.	of the Year.	Ma	ale.	Fen	nale.	Total.	Male.	Female.	Total.
Westgate	1st Quarter .	Legiti- mate. 327 325	Illegi- timate. 15	Legi- timate. 386 289	Illegi- timate. 21	699 650	197 199	204 162	401 361
	3rd ,,	317	10	306	16	649	187	164	351
	4th "	309	6	303	11	629	174	221	395
	Total	1,278	53	1,234	62	2,627	757	751	1,508
St. Andrew's	1st Quarter.	82	3	59	5	149	56	46	102
.,	2nd "	64	3	77	6	150	34	38	72
	3rd " 4th "	67 73	3 3	76 79	5	150 160	43 33	44	87 80
	Total	286	12	291	20	609	166	175	341
	10001	200	12	201		000	700		011
St. Nicholas'	1st Quarter.	31		31	3	65	74	41	115
	2nd "	38	1	25	1	65	64	37	101
	3rd ,, 4th	36 31	2 2	38	3 5	79 76	64 53	31 86	95 89
	Total	136	5	132	12	285	255	145	400
All Saints'	1st Quarter.	141	10	110	7	268	74	58	132
	2nd "	119	10	105	6	240	58	58	116
	3rd "	120	10	107	5	242	67	51	118
	4th ,,	96	7	117	6	226	65	77	142
	Total	476	37	439	24	976	264	244	508
Byker	1st Quarter.	193	3	186	7	389	77	67	144
	2nd "	207	2	202	2	413	80	81	161
	3rd "	203	2	206	2	413	86	99	185
	4th "	175	7	203	6	391	84	107	191
	Total	778	14	797	17	1,606	327	354	681
City	1st Quarter.	774	31	722	43	1,570	478	416	894
	2nd "	753	38	698	29	1,518	435	376	811
	3rd ,,	743	27	733	30	1,533	447	389	836
	4th "	684	25	740	33	1,482	409	488	897
	Totals	2,954	121	2,893	135	6,103	1,769	1,669	3,438

The Births represent a rate of 39°3, and the Deaths a rate of 22°2 per 1,000 estimated population. The increase of births over deaths is 2,665 this year, as compared with 1,864 in 1885. The increase of population of Midsummer, 1886, over that of Midsummer, 1885, is estimated by the Registrar General at 1,908 persons, and the increase of that of Midsummer, 1887, over that of 1886, at 1,931 persons.

TABLE II.

Annual Death-rate 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.

	18	85.	188	86.
	Annual	Annual	Annual	Annual
	Average	Rate in	Average	Rate in
	in 28	New-	in 28	New-
	Towns.	castle.	Towns.	casile.
1st Quarter	22·7	*26·5	24·4	23·0
2nd "	20·6	32·5	18·6	20·9
3rd ,,	18·8	†24·0	20·4	21·6
	20·0	21·2	20·3	23·0
Annual Rate	20.5	26.0	20.9	22.2

^{* 12} weeks.

TABLE III.

		REGISTRATION SUB-DISTRICTS.					
CAUSE OF DEATH.		West- gate.	St. Andrew's	* St. Nicholas'.	All Saints'.	Byker.	City.
I.—Specific, Febrile, or Zymotic Diseases.							
1.—Miasmatic Diseases.		22				10	40
0 1 1 77 (0 1 11)		28	3	1	6 7	10	42 45
Diphtheria		6	1	1	3	8	19
		54	9	5 7	9 2	25	102
Enteric or Typhoid Fever		14	0	,	-	0	94
2.—Diarrhæal Diseases.							
		2		1			3
Diarrhœa, Dysentery		61	18	10	19	39	147
3.—Malarial Discases.							
(e.g., Remittent Fever, Ague)					1		1
			1	1 200			
5.— Venereal Diseases.							1
Syphilis	•••	10		4	7	1	22
Carried forward		197	34	30	54	100	415

^{*} The number of Deaths in St. Nicholas' Sub-district is increased by 212 in the Infirmary, and 8 in the Fever Hospital, 97 of the former came to that Institution from beyond the City, and in 14 other cases residences were unknown.

^{† 14} weeks.

TABLE III.—CONTINUED.

		REGI	STRATION	SUB-DIST	RICTS.	
CAUSE OF DEATH.	West- gate.	St. Andrews.	St. Nicholas'.	All Saints'.	Byker.	City.
Brought forward	197	34	30	54.	10	415
6.—Septic Diseases.						
Erysipelas		1	1	1	2	12
Pyæmia, Septicæmia	2	1	5	1	1	10
Puerperal Fever	10	***	***		1	11
II.—Parasitic Diseases,						
Thrush	4				1	5
III.—DIETIC DISEASES.						
Starvation & Want of Breast Milk Chronic Alcoholism, Delirium						7
Tremens	7		8	1	2	18
IV CONSTITUTIONAL DISEASES.						
Rheumatic Fever and Rheuma-						
tism of the Heart	2 6		1	1	2	4
Rheumatism		1		4		12
Gout	0			2		4
Cancer, Malignant Disease	30	10	16	11	14	81
Tabes Mesenterica Tubercular Meningitis, Hydro-	28	3	2	2	12	47
cephalus	24	6	3	4	6	43
Phthisis Other Tubercular and Scrofulous	165	36	54	42	65	362
Diseases	33	7	12	5	8	65
Anæmia, Chlorosis, Leucocythæ- mia	5	3	2	2	1	13
Glycosuria, Diabetes Mellitus			5		1	6
V DEVELOPMENTAL DISEASES.						
Premature Birth	44	6	13	8	18	89
Atelectasis	3				1	1
Congenital Malformations Old Age	84	17	4	13	26	144
VI,-LOCAL DISEASES.						
1.—Diseases of Nervous System.			-			
Inflammation of Brain or Mem-		14	10	10	01	0.5
Apoplexy, Softening of Brain.	36	14	12	12	21	95
Hemiplegia, Brain Paralysis Insanity, General Paralysis of the	81	20	17	22	30	170
Insane	2					2
Epilepsy	4		2		2	8
Carried forward	788	159	187	187	315	1,631

TABLE III.—CONTINUED.

		REGI	STRATION	SUB-DIST	RICTS.	
CAUSE OF DEATH.	West- gate.	St. Andrew's	St. Nicholas'.	All Saints'.	Byker.	City.
Brought forward	783	159	187	187	315	1,631
1.—Nervous System.—Continued.						
Convulsions Paralysis Agitans, Paraplegia,	50	21	7	41	25	144
Disease of Spinal Cord Other Diseases of Nervous System	10 7	4 2	2 3	3	9	20 24
 Diseases of Circulatory System. 						
Endocarditis, Valvular Diseases of			0	0	-	0.0
* Heart Pericarditis	9 2	5	3	2	7	26 2
Other Diseases of Heart	86	13	25	21	31	176
Aneurism Embolism, Thrombosis	1		2	***	1	4 2
Other Diseases of Blood Vessels			1			1
4.—Diseases of Respiratory System						
Croup	10	4	4	6	3	27
Laryngitis Bronchitis	12	1	2	6	2	23 249
Pneumonia	123 59	29 19	11 18	44	37 35	175
Pleurisy	9	1	1	1	1	13
Emphysema, Asthma Other Diseases of Respiratory	9	1	- 1	1	3	15
System	13	3	2	2	4	24
5.—Diseases of Digestive System.						
Dentition	20	2		5	-11	38
Diseases of Stomach Enteritis	14	3 2	1	4 2	6	28 11
Peritonitis	5 7		1 2	4	4	17
Obstructive Diseases of Intestine	3		2	1	5	11
Ascites Cirrhosis of Liver	1 16	i	2	1 4	3	2 26
Jaundice & other Diseases of Liver	18	3	2	7	9	39
Other Diseases of Digestive System	4					4
6.—Diseases of Lymphatic System.						
(e.g., of Lymphatics and of Spleen)					1	1
8.—Diseases of Urinary System.						
Nephritis	1	11.	3		1	5
Bright's Disease, Albuminuria Disease of Bladder and of Prostate	15 4	5	3 5	8	6 2	37 13
Other Diseases of Urinary System	2	2	3		4	11
9.—Diseases of Re-Productive System.						
(A) Of Organs of Generation.						
Female Organs	1		2		***	3
(B) Of Parturition. Abortion, Miscarriage			1	1		2
Puerperal Convulsions	2		***		2	4
Pl. centa Praevia, Flooding	2		1		1	4
Carried forward	1,299	281	298	403	531	2,812

TABLE III.—CONTINUED.

CAUSE OF DEATH.	REGISTRATION SUE-DISTRICTS.					
	West- gate.	St. Andrew's	St. Nicholas'.	All Saints'.	Byker.	City.
Brought forward	1,299	281	298	403	531	2,812
9.—Diseases of Re-Productive	9					
System.—Continued. Other Accidents of Childbirth	8	1	3	2	6	20
10Diseases of Locomotive System						
Caries, Necrosis Other Diseases of Locomotive		2	1	2		9
System	1		4	1	1	7
11.—Diseases of Integumentary System	1					1
VIIVIOLENCE.		-				
1.—Accident, Negligence, etc. Fracture and Contusion	13	1	0.0	9		10
Burn and Scald	4		27	3	2	48 11
Poison				1		1
Drowning Suffocation	1 6			6	2	7
Hernia		1	1 2		2	14
Deaths consequent on Surgical					-	
Operation Otherwise	1		4		1	2
2.—Homicide. Murder and Manslaughter	2		5	1		8
3.—Suicide.						
Gunshot Wound	2	***	1		1	2
Cut, Stab Poison		1	1	2	1	2 5
Drowning	2		î			3
Hanging		1	1		1	3
Otherwise					1	1
4.—Execution. Hanging				1		1
VIII.—DEATHS FROM ILL-DE- FINED AND NOT SPECIFIED CAUSES.						
Dropsy			:::	2	1	3
Debility, Atrophy, Inanition Mortification	100	32	11 5	43	93	279
Tumour	4	2	6	ï	1	14
Abscess	6	3	1	3	1	14
Hœmorrhage	3	2	2			7
Sudden Death (Cause not ascertained)					1	1
Found Dead (Cause not stated)	7	2	4	7	5	25
Other Causes not specified or ill-	100	7.7	110	00	0.0	
defined	39		17	26	26	119
Totals	1,508	341	400	508	681	3,438

CITY AND COUNTY OF NEWCASTLE-UPON-TYNE.—1886. SUMMARY OF TABLE III.

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IVE			1st Quarter.	2 : : # : : : 19 : : : 19 : : : : 19 : : : : :	53	6 40 6	-	::	10 : :	17	132
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LTAI			2nd Quarter.	2 . 11	-	68 49 163 125 40 45	16	1000	0,00	121 107	894811
SHBWING ALSO, THE INCIDENCE OF MORTALITY PROM	L		lst Quarter.	60 7 7 7 113 113 161					52 62 11		
OF				SPECIFIC, FEBRILE, OR ZYMOTIC DISEASES 1. Miasmatic Diseases 2. Diarrhocal Diseases 3. Malarial Diseases 5. Venereal Diseases 6. Septic Diseases —Parastric Diseases —Dietic Diseases —Dietic Diseases —Orever Diseases —Dietic Diseases —Dietic Diseases —Dietic Diseases —Dietic Diseases —Dietic Diseases —Orever Organization Diseases		1 1 1	: :	em : : :	: : :	-DEATHS FROM ILL-DEFINED AND NOT SPECIFIED CAUSES	:
OE				SEA		me m	В	Diseases of Re-productive System— (A) Of Organs of Generation (B) Of Parturition Diseases of Locomotive System Diseases of Integumentary System		QN.	
EN				A	m.	Diseases of Circulatory System Diseases of Respiratory System Diseases of Digestive System	Diseases of Lymphatic System Diseases of Urinary System	Diseases of Re-productive Syste (A) Of Organs of Generation (B) Of Parturition Diseases of Locomotive System Diseases of Integumentary Sys	Accident, Negligence, etc Homicide	:4:	:
110				ECIFIC, FEBRILE, OR ZYMOTIC 1. Miasmatic Diseases 2. Diarrhocal Diseases 3. Malarial Diseases 5. Venereal Diseases 6. Septic Diseases PARASITIC DISEASES CONSTITUTIONAL DISEASES DEVELORMENTAL DISEASES	AL DISEASES— Diseases of Nervous System	20 00 8	Diseases of Lymphatic Syst Diseases of Urinary System	ive ner e S	etc	NEI	
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NO			CAUSE OF DEATH	ECIFIC, FEBRILE, OR ZYMOTIC 1. Miasmatic Diseases 2. Diarrhocal Diseases 3. Malarial Diseases 5. Veneral Diseases 6. Septic Diseases PARASITIC DISEASES CONSTITUTIONAL DISEASES DEVELORMENTAL DISEASES	OCAL DISEASES	Diseases of Diseases of Diseases of	Ses	seases of Re-produ A) Of Organs of C B) Of Parturition seases of Locomoti seases of Integum	Accident, Homicide Suicide	EATHS FROM ILL-DE SPECIFIED CAUSES	
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TABLE IV.

THE FOLLOWING TABLE SHEWS THE WEEKLY NUMBERS OF DEATHS FROM CERTAIN DISEASES, LIABLE TO FLUCTUATION, DURING THE 52 WEEKS ENDED

		and the same	1st	JANUAL	RY, 188	7:	2505000000				
	Pulmonary Consumption.	Diseases of Respiratory Organs other than Consumption.		SEVI	EN CHIE	F ZYMOT	ic Dist.				Total of Seven Chief Zymotte Diseases.
Secretary and the second	pts	Diseases of piratory Ori other than onsumption			1	4	rio.	F	ever.		Sen
WEEK ENDED.	nou	ton ton un	Small-pox.	68,	1. Gt	Diphtheria	Whooping- Cough.	1	od.	Diarrhoea	of ZZ Sea
	Tag USU	ns dring	1	Measles.	Scarlet Fever.	, in	do	Typhus.	Enteric.	d.	Dieta
	43	15.0	0.03	fer	Fee	Ho.	468	10	节	lar	245
		E E	SS	-	-	Ä	A	H	Enterie. Continued.	A	
								_			-
Jan. 9	7	8					1				1
16	10	11					1			1	4
0.9		10	***		***	***	3			1	8
0.0	6	12	***	1	***	1	5		1		3
Fals C	8					***	1		2		4
19	11	9 14		1	1		1			1	
00	9		***	1	***		3		1		5
97	7	14		***	1	1	3				5
,, 27	5	21	***	***	***		1		1	1	3
Mar. 6	10	17			1	1	4			2	8
,, 13	5	22 12		1	2		3		1	1	8
,, 20	12	12			1		5				
,, 27	8	7				1	4		1		6
,, 27 April 3	4	6			1		4			1	6
,, 10	8	9 8			1		4				5
,, 17	6	8					3			1	4
,, 24	6	13					2		1	***	3 7
May 1	15	6		1	***		6				7
,, 8	8	14			1	2	4		1	1	9
,, 15	7	9	***		1		4		1		6
,, 22	4	8					1		1		6 2 6
,, 29	8	8		1	244		5				
June 5	8	12					2			1	3
,, 12	15	6			2		2				4
,, 19	4	12			2		+				-3
0.0	3	13	***		***				1	1	3 4 3 2 9 7 5
July 3	5	7		2		1	3		2	1	9
,, 10	7	6		1	1		1		2	2	7
,, 17	8	7			1		2			2	5
,, 24	5	6	***	1	1		1			3	6 7
,, 31	6	3				1	1			5	7
Aug. 7	7	5			1					4	5
,, 14	5	6					1			1	2
,, 21	5	7		1		1	2			5	9
., 28	10	5		- 1	1		2		1	6	11
Sept. 4	6	2								14	14
,, 11	4	9					2		1	21	24
., 18	4	11		3		1	2	1500		21	27
., 25	5	2			1	1			4		26
Oct. 2	6	10			2	1			1	6	10
., 9	7	7		1	3	1	1		2	10	18
., 16	7	10		1					3	3	7
,, 23	8	13			1		1			2	7 4
,, 30	4	13		1	2			189		4	7
Nov. 6	3	10		1	3	1				-	6
,, 13	8	12		3			2		1		6
,, 20	6	10		1	2				1	2	6
,, 27	5	16		1	1	1	1				4.
Dec. 4	12	9		2	1		1		1		5
., 11	8	10		4	1	1	2		1	1	10
,, 18	6	13		1	3	1				2	7
,, 25	5	13		5	3		3		1		12
Jan. 1	6	23		6	3	2	2		1		14
					1000	11000	1				
				7	-			-			
Totals	362	526		42	45	19	102		34	147	389
2010111						-					
-				1							-

TABLE V .- AGES AT DEATH.

		REGIS	TRATION	SUB-DISTR	ICTS.	
Periods.	Westgate.	St. Andrew's.	St. Nicholas'.	All Saints'.	Byker.	Total in City.
Under 1 Year	396	98	52	152	253	951
1 Year and under 5 Years .	236	43	36	95	108	518
5 Years ,, 20 ,,	124	20	47	40	35	266
20 ,, ,, 40 ,,	195	44	93	62	87	481
40 ,, ,, 60 ,,	241	55	115	77	93	581
60 ,, ,, 80 ,,	275	67	55	73	88	558
80 ,, and upwards	41	14	2	8	17	82
Age not known				1		1.
Total (all ages) dying during 52 weeks ended 1st Jan., 1887	1,508	341	400	508	681	3,438

TABLE VI.

BIRTHS AND DEATHS IN THE DIFFERENT QUARTERS OF THE YEARS 1885, 1886.

		BIR	тня.	DEA	THS.
		1885.	1886.	1885.	1886.
First Quarter «	 	 *1,385	1,570	*936	894
Second ,,	 	 1,528	1,518	1,244	811
Third "	 	 +1,493	1,533	+992	836
Fourth ,,	 ***	 1,442	1,482	812	897
Totals	 	 5,848	6,103	3,984	3,438

TABLE VII.

DEATHS OF CHILDREN UNDER 1 YEAR AND PERSONS OVER 60 YEARS IN 1883, 1884, 1885, 1886.

					N	UMBER O	F DEAT	HS.		
			υ	nder 1 Y	ear of Ag	ge.		Over 6	9 Years.	
			1883.	1884.	1885.	1886.	1883.	1884.	1885.	1886
First Qua	rter	 	215	220	*228	215	191	158	*178	191
Canana	,,	 	198	169	301	206	141	151	179	140
Thind	"	 	277	317	+277	299	154	158	+152	123
Founth	,,	 	229	243	201	231	181	184	156	186
	Totals	 	919	949	1,007	951	667	651	665	640

^{* 12} Weeks.

TABLE VIII.

Deaths of Children under One Year of Age during the 52 Weeks ended January 1st, 1887.

ENDED	JANUAL	Y 1ST,	1001.			
		REG	GISTRATIO	N SUB-DIST	TRICTS.	
CAUSE OF DEATH.	Total in City.	West- gate.	St. Andrew's.	St. Nicholas'	All Saints'.	Byker.
I.—Specific, Februe, or Zymotic Diseases.						
1.—Miasmatic Diseases.						
Measles Scarlet Fever (Scarlatina)	10	2 4	2	•••	2 2	3
Diphtheria	4	2				2
Whooping-Cough	52	26	5		6	15
2.—Diarrhæal Diseases. Diarrhæa, Dysentery	95	36	10	7	15	27
5.—Venereal Diseases.						
Syphilis 6.—Septic Diseases.	14	8		1	4	1
Erysipelas	3 2	3				
Pyæmia, Septicæmia	2		1			1
II.—PARASITIC DISEASES.	4	3				1
III.—DIETIC DISEASES.	*					-
Starvation and Want of Breast						-
Milk	7	7				
IV.—CONSTITUTIONAL DISEASES.					,	
Tabes Mesenterica	22	13	2	2		5
Tubercular Meningitis, Hydro- cephalus		9	5		2	2
Phthisis	1					1
Other Tubercular and Scrofulous		5	6	3	1	2
Diseases Anæmia, Chlorosis, Leucocythæ-			0		1	
mia	1					1
V.—DEVELOPMENTAL DISEASES.						10
Premature Birth Atelectasis	1	44	6	13	-8	18
Congenital Malformations		3			1	1
VI.—LOCAL DISEASES,			100			
1.—Diseases of Nervous System.		1 8				
Inflammation of Brain or Mem- branes	26	8	8		4	6
Convulsions	117	43	16	6	35	17
Other Diseases of Nervous System		1				2
3.—Diseases of Circulatory System Diseases of Heart	1	1				
4.—Diseases of Respiratory System					,	1
Croup	5	1 4	1	2	1	
Bronchitis	63	32	4	3	11	13
Pneumonia Other Diseases of Respiratory		12	1	2	7	14
Other Diseases of Respiratory System	1				1	
Carried forward	612	267	67	40	100	138

TABLE VIII .- CONTINUED.

DEATHS OF CHILDREN UNDER ONE YEAR OF AGE DURING THE 52 WEEKS ENDED JANUARY 1ST, 1887.

		REGI	STRATION	SUB-DIST	RICTS.	-
CAUSE OF DEATH.	Total in City.	West- gate.	St. Andrew's	St. Nicholas'-	All Saints'.	Byker.
Brought forward	612	267	67	40	100	138
5.—Diseases of Digestive System.						
Dentition	24	14	2		1	7
Diseases of Stomach	3	1	***	***	1	1
Enteritis	5	3			1	1
Peritonitis	2	1			1	
Obstructive Diseases of Intestine	3	1				2
Jaundice and other Diseases of						
Liver	5	3			1	1
Other Diseases of Digestive System	3	3		***		***
9.—Diseases of Re-productive System.						
(B) Of Parturition.						
Accidents of Childbirth	3	2			1	
VII,-VIOLENCE.						
1.—Accident, Negligence, etc.						
Fracture and Contusion Suffocation	1 13	5	ï	ï	6	1
VIII,-DEATHS FROM ILL-						
DEFINED AND NOT SPECIFIED						
CAUSES.				600		
Dropsy	1				1	
Debility, Atrophy, Inanition	225	77	23	7	31	87
Abscess	3		1		1	1
Hæmorrhage	4	3	1			
Sudden Death (cause not ascer-	1000		- 44			1 - 4
tained)	1					1
Found Dead (Cause not stated)	9	3	1	1	1	3
Other Causes not specified or ill-defined	34	13	2	3	6	10
Total	*951	396	98	52	152	253

^{*} Representing a rate of 61 per 1,000 population at all ages.

TABLE IX.

Uncertified Deaths in each Sub-district during the 52 Weeks ended 1st January, 1887.

					-	-	Triba	,										
	We	stgate	2.	St. A	Andr	ew's.	St. 1	Vicho	das'.	All	Sain	ts'.	1	Byker		Т	otal.	
Alleged Cause of Death.	Under 1 Year.	Under 2.	Z 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.
Scarlet Fever			1															1
Effects of Whooping- Cough														*1			*1	
Diarrhœa		4.7															*1	
Syphilis	1															1		
Consumption			*1															*1
Premature Birth	2						4									6		
Old Age						1											**	1
Apoplexy						1												1
Paralysis or some other Natural Cause			*1															*1
Convulsions	-			4			1			15				1		25	1	
Convulsion Fits				1												1		
Heart Disease			**2									*1						***
Syncope						1												1
Bronchitis															*1			*1
Bronchitis and Con-				1	1								1			2	1	
Broncho Pneumonia															1			1
Pneumonia and Con- vulsions		1															1	
Inflammation of Lungs	8	3.													*1			*1
Ulceration of Sto-																	18	
mach, Peritonitis and Hœmorrhage			*1															*1
Difficult Labour	. 1															1		
Debility	. 1			1						3			6			11		
Exhaustion & Decay of Nature															*1			*1
Carried forward	. 10	2	6	7	1	3	5			18		1	7	2	4	47	5	14
* The	- notes	alalaa m		to de	no Alba	monte	I.	1		lanta	fuero	thou	Claren	200		-	_	

The asterisks refer to deaths registered on certificate from the Coroner.

Uncertified Deaths in each Sub-district during the 52 Weeks ended 1st January, 1887.

							ARY	, -										
	w	estga	te.	St. A	Andr	ew's.	St. I	Nicho	olas'.	All	Sain	ts'.	E	yker		Т	otal.	
ALLEGED CAUSE OF DEATH.	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.
Brought forward	10	2	6	7	1	3	5			18		1	7	2	4	47	5	14
Exhaustion										1			3			4		
Deficient Vitality	1															1		
Convulsions or some Natural Cause	1									*1			*3			**5		
Believed from a Convulsion or other Natural Cause											*1				•••		*1	
Believed from a Convulsion Fit										*1						*1		
A Fit or some other Natural Cause													*1			*1		
Heart Disease or some other Natural Cause															2			2
Believed from Heart Disease												*1			*1			**2
Supposed Bronchitis .												*1						*1
Bronchitis or other Natural Causes		*1					1							*1		1	**2	
Believed from Decay of Liver												*1						*1
Supposed Marasmus .							1									1		
Believed from General Debility or some other Natural Cause												*1						*1
Believed from Atro- phy and Diarrhea .											*1						*1	
Abscess on Leg				1												1		
Died suddenly in Bed in her Father's House													*1			*1		
Some Natural Cause.				***											*1			*1
Total	12	3	6	8	1	3	7			21	2	5	15	3	8	63	9	22

^{*} The asterisks refer to deaths registered on certificate from the Coroner.

TABLE X. ZYMOTIC DISEASES, A.D. 1886.

STREET LIST OF CASES AND DEATHS FROM THE UNDERMENTIONED DISEASES, CORRECTED BY DISTRIBUTION OF THOSE OCCURRING IN THE FEVER AND SMALL-POX HOSPITALS TO THE STREET FROM WHICH EACH PATIENT WAS REMOVED.

					* CASE	S AND D	EATHS F	ROM	
LOCALITY			Small- pox.	Typhus Fever.	Enteric or Typhoid Fever.	Con- tinued Fever.	Puer- peral Fever.	Scarlet Fever.	Diph- theria.
Addison road								5	
Addison road		•••		***	***			1	
		***							3*
Adelaide terrace			***		***		***	1	
Albert street		***			***			4	
Albion place				***			1*	4	
Albion row		***	****		***		1	1	***
,, Day's bu	nuangs			***		***	***	-	
Albion street	***	•••			***	***		1 7	
Alexander street					5*	1	***	7	
Algernon road	***			***		***		2	***
Alma terrace					1	***	***		1*
Ancrum street	***			***			***	2	
Bailiffgate	***				-1				
Barrack road					***	***		2	
" (Barra	acks)		***		1*	***	***	14	2
Barrack square								6*	
Bath lane	-			1	1			***	
Bayley street								2	
(back								1	
Beaconsfield street								3	
Beaumont street					1		1*	6	
Bedford street								1	
	ord place					1		1	
T) 11 -1	-			92.0				1	
Wh 17 1						1.			
				***		10.00			1*
Bellegrove terrace,		•••						1*	1
Belvidere street		***	***	***				1	
Bentinck street			***	***			***	î	
Blackett street				***	2	2		12*	
Blandford street							1*	2	
Blenheim street				***		9		1	***
Bolingbroke street					***	2		1	
Bowman terrace					1	***	***		***
Brandling park			***		1*				***
Brighton grove				***				2	
Brougham place .	***					***	**	1	***
Brunel terrace					1			4	***
Bryson terrace					***	***	***	3	
Buckingham street					4	1	2**		
Bulmer street						1			
Burnaby street								1	
Burton street								3	
		30 1	2000	0.000	7535 0	200		4	1*
Buxton street	***		***	***	***	***	***	T.	

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

					* CASES	AND D	EATHS FI	ROM	
	LOCALITY.		Small- pox.	Typhus Fever.	Enteric or Typhoid Fever.	Con- tinued Fever.	Puer- peral Fever.	Scarlet Fever.	Diph- theria.
ľ									
18	Byker bank					1		1	
П	" Byker buildin	gs			2	1			
13	Byker street							1	1
	Byron terrace				357			1	
	Cambridge street							1*	
	Camden street							1	
	Canada street				1			7*	
	Cannon street				1*			1	
	Carliol street							1	
	Carlton street				1			î	
- 12	Carr street					1			
	Contra street				2			***	***
-	Chapel lane, Westmorland	l st.		***	1				
			***					4*	
	Chatham place Chester street	***			1				
	CO C -1.1	***				***			18
		***		***					1*
	Chimney mills	***		***	***	***		2	
	Choppington street	***	***		***			1	
	Church street	***		***			***	2	
	Churchillst., Churchilleott	ages		***	1		1*		***
	City road	***			***	***	***	3	
П	" Egypt house			***	***	11.00		1	***
1	" Rose and Crown	yard		***	***		***	1*	
	" Scott's entry			***	***	44.4		2	
1	", Soaphouse lane	***			***			- 2	
	Claremont street			***	***	***	***	2	
	Clarence crescent				1			2	
	Clarence street			***				1	
1	Clarence terrace							2	
ı	Clayton park square							2	
П	Clayton street					2		1	
1	Clayton street west				1				
ı	Clifford street		1 2000		3*	1		4	
	Close		1		***	***		2	
П	" Alderson's entry					1			
	Clumber street				6*			9**	5000
	Convers road		1 1 1 1 1 1 1	1 200		1 32.72		4	1*
1	Cook street							8	
Н	(healt)				1000		***	1	
	Chalenan atmost				1			3*	***
	Cl. 1 1 to							4	
	Carlottan storest	***			2*	***			
		***		***		***	***	2 7*	
	Cottenham street							7-	***
	(back)	***		***		***		2 2	
	Crescent place	***			1				***
	Crispin street (back A)		***					1	
	(back B)	***			2		***	4*	
	Crossley terrace	***					***	1	
	Crown street				****	***	***	1	
	Cut bank				1*			1	

 $^{^{\}rm s}$ The asterisks represent deaths and the numerals the total cases in each street. † Relapsing Fever, 1.

				* CASES	AND D	EATHS FI	ROM	
LOCALITY.		Small- pox.	Typhus Fever.	Enteric or Typhoid Fever,	Con- tinued Fever.	Puer- peral Fever.	Scarlet Fever.	Diph- theria
Dalton street							9	
		9363		";		***	3 2	
Day street		1000		1			2	
De Grey street			***	1	4	***	3	
Denmark street					***	***	7.0	
Dent's hole, West Ho	use square						1	***
Derby street						***	6*	
,, (back)					***	***	2	
Diana street			***				5	
Dilston road		***		***			3	***
Dobson street							1	
Dog bank				2				
Dog-leap stairs, Dog	-leap ter.						1	
Douglass terrace							4	
Duke street							4	
Dunn street							2	
Dunn terrace, Spita	1 Tongue			***			1	
Dunn terrace, Byker		1 17.00			1		4	
Durham street							3	
Edgeware road							5	
Edward street		877.8		11.0			8	
Edwin street		1					4	
Elswick east terrace				4	1		3	
Elswick place		1000		î				
901				î	***		ï	
				4*	i		13	
Elswick street								***
Elvet street							2 2	
Enfield road								
Errington street				1			4	
	ck)			1				***
Essex street				***			1	
Fairless street				1*			6	
Falconar street							4	
Fell street							4*	
Felton street							1	
Fore street, Jesmone		1 20000					1	
Forth banks		1 2 3 3					1	
" (Infirm		1 4		1*			3*	2
, Pitman						1		
Forth place				1				
Forth terrace							1	
(11)		8780					î	
Franklin street				3			6	
Gallowgate, Carnab	v'e vowl			1				1
Common							2	
" Carver'		10000					î	
Garden etreet							1	
		1					1	
Gardener street Garth heads, Indust	dame Illin or				1		4	
		8	***					

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

					* CASES	AND D	EATHS F	ROM	
LOCALITY.			Small- pox.	Typhus Fever.	Enteric or Typhoid Fever.	Con- tinued Fever.	Puer- peral Fever.	Scarlet Fever.	Diph- theria
Goorge street					2			12	
George street ,, (back		***			1			1*	
Citi								10	
Gladstone street		***						4	
Gladstone terrace	***							1	
Glasshouse street								4	
Gloucester road					***			1	
Gloucester street		***							1*
C11 - 1	***	***						. ";	
Gosforth street								6	18
Charles administra		***						0	10000
Grace street	**							2	1
Grafton street				***	***		*1		
Greenhow place							1		
Grenville street	***		***	***	***		***	2	
Grey street			***					1	4
Grove street									4
Haldane terrace								1	
Hamilton street								13*	
Hanover square, WI									2
Harle street (back)								1	
Harrison place								1	
Hartington street								1	
Harvey street					1*			3	2
Hawes street								3	
Haymarket								2	
Hawthorn street					1			1	
Headlam street								8*	1
Heaton park road								1	
Hedley street								i	
Hedley terrace			1000000					î	
Henry street								i	
Herbert street			1		1	1		3	
Hewgill terrace			1	100000				3	
TT! -1 1-11-1	***				2	****			
High Friar street			1 00000		1				
WELLS IN I								7*	
Hill street Hindhaugh street			1					i	
								1	
Holly avenue	l-)		1000000			***		1	
Horatio street (back					1			1	
Howard street Hull street					1			2	
Hull street					1			-	
Ingham place								1	
Janet street								1	1
James place								1	
Jefferson street								7	
Jesmond			1000						1
Jesmond vale			1					5	
Kirco	p street		1					1	
,, 11150	I			1				-	

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

TABLE X.—CONTINUED.

					* CASES	AND DI	ATHS F	ROM	
LOCALITY.			Small- pox.	Typhus Fever.	Enteric or Typhoid Fever.	Con- tinued Fever.	Puer- peral Fever.	Scarlet Fever.	Diph- theria
John street					1	1		. 5	
" (back)								1	
Kent street								1 4	
Kirk street					3				1
Langhorn street					1			5* 4	
Larkspur terrace	***				***			1	
Lawson street								1	
Leazes crescent			***					3	
Leazes lane							***	1	
,, Arthur s	quare								**
Leazes terrace			***		1				
Lily avenue				***	1				
Lily crescent	***								1
Little Blagdon stree	t				1				
Liverpool street					1				***
Loadman street				***	1			4	***
Long row, Spital To	ngues			***	1*			***	
Longley street				***		***		1	
Lord street					1			2	
Lowrey street								1	
Malcolm street								5	
Maiden street					1				
Manor chare									
" Croft s								1	
Mansfield street	***							4	
Maple street								1	
Marianople street					2*				
Market street							***	2	
				***				2	
Marsden street								4*	
								2	
Matthew street					***			2	
Melbourne street									
Mill lane	***				3				
Mill street	***				1	***		;	
Milton street					***			4	
Mitford street			***		6*	***		1	***
Molineux street					1*			4	1*
Monday street								5	
Monk street					1				
Moor edge		***	/		1				***
Morley street (late (Quarry 8	st.)						3*	
Morpeth street								6	
Morrison street					1			4	
Mosley street					1				
Mowbray street								1	***
Napier street								4	1
Nesham street								3	
		-	100000	10000	1000		100000000000000000000000000000000000000		

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

				* CASES	AND D	EATHS F	ROM	
LOCALITY.		Small- pox.	Typhus Fever.	Enteric or Typhoid Fever.	Con- tinued Fever.	Puer- peral Fever.	Scarlet Fever,	Diph
Neville street								1
New Bridge street		1 3200					"i	
Newcombe street		1					4	
Newgate street		1					î	
New mills							1	
Noble street				3	2		1*	
Norfolk road				1			3	
Norfolk street							3	
Normanton terrace							3	
Northcote street		1 333					2	
North terrace							1	
Northumberland stre				1			1	
North view				1	1			1
0.11				,			,	
Oaks place	***			1	***		1 3	
Orchard street					1	***		ï
Ouseburn, Singleton'								100
Osborne avenue							1 4**	
Otterburn terrace						***		1
Otterburn villas		10000					5	100
Oystershell lane							9	
Palace street							2	
Panmure street				9**	2	***	15	1
Park ville, Heaton							***	1
Parker street +							13	1
Pawton dene gardens							1	
Penn street							1	
" Rowell p	lace						2	
Percy street							2	
" Lax's ga	rdens						1	
., Percy co	urt						1	
Picton place							2	
Pilgrim street							5	
" Bell's court							6***	
" Bell's yard,	Bell's crt	,					1	
" Dean crt., I	ow bridg	е					1	
" Foster's cou	ırt						1	
" Heath cour	t			***			1	
" Mountain's				1				
" Painter heu	igh			1			1	1
" Ridley Arm	s yard			1				
" Robson's co	ourt			1				
Pine street							2	
Pitt street				1*			12	
Plummer street							2*	
Portland road				1			3	
Portland street				1				
Portland terrace							3	
Pottery bank							2	
Prince Albert terrace				1			3	

^{*} The asterisks represent deaths and the numerals the total cases in each street. \dagger Relapsing Fever, 1.

				* CASES	AND D	EATHS F	ROM	
LOCALITY.		Small- pox.	Typhus Fever.	Enteric or Typhoid Fever.	Con- tinued Fever.	Puer- peral Fever.	Scarlet Fever.	Diph- theria
D				1		7		
			***	1	***	***		
N7 1				1999		***		***
No. 1 c	ourt					***	1	***
				***			2	
Pudding chare							1	
Quality row				1			1	1
						1	1	
" Leighton'	s yard			2*	2		1	
							2	
Queen's lane, Kinghor	rn's yard			2*	1		6	***
Raby street							- 3	1
Race street							3	
Railway terrace, Cruci				1				
Daniel and atmost				2	1	1*	3	
Donout street							1	
Dogont townson							3	
Don del street				3*	1		6	
(heal-)						1*	1	
Diahmand atreat				1			4	
Didlow otwoot							3	
(heal-)							1	
Dinnenden stucet							î	
Divon atmost							2*	
Dobinson street								1
Dools ofwood							3	
Dogov atroot							1	
Decedele pleas				2**			3	
Decedele etweet							5	
Danadala tamana							5	
Doth have town on								1
Daggell tormen				1			3	î
Dwobill							1	
				100				
Salisbury street .				1*			5	
Sandyford road .							2	
0 3 0 3			***	1				
0 1 1 1							6	
" (back) .				***			1	
74				14**	1	1*	**25***	2*
" Back Bour	ndary st.			***			1	
Clark days							1	
01 1				3*				
01:136.13							2	
01 1 1 1 2 0 1 3 1							3	
69.1.133							18*	2
(11-)							1	
City to I am administ							15	1
COL.					1			
Cilmon ofwort						***	2	
			100000			1000	1000	***

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

TABLE X .- CONTINUED.

				* CASES	AND D	EATHS F	тем	
LOCALITY.		Small- pox.	Typhus Fever.	Enteric or Typhoid Fever.	Con- tinued Fever.	Puer- peral Fever.	Scarlet Fever.	Diph- theria
								-
Snow street					***		2	
Snowdon street		1		***		***		***
Spring Garden lane				2*				
Spring street		***		***	1	***	3	***
St. Andrew's street							1	***
St. Anthony's quay,	Dock row						1	
St. Cuthbert's terrace							1	
St. James' terrace		***		3	***			
St. Thomas' crescent							2	
St. Thomas' street							2	
Stanhope street		0.000		1			7	
Stanley street, Crossl		1					3	
Walke	er road	10000		1			8	2*
Stanton street							9*	
Stepney bank, Mill y							- 2	
Stepney street, Brown		1 000					4	
614 11 12		300		1				1
Stockbridge Stoddart street		1000					4	
			***	1			19	
Stone street		100000					1.0	
Stowell street, Watso			***	1	***	***	5	
Stratford grove		788		100				
Strawberry lane				***			1	
Strickland street						***	1	
Suffolk street				1				
Summerhill terrace			***		*** ;		1	
Sunderland street			***			***	1	
Swan street				1	***		2	
Sycamore street							4*	
Tamworth road				1*			5	
Tankerville terrace							1	
Terrace place							i	
Teynham street		1200					7	
							i	1*
Thompson street							2	
Thornborough street							1*	***
Thornton street							100	i
Thorpe street								
Trafalgar street							5	
man , (back	7.5						2	
Tulloch street						***	***	2*
Turner street	,			1			6*	
Tuthill stairs, Chapel	yard	***		***			1	
Tweed street (back)							2	
Tyne terrace				***			1	
Tynemouth road							4	1
Tyneside terrace							5	
Union street	20.000		10000000	9*	3.00	-	2	- 1994
Union street							1	
Union townson onet								
Union terrace east south							1	

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

STREET LIST OF CASES AND DEATHS FROM THE UNDERMENTIONED DISEASES.

			* CASE	S AND D	EATHS E	ROM	
LOCALITY:	Smal pox.	The second	Enteric or Typhoid Fever.	Con- tinued Fever.	Puer- peral Fever.	Scarlet Fever.	Diph- theria.
							-
						4	8
						4	
Victoria street			1				
Villa place						1	
" Cross Villa place, 3						1	
Walker road						1	
Wall Knoll, Wilson's yard			1				
Warwick street						1	
Water street			2*	1			
Wellington street			1			6**	
Wantmouth place						4	
Wasley street						13	
(hoal-)						2	
Work ofmost			1			3	
Wastensta word			1	2		4	
777 - 1-1	2		4**		1*		
" Dawson's court			1			1	
Washmanland lane			2				
Westmonland road						1	
Daule navada			1				
Weatmonland atmost			î				
Westmonland tormen						8**	
Whom aliffo atmost			1				7*
Wilford atmost						1	
William atmost						î	
Wolslow road						4	1
Worlds atreat						3	
Wales wood			1			2*	
TOTAL†	5	1	205	42	13	1,004	73

^{*} The asterisks represent deaths and the numerals the total cases in each street.
† To the above Totals are to be added the 2 cases (not fatal) of Relapsing Fever, referred to in the street list (foot-notes).

N.B.—Among the cases notified under the Local Act as Continued Fever, two are certified as having died from Enteric Fever; one case notified as Puerperal Fever is certified as having died from Enteric Fever; 'and one case notified as Diphtheria is certified as having died from Croup. The cause of death only of the first two diseases named is recorded on the street list.

TABLE XI.

ADMISSIONS TO AND DEATHS AT THE FEVER AND SMALL-POX HOSPITALS FROM 1ST JANUARY TO 31ST DECEMBER, 1886.

					- 1	LDM	IISS	101	īs.							1	DE.	ATH	s.	
DISEASES.	Jan.	Feb.	Mar.	April	May.	June.	July.	Aug.	Sept.	Oct.	Nov	Dec.	Total	Jan.	Mar.	May.	June.	Oct.	Dec.	Total
Small-pox	 			1				1					2							
Scarlet Fever	 6	4		4	8	3	2	5	4	5	3	5	44							
Typhus Fever	 1												1							
Enteric Fever	 	1	2	2	1	6	1	5	4	6	4	4	36		1		1	2	1	5
Continued Fever	 						2		2	1	1	2	8	1000						
Diphtheria	 		1		1								2			1				1
Measles	 		6		1	2							9							
Febricula	 		1										2							
Other Diseases, and not febrile	 1		3										4							2
TOTAL	 8	5	13	7	6	11	5	11	11	12	8	11	108	1	2	1	1	2	1	8

TABLE XII.

RETURN OF SUSPECTED AND UNWHOLESOME PROVISIONS INSPECTED DURING THE YEAR 1886.

PPO	VISIONS	Amount	CONDI	TION.	BAD-How	DISPOSED OF.
	PECTED.	of Suspected Provisions Inspected.	Fit for Food.	Unfit for Food.	Destroyed by Order of Justice.	Destroyed with Owner's Consent.
Carcases o	of Beef	 117	66	51	3	48
11	Veal	 18	6	12	***	12
,,	Mutton	 140	84	56		56
,,	Pork	 129	96	33		33

Of the carcases of beef returned as fit for food, eleven of the animals had been injured during the course of transit. All the bruised parts were cut off and destroyed.

Two persons have been proceeded against under the Public Health Act, for being the owners, or being in possession, of unsound meat intended for human food. One was fined £10 and costs; the other, on contributing £10 to a charitable fund, was fined 5s. and costs.

(Signed) WM. HEDLEY, INSPECTOR.

TABLE XIII.

RETURN OF FISH RECEIVED IN NEWCASTLE FISH MARKET, CLOSE, FROM 4TH JANUARY, 1886, TO 1ST JANUARY, 1887.

				DELIVER	ED B	y Bo	AT.			DELIV	ERED BY	RAI	L.	
DESCRIP	TION.		Baskets.	Barrels.	Boxes.	Kits.	Bags.	Fish.	Baskets.	Barrels.	Boxes.	Kits.	Bags.	TOLOGY
Cod			551	471					6	288				
Conger										2				
Gurnet	***		16						10	6				
Haddock			4,259	60					714	210				
Herring			20	13,246		1000			12	1,397	140		***	
Ling			141	272						3.405			***	1
Mackerel				7.7	34			***			1,270		****	1
Salmon					6					***	16			
Trout		***		***						***	1		***	1:
Black Jack		***	53	12	***	1-4	***	***		8	1			
Whiting			281		***								***	
Hake		***	1000000			***		40	***					
Halibut		***	7.0	20	911	***	***	43		100	***			
Plaice			15	63	2	***		***	6	109	15		***	
Skate	***	***	145	51	***		***		26	31		3	***	
Sole	***	***	224	42	12.5			***	29	342			***	
	***	***	67	***	***				2					
Turbot			***	***	***		***	102		***	***		***	
Cat-fish		***		***			***	235						
Monk-fish			151	6	211		***	4	3	4				
Cockles													7	
Mussels	***	200			***				***				609	
Crabs										150				
Lobsters		***		1						3				
Crayfish			137	33					2	32				
Winkles										204				
Prawns			25											
Findon Ha	addoc	ks								226	3,509			
Kippers											10,416			l.
Bloaters									780		7,600			
Sprats				25						102				
Oysters				4		1000	1000	A KASSAN		10		17.0		183
Shark							***				***			
Totals			6,085	14,286	42			384	1,590	6,524	22,967	3	616	1
Cotals in prev	tour m		10.151	9,789	59	1	165	642	591	5,911	27.890	020	350	-

Large and increasing importations of Fish continue to arrive from Norway. Less Fish has been found unfit for food than in former years, and no disease has been observed.

(Signed) WILLIAM T. CLARKE,
CHIEF INSPECTOR OF NUISANCES AND INSPECTOR OF FISH.

TABLE XIV.

INFECTED ARTICLES DESTROYED AND REPLACED BY THE HEALTH DEPARTMENT DURING THE YEAR 1886.

148 Half Straw Mattresses. 25 Straw Beds. 3 ,, Bolsters.	6 Bed Ticks. 7 Flock Beds.
INFECTED ARTICLES PURIFIED I	N THE DISINFECTING APPARATUS.
FROM THE CITY.	FROM THE FEVER HOSPITAL.
231 Feather Beds. 296 Flock ,, 690 Mattresses. 1,080 Pillows. 427 Bolsters. 548 Blankets. 400 Rugs. 91 Counterpanes. 91 Bed and Window Curtains. 101 Cushions. 63 Hearth Rugs and Door Mats. 173 Carpets. 229 Books. 633 Articles of Wearing Apparel. 512 Miscellaneous Articles.	77 Beds. 45 Mattresses. 135 Pillows. 211 Bolsters. 37 Blankets. 30 Rugs. 29 Counterpanes. 914 Articles of Wearing Apparel. 4 Boxes of Nurses' and Servants Clothing 287 Books.

TABLE XV. ·

SUMMARY OF CASES DISINFECTED BY THE HEALTH DEPARTMENT DURING THE YEAR ENDED 31ST DECEMBER, 1886.

				NATUR	E OF D	ISEASE			
PARISH OR TOWNSHIP.	Small- pox.	Scarlet Fever.	Diph- theria.	Typhus Fever.	Enteric Fever.	Simple Con- tinued Fever.	Puer- peral Fever.	Relaps- ing Fever.	TOTAL
Elswick	 2	215	26		82	18	6		349
Westgate	 	238	1		38	9	4		290
St. Andrew's	 1	88	3		24	3			119
St. John's	 2	9	3	1	7	1			23
St. Nicholas'	 	15	2		4	2	1	1	24
All Saints'	 	183	10		25	4			222
Jesmond	 	24	3		3	1			30
Byker	 	221	23		21	4	3	2	274
Heaton	 	11	2		1	3			17
Total	 5	1,004	73	1	205	44	14	2	1,348

In addition to the above 52 inquiries have been made, and disinfection done at houses or rooms where deaths have occurred from Measles or Diarrheea.

TABLE XVI.-NUISANCE REMOVAL.

SUMMARY OF NOTICES SERVED FOR NUISANCES DURING THE YEAR ENDED 31ST DECEMBER, 1886.

-			_		_	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
	Total.	. 49	86	32	236	791		1.084	1,001	000	202	48	138	37	252	145	5	99	39		36	176	30	43	4,125
TOTAL.	Formal	40	65	30	177	663		608	440	000	200	27	130	56	219	120	+	553	933		23	160	5	27	3,276
	Jennolal	0	21	03	59	128		000	100	000	23	22	00	11	600	255	-	13	9		130	16	28	16	849
RICT.	Total.	O.	9	:	14	31		20	11	1001	EOT		13	11	:	55	00	4	00		***	28	1	1	363
No. 4 DISTRICT	Pormal	cr	9	:	13	31		2.2	30.	100	108		13	11	:	94	00	33	00			58	***	:	353
Ň	Informal		: :	:	-	:		C	- 0		1	:	:	:	:	-	:	-	:		:	:	-	-	10
RICT.	Total.	10	16	:	39	186		.96.4	100	200	20	56	22	*	94	30		16	10		7	333	6	20	946
No. 3 DISTRICE.	Pormal	10	15		31	180		500	1111	11	10	57	22	+	52	26	:	14	ŝ		9	200	_	+	848
No	Informal		-	:	00	9		0.7	00	9 -	7	0	::		03	4	:	01	:		-		00	_	86
RICT.	Total.	Cr.	39	16	22	125		929	101	101	10	133	48	119	26	12	5	35	14		14	200	122	16	949
No. 2 DISTRICT.	Formal	0	24	16	44	101		141	101	171	CI	01	41	10	t-	10	-	23	12		00	27	1	<u>-</u>	615
No	Informal		15	:	13	24		110	111	10	10		1	6	19	1-	-	6	Ç3		9	9	11	6	334
RICT.	Total.	36	250	26	126	449		407	940	220	0,	6	20	00	172	48	:	14	17		15	85	00	21	1,877
. 1 DISTRICE.	Pormal	10	202	24	88	351		202	100	101	no	4	19	-	160	35	:	13	13		6.	72		16	1,470
No	Informal	G	1 10	23	37	86		120	100	000	11	20	-	01	12	13	:	-	**		9	10	00	50	407
	, OB	d, as being				cases, etc.	ed drains &	sternwastes	Organia	avinaarai	****	****	:	:			:		opt	g dar	****	****		:	:
	NATURE OF OFFENCE, OR REMEDY REQUIRED.	Rooms ordered to be closed, as being	Rooms cleaned and renaired	Overcrowding	Dilapidated yards and passages	Dirty yards, passages, staircases, etc.	Defective & badly-constructed drains &	sinks, bath, lavatory, & cisternwastes	Weter death abolted and defeater	water-closets choked and delective	New water-closets	Defective soil-pipes	Defective ash-closets	New ash-closets	New ash-boxes	Privies and ashpits defective	New privies and ashpits	Offensive accumulations, etc	Swine and other animals kept	Defective water-spouts, causing damp	in rooms	Water supply	Smoke nuisance	Other nuisances	TOTAL

* By "Informal Notice" is to be understood any communication made verbally or by letter. "Formal Notices" are those served under the Statutes.

During the past year 666 connections have been made with the common sewers.

It has not been found necessary to resort to Magisterial proceedings for enforcing the abatement of nuisance on any occasion during.

TABLE XVII.

1886 .- RAINFALL, MEAN TEMPERATURE, ETC.*

1st Quarter.			2nd Quarter.			3rd Quarter.			4TH QUARTER.			
Week ended.	Rainfall. Inches.	Mean Temp. Deg. Fahr.	Week ended.	Rainfall. Inches.	Mean Temp. Deg. Fahr.	Week	ended.	Rainfall. Inches.	Mean Temp. Deg. Fahr.	Week ended	Rainfall. Inches.	Mean Temp. Deg. Fahr.
Jan. 9 , 16 , 23 , 30 Feb. 6 , 13 , 20 March 6 , 13 , 20 , 27 April 3	0·28 0·83 1·52 0·01 0·07 0·20 0·38 0·56 0·20 1·02 0·33	35·5 32·5 39·6 35·1 32·3 32·5	April 10 , 17 , 24 May 1 , 8 , 15 , 22 , 29 June 5 , 12 , 19 , 26 July 3	0·32 0·55 0·10 0·15 0·77 0·40 0·85 1·08 0·01 0·14 0·04	43·8 44·3 42·8 44·1 54·0 43·5 50·0 50·0 47·8 54·3 52·3 55·0 62·3	July " " Aug. " " Sept. " Oct.	17 24 31 7 14 21 28	0.96 0.50 1.97 0.81 0.36 1.08 0.00 0.00 1.07 0.11 0.07	58:3 57:3 63:7 54:2 56:5 58:3 58:3 61:7 63:2 58:2 52:8 51:2 55:7	Oct. 9 , 16 , 23 , 30 Nov. 6 , 13 , 20 , 27 Dec. 4 , 11 , 18 , 25 Jan. 1, '87	1·19 0·72 0·98 1·64 1·84 0·14 0·04 0·22 0·64 1·92 0·38	55. 51. 49. 46. 43. 44. 35. 38. 33. 33.
Total	5.65	Mean 36.0	TOTAL	4.73	Mean 49.6	Тот	AL	8.44	Mean 57.6	TOTAL	10.47	Mea 43

Total Rainfall during the Year 1886 = 29.29 inches.

Mean Temperature during the Year 1886 = 46.56 deg. Fahr.

HEAVY RAINFALL IN NOVEMBER.

(Extract from Letter of Mr. George Smith, Secretary of the Newcastle and Gateshead Water Company, published in the "Newcastle Daily Chronicle" of 9th November, 1886.)

"The quantity of rain which fell on the gathering grounds of the Newcastle and Gateshead Water Company from mid-day on Friday until early on Sunday morning (say 36 hours) was three inches, equal to about 1,520,000,000 gallons, and 130 days' full supply. The weight of this quantity is about seven million tons. At my house at Gosforth the rain gauges showed 3.20 in, for the same period."

Supplied by the courtesy of Mr. William Lyall, Librarian, Literary and Philosophical Society.