# [Report 1910] / Medical Officer of Health, Newcastle-upon-Tyne City & County.

### **Contributors**

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CITY AND COUNTY OF NEWCASTLE-UPON-TYNE.

THIRTY-EIGHTH

# ANNUAL REPORT

OF THE

# MEDICAL OFFICER OF HEALTH.

ON THE

Sanitary Condition of the City,

WITH

TABULAR RETURNS

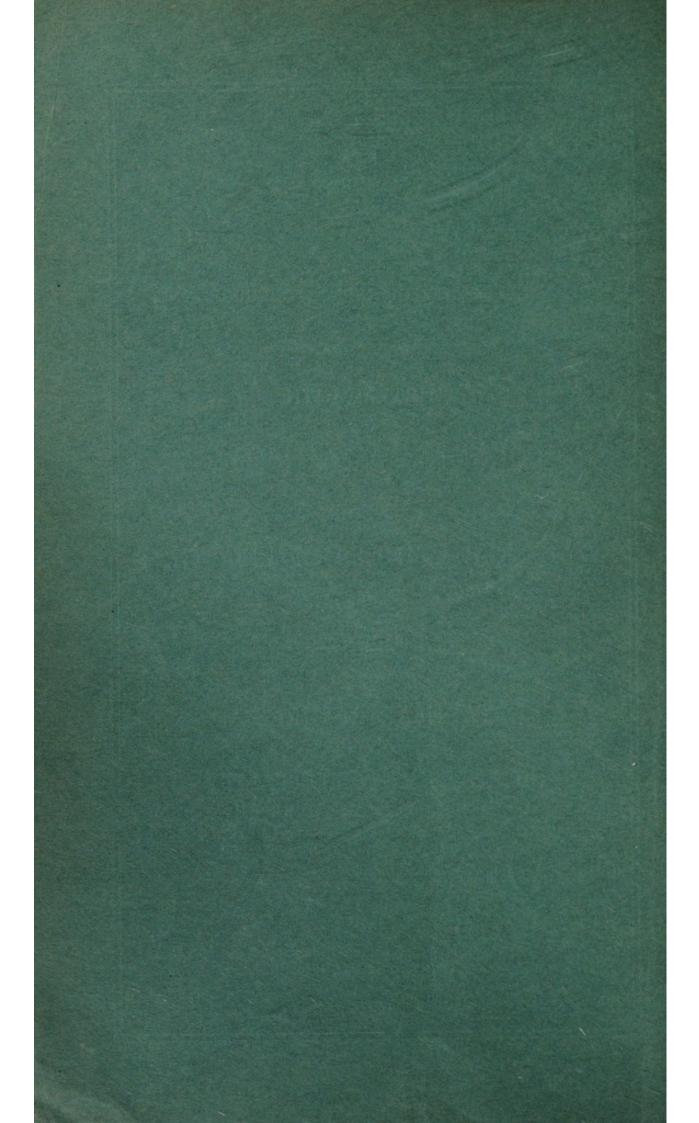
OF THE

SICKNESS AND MORTALITY

DURING THE YEAR 1910.

Newcastle-upon-Tyne: Easey & Best, Printers, 142, Pilgrim Street.

1911



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cases during the year ended 15th January, 1911.

To Ald. Sir Henry 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 Thirty-Eighth Annual Report, viz., that for the year 1910.

The Death-rate (uncorrected) of Newcastle from "All Causes" during the year was 14.9 per 1,000 population, being the lowest on record. (See page 11.) Details as to the general mortality in the different Registration Sub-districts will be found on pages 80-83. The Death-rate (uncorrected) from the seven "Chief Zymotic Diseases," i.e., Smallpox, Measles, Scarlet Fever, Diphtheria and Membranous Croup, Whooping Cough, "Fever," and Diarrhœa\* in Newcastle was 1.2 per 1,000 population, which is also the rate for the 77 largest English towns. (See page 86.)

Marriages (see page 13). In the year ended 31st March, 1910, 1,999 marriages were registered in the Registration District of Newcastle-upon-Tyne (which includes the subdistrict of Benwell and Fenham, but not that of Walker), an increase of 8 on the number (1,991) during the previous twelve months.

Infant Mortality.—The deaths of infants under one year of age (928) shew a decrease of 12 on the returns for the previous year, and represent a rate of 123 deaths per 1,000 births, the rate for 1909, (viz. 122) being the lowest on record. This relatively low mortality is largely due to the coldness of the summer, together with the reduction in numbers of house and other flies, and the consequent absence of diarrhea, as also, without doubt, to the continued unremitting attention of the Superintendent of Midwives and the two Health Visitors. It is of interest to note that rather more than half the deaths under this head occur during the first

<sup>\*</sup> Dysentery, Epidemic and Zymotic Enteritis, and Intestinal Catarrh included.

three months of life, while one-third of the total are due to prematurity, accidents of child-birth, or congenital defects. See pages 13, 84 and 85.

The particulars of work done in connection with the Notification of Births Act, 1907, and under the Midwives Act, 1902, are given in the Report of the Superintendent of Midwives (Miss E. Renaud), on pages 33 to 38.

Health Visitors.—Considerable loss of efficiency continues to be felt in the Department as the result of the discharge of four of these officers in 1909. The Medical Officer of Health endeavoured to obtain their re-instatement at the commencement of the financial year, but without success.

Zymotic Diseases caused 331 deaths, against 343 in the previous year. The most prominent of these diseases were Diarrhea, Measles and Whooping Cough, from which 103, 87, and 79 deaths occurred respectively, against 50, 112 and 70 in the previous year. (See page 12).

The number of deaths from Scarlet Fever was 12 against 34 in the previous year. The mortality from that disease per cent. to cases notified was 2.1, as compared with a rate of 4.0 for the year 1909. 574 cases of Scarlet Fever were notified, a decrease of 270 on the returns of the year before.

Enteric (or Typhoid) Fever caused only 9 deaths, against 19 in the previous year. The rate of mortality to cases notified was 14.3 per cent. as compared with 25.7 in the year 1909. The number of cases notified (63) shews a decrease of 11 on the previous year's return. The highly satisfactory decrease in numbers of notifications and deaths under this head is doubtless to a great extent due to improved sanitation consequent on the conversion of a large number of privies and pail-closets into water-closets. (See page 87.)

Diphtheria and Membranous Croup caused 40 deaths, a decrease of 15 on the previous year's return. The rate of

mortality to cases was 9.0 per cent. as against 12.7 in the previous year. The total number of cases notified (443) shews a decrease of 13 as compared with that of the previous year. This gratifying decrease in mortality is justification of the action of the Sanitary Committee in affording a free supply of Diphtheria Antitoxin to the medical practitioners of the city.

Epidemic Cerebro Spinal Meningitis.—Particulars of the occurrence of 4 cases of Epidemic Cerebro Spinal Fever are given on page 19. The notification of this disease (which was temporarily adopted during 1909) was made permanent from December 1st, 1910.

Typhus.—Details of three small localized outbreaks of Typhus are given on pages 22-23. The preventive measures taken by the Health Department were in the highest degree effective, and serve to shew the protective value to the community of such action when applied with promptitude, energy, and thoroughness.

Hospital for Infectious Diseases.—908 patients were admitted to the City Hospital for Infectious Diseases at Walker Gate. This number is the second largest on record. The highest is 1,090 for the year 1909. The proportion of patients removed to Hospital was 82.7 per cent. of the cases notified (excluding Puerperal Fever and Erysipelas). The mortality to cases was 6.69 per cent. Details are given on pages 26-29.

Smallpox and Isolation Hospitals.—It was found necessary to have one or both of these hospitals in practically constant use throughout the year, for the accommodation of Smallpox (3 cases), Smallpox and Typhus contacts, and Chickenpox, and also as a relief to the overfull Scarlet Fever Wards at the City Hospital, Walker Gate.

The number of cases of Infectious Diseases notified by medical practitioners (see page 14) was 1,287 against 1,584 in the previous year. Phthisis.—The number of cases of Phthisis in poor persons notified during the year under the Public Health (Tuberculosis) Regulations, 1908, is given on page 20. As stated in previous reports, the extension of the notification of Consumption to cases in all classes of society, is greatly to be desired. The action now being taken to deal with this disease, together with certain suggestions for the extension of the system, are set forth in the main body of this Report. See pages 20-22.

One of the most noteworthy sanitary events of the year was the Tuberculosis Exhibition held in the city during the last week of July and the first week of August. For copy of the report thereon, see Appendix B.

The *Uncertified Deaths* registered are 10, against 11 in the preceding year.

Customs and Inland Revenue Act, 1890, s. 26 (2).

Two applications, respecting six houses, for certificates entitling the owners to exemption from inhabited house duty were made during the year. The certificates were not granted.

Insanitary Dwellings dealt with under the Newcastle Improvement Act, 1888, sec. 32.

A total of 57 houses, comprising 70 holdings, including several Cellar Dwellings and a Common Lodging House, have been dealt with during the year. For details see pages 77-78.

BACTERIAL EXAMINATIONS.

The Report of the Bacteriologist (Prof. H. J. Hutchens) is given on page 39.

Tuberculous Cows' Milk Sold in Newcastle.

During the year under report, samples of milk purchased in course of delivery or at dairies in the city, and produced at farms in the undermentioned localities, have been found, on bacterial examination, to contain Tubercle Bacilli, viz.:—

Identifica-

- 94. Chevington.—Sample collected 9th March. Supply of milk stopped by Dairy Company to whom it was consigned on recommendation of Medical Officer of Health pending investigation. Clinical examination of herd shewed one cow with a tuberculous udder, and two others suspicious. Farmer undertook to remove these from herd. Three further samples taken in June and July all negative.
- 96. Stocksfield.—Sample collected 16th March. Supply stopped by Dairy Company in Newcastle on recommendation of Medical Officer of Health pending investigation. Clinical examination shewed one cow to be tuberculous and it was removed from the herd. Farmer declined to have the Tuberculin test applied. Four further samples taken in June and July, one of which was tuberculous. The Dairy Company agreed to cease taking the milk.
- 108. Temple Sowerby.—Sample collected 20th April, 1910.

  After two months delay, the Clerk to the Rural District Council forwarded report on the sanitary condition of the byres, &c. at the farm, but made no mention of any examination of the cows. The Dairy Company in Newcastle were therefore recommended to stop the supply, which they did.

Four further samples taken in June and July were negative.

116. Carlisle.—Sample collected 4th May. The herd was clinically examined, and one doubtful cow was removed.

4 further samples were taken in June and July, and 2 were found to be tuberculous. The Medical Officer of Health of Newcastle therefore recommended the Dairy Company to stop the supply, which was done.

Identification No.

- 126. Kirkbride.—Sample collected 15th June. The Medical Officer of Health for Cumberland had a sample of milk from one cow examined bacteriologically. The result was negative as regards tubercle. The Medical Officer of Health for Newcastle then wrote to the Medical Officer of Health for Cumberland pointing out that this threw the onus on the rest of the herd. No further information was received.
- 203. Newcastle.—Sample collected 14th December. The Veterinary Officer examined the herd and found one cow with a tuberculous udder. The cow was removed from the herd.

The foregoing list of cases illustrates the danger to which the citizens of Newcastle are continually and insidiously exposed of contracting Tuberculosis through the medium of milk sent to them from dairies beyond the jurisdiction of the civic authorities by farmers who make their living by this traffic. In the Annual Report of the Medical Officer of Health for the year 1909, attention was drawn to the fallacious arguments by which the Northumberland and Durham Dairy Farmers Association vainly attempted to defend their objections to the tuberculin test before the Sanitary Committee of the Newcastle Corporation. These efforts were mainly based on three foundations, viz. :- 1st, disbelief in the ability of the tuberculin test; 2nd, the desire for compensation for animals found diseased; 3rd, their objection to the Corporation of Newcastle initiating procedure for the detection of the disease on their farms in advance of the action taken by the sanitary authorities, both of neighbouring districts and generally throughout the country. These views put forth by a respectable body of tradesmen can only be regarded as the result of failure to appreciate this serious question from any other than its strictly localized commercial side.

The English are blamed by foreign governments, (United States, Argentine, &c.) for causing Tuberculosis among herds in different parts of the world by sending out diseased highbred stock to these countries. Whilst the wide extent of the disease among cattle in Great Britain is generally acknowledged, no attempt has as yet been made by the Board of Agriculture to ascertain the number of animals affected. The only statistics on this matter before the Royal Commission were those obtained from Denmark and Germany.

OTHER WORK OF THE HEALTH DEPARTMENT.

The Report of the Inspector of Nuisances, Common Lodging Houses, &c. (Mr. Wm. Hudspeth), is given on pages 40 to 60.

The Report of the Veterinary Officer and Inspector of Provisions, &c. (Mr. Thos. Parker, F.R.C.V.S.), is given on pages 61 to 75.

Barrasford Sanatorium for Consumptives.

During the twelve months ended 15th January 1911, a total of 74 Corporation patients were admitted for treatment in the Sanatorium. The Reports on these cases are given in Appendix C.

Oaths Act.—Useful sanitary reform was inaugurated when this measure became law. By it the filthy and dangerous practice of "kissing the book" was abolished, and the affirmatory form of oath substituted for swearing witnesses, etc., in Courts of Justice.

The Work of the Staff of the Health Department.

As on former occasions, the Medical Officer of Health has the satisfaction to record his acknowledgement of the excellent service rendered to the city by the respective staffs of the divisions of the Department under his charge.

I have the honour to be, Sir,
Your obedient Servant,
HENRY E. ARMSTRONG, D.Hy.,
Medical Officer of Health.

Town Hall, Newcastle-upon-Tyne, 8th May, 1911.

## CITY AND COUNTY OF NEWCASTLE-UPON-TYNE.

# REPORT, 1910.

### GENERAL STATISTICS.

DURING the 52 weeks ended 31st December, 1910, 7,543 births and 4,252 deaths were registered in the City. The births represent a rate of 26·4 and the deaths a rate of 14·9\* per 1,000 of a population of 285,951 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 the year under report and previous years:—

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

TES OF	MORTAL	ITY PE	R 1,000	Popula'	TION OF	NEWC	CASTLE-	UPON-	TYNE.
A.D.				All Causes.		Seven '	· Chief Z	ymotic	Diseases."
					erage for			1	Average for
1870					e Decade.				he Decade.
		***		25.4	***		***	3.9	
1871		***	***	32.2	***	***	***	9.3	
1872	***		***	26.3			***	4.5	
1873	***		***	30.1		***		6.9	
1874	***	***	***	29.2	26.2	***	***	5.5	4.7
1875	111	***	***	26.1				3.6	
1876	***	***	***	22.7			***	2.6	
1877	***	***		22.3	***		***	2.5	
1878	111		***	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	23.5	***		4.4	3.1
1886	***	***	***	22.2		***	***	0710012	
1887	***	***		25.2		***	111	2.5	
	***	***	***	77.7		***	***	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				20.9				2.3	
1894				18.0				1.9	
1895				20.0	20.6			2.1	1.96
1896				18.4				1.8	
1897				18.7				1.6	
1898				20.9				2.2	
1899				20.2				1.6	
		57.5							
1900	***	***	***	19.1	***		***	1.2	
1901			***	21.2	***		***	2.2	
1902	***	***	***	19.6	***		***	1.6	
1903	***			18.6			***	1.1	
1904	***	***		The same of the same	8.3	***		1.5	4.5
1905	***	***	***	17.4			***	1.3	1.5
1906	***	***	***	18.0				2.1	
1907	***			16.8				1.4	
1908			****	17.3				1.3	
1909				15.9/				1.2	
1910				14.9				1.2+	
1010	***			14.0			***	1.21	

<sup>\*</sup> This return includes all deaths in the City Hospitals for Infectious Diseases. By deducting the deaths in the Royal Victoria Infirmary (347) and the Fleming Memorial Hospital (48) of non-citizens the rate is reduced to 13.5.

 $<sup>\</sup>dagger$  Deducting deaths from diseases not ordinarily notifiable (Measles, 87; Whooping Cough, 79; Diarrhæa, 103), the rate is 0.2.

Births and Deaths.

The numbers of births and deaths in the different Registration Sub-districts of the City during the year 1910, are given in Appendix A, Table I.

The mortality from the "Chief Zymotic Diseases" during successive seasons of the year is as follows:--

Mortality from Chief Zymotic Diseases.

"CHIEF ZYMOTIC DISEASES."-NUMBER OF DEATHS IN 1910.

		Total.	-	87	12	40	79	:	6	:	103	52 131 108 331 §
		Ath Qr.	:	42	77	10	28	:	8	:	- 51	108
	CITY.	3rd Qr.	1	34	-	6	19	:	-	:	67	=
	0											12
		2nd Qr.	:	Ξ	60	9	22	:	:	:	10	10000
		ng ast	_	:	4	15	10	:	5	:	10	40
		Total	:	7	10	25	10	:	00	:	6	69
	WALKER.	4th Or.	1	60	01	IC)	10	:	60	- 1	:	100
	LKI	3rd Or.	1	01	-	1	60	:	-	- 1	1	21
	WA	2nd Qr.	1	01	60	in	-	:	:	- 1	61	13
		1st Qr.	1	:	4	00	-	:	4	:	:	925 30 70 17 13 21 18
		Total.	:		:	01	27	1	1	:	7	20
CITY	2	4th Qr.	:	01	:	:	60	:	:	:	ic	08
5	BYKER.	3rd Qr.	:	10	:	:	3 13	:	:	:	-	100
9	By	2nd Qr.	:	:	:	:	00	-	:	:	-	6
AND		1st Qr.	1	15 12 27	:	01	60	1	1	:	-	9
	-	Total				-	10			- :	01	
SUB-DISTRICTS	SAINTS'.	4th Qr.	:	3 13	:		4	:	-	- :	-	7 39
FE	NIN	3rd Qr.	:	10	-:	- :	10	-	-	- :	7	
S				10	- :	-:	9	-:	:	- :	01	1 14 17
0.2	ALL	2nd Qr.	:		-:		-	-:	:	:	_	-
5		lst Qr.		:	- :	- :	:	- :	- :	- :		
	St.Andrew's +	Total.		13	- :	4	61	- :	1	- :	20	9 40
REGISTRATION	EW	4th Qr.		=	- 1			:	:	:	60	20 15
E	KDR	3rd Qr.			:	- 1	0.1	:	:		17	20
L S	A.	2nd Qr.		-	:		:	:	:	:		-
S	ő	1st Qr.	_	:	:	65	- :	:	:	:		4
EG		Total.	:	7 12	:	61	6	:	:		20	43
~	DLA	4th Qr.	:		:	01	4	:	:	:	4	21 17
	CHC	3rd Qr.	:	10	:	- 1	-	:	:	:	10	21
	ST.NICHOLAS'.	2nd Qr.	:	:	:	- 1	01	:	:	:	<u>:</u>	61
	S	lst Qr.	:	:	:	- 1	01	:	:	:	-	60
la d		Total.	1	=	01	01	10	:	-	:	7	9
	ж.	4th Qr.	:	10	61	-	01	-	1	1	60	1340
	WIC	3rd Qr.	1	7	:	- 1	-	-	1	:	00	65
	ELSWICK.*	2nd Qr.		01	:		4	•	:	:	60	9 13
	H	lst Qr.		:	:	-	00	-	-	:	:	10
		10030.	1	7	;	4	9	-	1	- :	6 616	
	1.	32, 036	:	-	:	-	:	-	:	-:	61	00
	VEL	and the		01	:	61	:	:	:	:	9	7
13	BENWELL.	-07 puz		-	:		-		:	:	61	4
	B	lst Qr. 2nd Qr. 3rd Qr. 4th Qr. Total.		:	:	1	-	- :	-	:	61	+
-	-	-01		:	-		:	-	-	= :		4 414 830
				1	na		-	-	eve	= .	an an	
			1		ati				F	or	nic .	
			:	:	ar.	dn	-		(Pi	₽ :	clucking, tis, tis, h.)	:
					Scarlet Fever (Scarlatina)	Diphtheria and Membranous Croup	Whooping Cough		Enteric (or Typhoid) Fever	Simple Continued or III- defined Fever	Diarrhœa (including Dysentery, Epidemic or Zymotic Enteritis, and Intestinal Catarrh.)	
				:	) JE	Diphtheria and Membranous C	on	er	34	eve	E E	00
				:	SVE	a a	C	ev	r.1	F	CE. a	TOTALS
-			XO	00	H	eri	ing	T	0	Se C	er. c ral	Lo
13			dl	sle	let	th	do	snı	ric	She	rr out	5
1			Smallpox	Measles	ar	iph	ho	Typhus Fever	ate	m	ia ysc m	
			S	M	S	D	3	E	田	S	520D	
-	-				-		-					-

\* Includes Union Workhouse. † Includes Royal Victoria Infirmary and Fleming Memorial Hospital for sick children. † Includes City Hospital for Infectious Diseases. § Representing a Rate of 1·2 per 1,000 population.

The most fatal Zymotic diseases have been Diarrhoa, Measles, and Whooping Cough, from which 103, 87, and 79 deaths respectively are returned.

Diarrhoea. Measles, and Whooping Cough.

#### INFANT MORTALITY.

The number of Infants dying before the completion of the first year of life is 928, as compared with 940, 1,169, and 1,009, respectively in 1909, 1908, and 1907.

Infant

REGISTRAT SUB-DISTRI		Deat Children 1 year		Rates per cent. of Deaths under 1 year to Births registered.		
			1910.	1909.	1910.	1909.
Benwell			100	101	11.0	11.1
Elswick			158	195	10.7	12.6
St. Nicholas'			118	115	12.7	11.8
St. Andrew's			119	109	16.6	14.5
All Saints' -			121	113	12.8	11.9
Byker			242	230	11.8	11.2
Walker			70	77	13.4	15.4
City			928	940	12:3	12.2

## UNCERTIFIED DEATHS DURING THE YEAR 1910.

10 deaths have been registered for which no proper medical certificate has been given or inquest held, as compared with 11 during the previous year.

Uncertified Deaths.

#### MARRIAGES.

The number of marriages registered in Newcastle-upon- Marriages Tyne (Superintendent Registrar's district+), during each of the past ten years (1901-1910), is as under:

Year ended March 31.	Number of Marriages.	Year ended March 31.	Number of Marriages.
1901	2,077	1906	2.164
1902	2,277	1907	2,300
1903	2,167	1908	2,018
1904	2,133	1909	1,991
1905	2,181	1910	1,999

<sup>+</sup> Includes the old Municipal area and the Townships of Benwell and Fenham, which were incorporated in November, 1904, but does not include the Registration Sub-District of Walker, as it forms part of the Sub-District of Longbenton. The figures for Walker are not given separately in the returns of the Registrar-General.

### INFECTIOUS DISEASE INQUIRY.

# Cases of Infectious Disease known to the Health Department.

Notification of Infectious Disease. During the year under report the following cases of Infectious Disease have been made known to the Medical Officer of Health by medical practitioners and otherwise.

	CASES KNO HEALTH DE	WN TO THE EPARTMENT.
	1910.	1909.
Smallpox	3	_
Scarlet Fever	574	844
Diphtheria (including Membranous		
Croup)	443	456
Typhus	10	6
Enteric (or Typhoid) Fever	63	74
Simple Continued Fever	1	
Puerperal Fever	4	11
Erysipelas	- 182	169
Epidemic Cerebro-Spinal Meningitis	7	24
	4	
TOTAL	1,287	1,584

Infectious Diseases in the respective Wards of the City. The following Table shows the different diseases in the respective Wards of the City:—

WARDS.	Smallpox.	Typhus.	Continued Fever.	Scarlet Fever.	Diphtheria (including Membran- ous Croup).	Enteric (or Typhoid) Fever.	Puerperal Fever.	Erysipelas.	Epidemic Cerebro- Spinal Meningitis.	Total.
Benwell				25	32	2		20	3	8:
Fenham				25	24	1		9		59
Elswick East				22	4	1		10		37
Elswick North				16	23	1	***	8	1	45
Elswick South		6		42	38	3	1	13		103
Arthur's Hill				40	41	4	1	32	1	119
Westgate North				7	12	***		6		2
Westgate South				10	6	1		6		2
St. Andrew's North				40	15	3	2	7	***	6
St. John's				1	***	***		***	444	
St. Nicholas'				2				1	***	
All Saints' West				1		5		2	1	
All Saints' East	. 3		1	26	22	1		15		6
All Saints' North		3	***	29	11			7		5
St. Andrew's South					4			4	***	
Jesmond				64	58		***	3	1	12
Heaton				84	50	8		9	***	15
Byker				114	51	22		24	***	21
Walker				26	52	11		6		9
City	3	10	1	574	443	63	4	182	7	128

# RETURN SHOWING THE NUMBER OF HOUSEHOLDS, &C., IN WHICH INFECTIOUS DISEASE WAS NOTIFIED DURING THE YEAR 1910.

		I		Public				
DISEASES.	Single Cases.	2 Cases each.	3 Cases each.	4 Cases each.	5 Cases each.	6 Cases each.	Institu-	TOTAL
Smallpox	3							3
Scarlet Fever	365	61	19	3	1		6	455
Diphtheria (including Membranous Croup)	327	34		3	1		5	370
Enteric (or Typhoid) Fever	40	3	2			1	2	48
Continued Fever	1							1
Puerperal Fever	1						2	3
Erysipelaś	144	3					3	150
Epidemic Cerebro- Spinal Meningitis	6							6
Typhus	1		1			1		3
TOTAL	888	101	22	6	2	2	18	1039

No. of Infected Households

\* See page 25.

Scarlet Fever in relation to School Attendance.—Of the house-holds infected with Scarlet Fever, 388 contained scholars of one or other of 62 different schools in the City. Scholars of 15 of the largest elementary schools resided in upwards of 10 of such households during the year, the largest number of such households from which children attended any one school being 25.

Scarlet Fever in relation to School Attendance.

In one school there was infection in the households of its scholars during ten months of the year, in five schools during nine months, and in seven schools during eight months.

Rate of Scarlet Fever and Diphtheria in City Council Schools.— Through the courtesy of the Secretary to the Education Committee, Mr. A. C. Coffin, who has furnished the average daily attendance at each of the Council Schools of the City, it has been possible to prepare the following statement, shewing the percentage of

Rate of Scarlet Fever and Diphtheria in Council Schools. households of scholars in which Scarlet Fever and Diphtheria was notified to the average number of scholars in each school:—

School.			P	er cent. of H	
School.			Sca		Diphtheria.
Arthur's Hill				0.4	0.5
Atkinson Road				0.6	0.6
Bath Lane				0.2	0.5
Bentinck				0.4	0.7
Blenheim Street				1.3	0.2
Bolam Street				1.0	0.8
Chillingham Road				1.2	0.3
Canning Street				0.5	1.3
Clarence Street		***		0.7	0.7
Diana Street	***	***		_	_
Denton Road		***		_	_
Delaval				0.4	1.1
Elswick Road				0.9	1.3
Elswick Works				1.3	0.9
Heaton Park Road				1.6	1.2
Mitford Street				1.5	0.1
North Heaton				0.9	0.3
North View				1.7	0.9
Ouseburn				1.1	0.2
Raby Street				0.8	0.5
Royal Jubilee				0.2	0.6
Shieldfield				0.4	0.6
South Benwell				0.4	1.0
Spital Tongues				4.0	0.4
Saint Peter's				1.3	0.4
Sandyford Road				1.1	0.6
Todd's Nook				0.8	0.8
Victoria Jubilee				0.9	0.6
Walker East				0.6	3.3
Walker West				0.4	0.5
Walker Gate				0.7	_
Welbeck Road		***		1.8	0.8
Westmorland Road				1.2	0.3
Westgate Hill				1:3	0.9
West Jesmond				2.3	1.0
Wingrove				1.5	0.3
Brosse					

The Medical Officer of Health continues to inform principals of schools of the presence of infectious diseases in the homes of their pupils, as also of the cessation of infection. A daily return of cases in the homes of scholars is also forwarded to the Principal Medical Officer of the Education Committee.

Diphtheria in Walker.—52 cases occurred in this district during the year, 46 separate households being affected. The cases were spread over the whole year, being somewhat more numerous in the autumn, as is shown in the subjoined table:—

#### Notifications received.

Month ... Jan. Feb. Mar. Apr. May. June. July. Aug. Sept. Oct. Nov. Dec. Total. Cases... 1 4 5 2 3 5 5 7 6 6 7 1 52

7 cases occurred in Church Street, 6 each in Welbeck Road, Middle Street, and White Street, and 5 in Byker Street.

19 cases occurred among the scholars of Walker East School, and 12 among other members of the households of scholars attending this school. The school has been carefully inspected on several occasions in conjunction with the Principal School Medical Officer, who took many swabs from scholars, and has since made various valuable recommendations to the Education Committee, referring notably to the use in common of pens, pencils, plasticine, towels, etc.

17 households obtained their milk from a common source, but nothing was found which could cause the dairy to be suspected as a source of infection.

Supply of Diphtheria Antitoxin.—In order that the sufferers from Diphtheria might receive this remedy at the earliest possible moment, the Sanitary Committee decided to supply Antitoxin free to medical practitioners for use in cases occurring within the city, commencing from 23rd April, 1910. Each medical man who signifies his willingness to use the serum is supplied with one or more doses to keep by him in readiness for emergency.

#### Distribution was made as follows:-

Number of medical practitioners who made application for Antitoxin	85
Number of phials of Antitoxin supplied	
Number of cases of Diphtheria notified between 23rd April	
and 31st December	286
Number of cases of Diphtheria removed to Hospital	216

Number of Hospital cases in which Antitoxin was inject prior to admission	ted 98
Estimated number of doses administered to cases wh remained at home, or to contacts as prophylactic	
Estimated number of phials, as yet unused, in the poss sion of medical practitioners	ses- 100

It is yet too early to draw emphatic conclusions from this experiment, but some striking facts appear in connection with the laryngeal cases of Diphtheria admitted to hospital. These are shown in the following table:—

,	LARYNGEAL	CASES OF DIPH	THERIA.
	Number.	Case Mortality.	Proportion requiring Tracheotomy
1909	58	22.4%	39.8%
1910	43	11.6%	37.0%

Infectious Disease in Relation to Milk-supply.—The source of the milk supply was ascertained in every case of fever. Only once was there reason to suspect that the milk was responsible for the conveyance of infection.

During the months of April and May there occurred 17 cases of Scarlet Fever in 12 households supplied by a particular dairy. This is one of the cleanest and best kept in the city, and, although most thorough and careful inspections of the employees, animals, and premises were made by the Medical Officer of Health, the Veterinary Inspector, and the Special and District Inspectors, nothing whatever was discovered that might give rise to or convey infection.

Puerperal Septicæmia.—Inquiries were made concerning 4 cases, which were notified as follows:—Workhouse 1, Royal Infirmary 2, Elswick district 1. One case had been sent to the Royal Infirmary from Gateshead; of the remaining 3, 2 occurred in the practices of medical men, and 1 had been attended by a midwife. Full enquiry was made into each case.

Epidemic Cerebro-Spinal Meningitis.—7 notifications of this disease were received during the year; 4 proved to be true cases, viz., 1 each month in January, May, July, and November. All four patients died. There was no discoverable connection between them.

The particulars are as follows:-

Month.	Patient's		Occupation,	Home District.	Place of Death.	Whether bacterio- logically verified.	
	Sex. Age.			Tronc Brounes	Time of Death,		
January May July November	F. M.	15 19 26 21	Errand boy. Housewife. Miner. Clerk.	Benwell. Benwell. Benwell. Elswick.	Home. City Hospital. Home. Royal Infirmary.	Yes. Yes. Yes. Yes.	

The first 3 cases were visited by the Assistant Medical Officer of Health. On the diagnosis being established, in only one instance was it possible to remove the patient to the City Hospital.

37 contacts were kept under observation for a period of 21 days each. No spread of infection occurred among these.

On the recommendation of the Sanitary Committee, the Council declared Epidemic Cerebro Spinal Meningitis a notifiable disease under Sec. 6 of the Infectious Diseases Notification Act until further notice. This was agreed to by the Local Government Board, the arrangement coming into force from December 1st, 1910.

Tuberculosis.—Since the discovery of the Tubercle Bacillus 30 years ago, and the knowledge that the disease is preventable, a most marked improvement has taken place in the death-rate from Consumption. From 2·4 deaths per 1,000 population in 1889, the mortality from Phthisis in Newcastle has declined steadily to 1·16 in 1910. Many influences have been at work in bringing about this great saving of life; among the chief of which may be mentioned the higher standard of housing now insisted upon, and the greater cleanliness of the city and its inhabitants; the gradual disappearance of the old fear of fresh air; and last, but

by no means least, the improvement in wages, and the better feeding and power of resistance to disease of the poorer classes, who suffer most severely from Phthisis.

Special measures are adopted by the Health Department in the endeavour to stamp out the disease entirely. These include the visiting (at least once a month) of all poor persons resident in the city concerning whom notification has been received under the Public Health (Tuberculosis) Regulations, 1908. Cleanly and careful habits are inculcated, disinfectants are supplied, and disinfection of clothing, bedding, etc., and of rooms after removal, or after the death of the patient, is carried out. In some cases paper handkerchiefs and spittoons are provided. The scope of these Regulations is to be extended considerably in the current year, so that information of a much larger proportion of the persons suffering from Phthisis will be available to the Department.

During the year 1910 the following cases were notified under the Public Health (Tuberculosis) Regulations, 1908:—

FORM A.	FORM B.	FORM C.	FORM D.	
Workhouse Inmates.	Persons residing in the City, reported by Poor Law Medical Officers.	Persons reported by Superintending Poor Law Officer, as leaving the Workhouse.	Change of address, reported by Relieving Officer.	TOTAL
74	78	73	8	233

1,582 visits were paid to the homes of these patients by the Special Inspectors.

20 beds are maintained by the Corporation at the Barrasford Sanatorium for the treatment of suitable early cases of the disease occurring among the poorer citizens. During 1910 there were 119 applicants for treatment, of whom 74 were passed as suitable and admitted to the institution. (See Appendix C.)

But what becomes of the advanced cases? They remain in the town working till absolutely unable to do so any longer, and after lingering on at home, die. Meanwhile they are acting as foci for the wholesale distribution of virulent infection. A small proportion drift into the Workhouse Infirmary to end their days. They at least are rendered harmless during the latter part of their illness. There is no provision available for the segregation of the other cases.

No means exist in this city for prohibiting spitting in public places—a serious lack.

A most laudable effort to teach the people how to avoid receiving or disseminating infection was made by the Sanitary Committee in inviting the National Association for the Prevention of Consumption to allow their fine exhibition to visit Newcastle. Every possible effort was made to ensure successful results, and the Committee have no reason to doubt that their object was attained. By close co-operation with the Education Committee, Friendly Societies, Charities, Trade Unions, and all persons and associations interested in work among the poor, full advantage of the exhibition and lectures was taken by those whom it was desired to reach. It is difficult to estimate results, but there is no doubt that this enterprise has had a remarkable effect in reaching the working classes.

To teach people to protect themselves is to act on right lines, and much is now being done in the schools, and by the various societies, to attain this object. In passing, it is not out of place to mention here that the general tone of the poorer classes in regard to domestic cleanliness has received a very pronounced stimulus in the institution of medical inspection of school children. The Health Visitors report, inter alia, that they seldom see any of the severely verminous conditions in children that used so commonly to prevail; whilst cleanliness of the other members of the household and of the house itself follows naturally upon the higher standard required of the children. (For further particulars respecting the Tuberculosis Exhibition see Appendix B.)

What is still required is the establishment of a system by means of which incipient cases of the disease may be sought out in the families of the patients, and the dangerous advanced cases removed to some institution where they can do no harm.

The following is the distribution, as regards housing, of 278 of the 331 cases of Phthisis which died during the year.

These are the cases which died in their own homes, the remainder dying in various institutions:—

No. of Rooms in House.	Approximate Rent.	No. of Deaths.	Average number of Houses among which there occurred one death.
1	2/- to 3/- per week.	25	181
2	2/9 to 6/- per week.	112	124
3 and 4	3/- to 8/- per week.	126	177
More than 4.	£20 to £30 per annum.	15	686
Al	classes of dwelling	278	183

Typhus.—10 cases, in three distinct outbreaks, occurred during the year.

In the first were 6 cases in one family, in Ramshaw Street; these, as connected with an outbreak in the latter part of 1909, were described in the Annual Report for that year.

The second outbreak consisted of an isolated case in Cut Bank. The patient was a carter, and the source of the disease was not ascertained.

The third outbreak occurred in the family of an itinerant musician of irregular habits, resident in a cellar dwelling in Rosedale Street. Three individuals were infected, the virus in all probability having been conveyed by the musician from some outside source.

All 10 cases were removed to the City Hospital, Walker Gate, where they recovered.

57 contacts were kept under daily observation for three weeks, 4 being segregated for a fortnight in the Isolation Hospital, Town Moor.

The following are the details of the cases:-

Date.	Number of Patients.	Sex.	Age.	District.
Jan. 3	 6	M. F.	48 46	Elswick.
		F. F.	16 13 12	
June 27	 1	M. M.	5 23	All Saints.
Oct. 15	 3	F. F.	32 6 4	Shieldfield.

Smallpox.—3 cases, of whom 1 died, occurred during the month of February, the source of infection being a grain ship from the Black Sea, the captain of which was discovered in Whitley Bay to be suffering from well-marked Smallpox a day or two after the ship's arrival in the Tyne. The eruption was believed by him to be due to "grain fever."

Fourteen days later a quayside labourer, who had assisted in unloading cargo from this ship, developed Smallpox. Four days after this a storeman, who had been employed about the same ship, also developed the disease. On the following evening (Saturday) a case was discovered in a large model lodging-house which accommodates 600 men. This last was a Brazilian seaman, who, although contact with affected persons could not be actually discovered, was living in the infected district.

In connection with this case considerable difficulty was experienced in dealing with contacts, the house being full, not only of lodgers, but also of casual visitors. Names and addresses, however, were obtained, and all who refused vaccination were followed up and kept under close surveillance for a fortnight, many going on to other towns, warning of their destination being sent forthwith to the respective Medical Officers of Health.

Altogether there were 336 contacts with one or other of the 3 cases; of these, 13 were sent to the Isolation Hospital for observation, and 209 were vaccinated, but this latter was accomplished only on an undertaking being given to compensate the respective persons for any loss of earnings which might result from the operation. In all, some £12 was paid on this account alone, a further sum of £16 being paid to contacts detained in the Isolation Hospital.

Fortunately the prompt handling of the outbreak completely checked it, and no further cases occurred.

The fol	lowing	are the	details of	the cases:-
---------	--------	---------	------------	-------------

Date of Notifica- tion.	Sex.	Age.	Occupation.	State as to Vaccination.	Type of Disease.	Result.
Feb. 14	М.	39	Quayside labourer.	3 scars, total area, ½ square inch. Infancy.	Mild discrete.	Recovered.
Feb. 18	М.	61	Storeman, Quayside.	1 scar, ½ square inch. Infancy.	Severe confluent.	Died.
Feb. 19	М.	25	Seaman, Brazilian Navy.	1 scar, 1 square inch. Infancy.	Mild discrete.	Recovered.

In consequence of the growing neglect of Vaccination, through the excuses available under the ill-advised exemption clauses of the Acts of 1898 and 1907, there is being created a corresponding increase in the proportion of unprotected persons, the presence of whom in the community is a serious menace to the safety of all, in the event of Smallpox appearing in this city. By the courtesy of the Clerk to the Guardians, the Medical Officer of Health is enabled to append particulars of infant vaccination in Newcastle, during the past six years. (Walker, which belongs to the Tynemouth Rural area for registration purposes, is not included).

				Exemption Certificates			
Year.	Births Registered.	Successful Vaccinations.	Unsuccessful Vaccinations.	Number.	Percentage to Total Births.		
1905	7,958	7,264	27	65	0.8		
1906	7,721	6,733	28	92	1.2		
1907	7,610	6,702	16	94	1.2		
*1908	7,747	6,414	20	449	5.8		
1909	7,180	5,667	30	517	7.2		
1910	7,023	5,532	22	683	9.7		

<sup>\*</sup> Vaccination Act, 1907, came into force.

During the year under report, 10 Smallpox "contacts" from other towns were kept under observation at their homes in the city.

13 Cholera "contacts" from other towns were also kept under observation.

Infectious Disease Inquiry and Disinfection.—1,286 cases of notifiable infectious disease have been inquired into by the Special Inspectors, and the houses or rooms connected therewith disinfected. This does not include 440 cases of Tuberculosis, Measles, &c., in which disinfection of the infected premises was carried out. The bedding and other infected articles were removed to the Disinfecting Station, and, after purification, returned to the owners.

INFECTIOUS CASES NOTIFIED IN PUBLIC INSTITUTIONS, &c.

INSTITUTIONS, &c.	Scarlet Fever.	Enteric Fever.	Diph- theria.		Puerperal Fever.	TOTAL
Royal Victoria Infirmary	. 5		4	4	2	15
Fleming Memorial Hospital, North Road	. 1		17			18
Children's Hospital, City Road			3			3
Royal Victoria Asylum for the Blind	0					3
Workhouse	. 2		4	27	1	34
City Hospital for Infectious Diseases		3	3			6
Throat and Ear Hospital	. 1	3				1
H.M. Prison				1		1
Military Barracks	. 1	2				3
Total	. 13	5	31	32	3	84*

<sup>\*</sup> Does not include any cases belonging to the City which could properly be assigned to their homes

City Hospital for Infectious Diseases.

## CITY HOSPITAL FOR INFECTIOUS DISEASES.\*

908 patients have been treated at the City Hospital for Infectious Diseases at Walker Gate during the year 1910.

The cases were as follows:-

				-			
	Enteritis.	:	:	1	:	:	-
	Cervical Hæmatoma.	-	:	:	:	:	-
	Nephritis.	-	:	:	:	:	-
	Burn Rash.	-	:	:	:	:	1-
	X Ray Rash.	-	:	:	:	:	-
	Erythema.	16	:	:	:	:	16
	Syphilis.	1 :	-	:	:	- :	-
2	Puerperal Septiciemia.	1 :	-	:	:	:	-
After observation proved to be	Tuberculosis.	1 :	-	-	:	:	01
pa	Phthisis. General	:	:	-	:	-	-
rov	Pneumonia.	1 :	60	61	:	:	10
no p	rsu.kuer	1 :	-	:	:	1	-
atic	Stomatitis.	:	61	:	:	:	03
serv	Pharyngitis.	:	-	:	:	-	-
op	Tonsillitis.	01	11	:	:	:	133
fter	Rotheln.	10	:	-		:	9
<	Measles	10	10		:	1	10
	Meningitis.	1	:	61	:	-	00
	Spinal Meningius.					-	-
	Epidemic Cerebro-				:		-
	Influenza.	:	:		:	:	-
	Typhus.	:	:	-	6	:	10
	Enteric Pever.	1	:	47	:	1	47
	Diphtheria.	:	317	:	:	:	317
	Scarlet Pever.	453	12	:	:	:	465
	No. of Cases.	485	355	57	6	01	806
l as		:	:	:	:	ro-)	:
Admitted		ver	::	ver	:	Cereb	TOTAL
Adı		Fe	eria	Fe		lic (	DIA
		Scarlet Fever	Diphtheria	Enteric Fever	Typhus	Epidemic Cerebro- Spinal Meningitis	T

\* For other details, see pages 27 and 29.

ADMISSIONS TO, AND DEATHS AT, THE CITY HOSPITAL FOR INFECTIOUS DISEASES (OTHER THAN SMALLPOX) DURING THE YEAR 1910.

	Total.	1860 11-4 1-1-10-1-11	09
	Dec.	N-::::::::::::::::::::::::::::::::::::	00
	Nov.	[0101 ] ] [ -   ] ] ] ] ] ] ] ] ] ] ] ]	10
	Oct.	::::::::::::::::::::::::::::::::::::	4
	Sept.	- to             -       -	00
THS.	-SuA	[8] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	00
DEATHS	July	:::::::::::::::::::::::::::::::::::	4
	June.	17 111111111111111111111111	-
	May		9
	JingA.	::::::::::::::::::::::::::::::::::::	4
	Mar.		10
	Feb.	04-111111111111111	6
	.net	- :- : : : : : : : : : : : : : : : : :	00
	Total.	3465	806
	Dec.	888 = 1 : 1 : 1 = 1 : 1 : 1 : 1 : 1 : 1 : 1	67
	,voV.	8 28 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	76
	.toO	200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	96
2	Sept.	80 80 11 11 11 11 11 11 11 11 11 11 11 11 11	66
ADMISSIONS.	-SuA	2621 - 1   1   1   1 - 1   1   1 - 2   1 - 1   1   1	8
SHIR	July.	8,4 : : : : : : : : : : : : : : : :	000
A	June.	2000-111011-11111-1111	61
	May.	8688 : :- :01 :- : : : : : : : : : : : : : : : : : :	59
	JingA.	55538	64
	Mar.	1 1 1 1 2 1 1 1 1 1 1 1 2 1 1 1 2 3 3 3	79
	Feb.	1 -1 : : 1 -1 -1 : : : : : 1 +2 8	97
	Jan.	4880 : : : : : : : : : : : : : : : : : :	77
		Scarlet Fever Diphtheria Enteric Fever Typhus Influenza Epidemic Cerebro-Spinal Meningitis Pneumococcal Meningitis Measles. Rotheln Tonsillitis Pharyngitis Stomatitis Stomatitis Burn Body in Larynx Pneumonia Phthisis. Syphilis Erythema X Ray Rash Burn Rash X Ray Rash Surn Rash Cervical Hæmatoma Enteritis Enteritis Scarlet Fever Spinal Meningitis Stomatics Stomatics Stomatics Suphilis Sphilis Sph	
	ES.	opina agiti	
	DISEASES.	o-Sj losis ma	
	DIS	r al M rrcul ptic	T
		Scarlet Fever Diphtheria Enteric Fever Typhus Influenza Epidemic Cerebro-Spinal Pneumococcal Meningitis Measles. Tonsillitis Pharyngitis Stomatitis Pheryngitis Pheryngitis Stomatitis Foreign Body in Larynx Pneumonia. Phthisis. General Tuberculosis Puthisis Syphilis Erythema X Ray Rash Burn Rash Surn Rash Surn Rash Cervical Hæmatoma Cervical Hæmatoma Enteritis Siphilis S	TOTAL
		Scarlet Feve Diphtheria . Enteric Feve Typhus . Influenza . Epidemic Cel Pneumococci Measles Rotheln . Tonsillitis . Pharyngitis . Stomatitis . Foreign Bod Pneumonia . Phthisis . General Tub Puthisis . Kay Rash Burn Rash . Nephritis . Cervical Har	I
		Scarlet F Diphtheri Enteric F Typhus Influenza Influenza Epidemic Pneumoc Measles. Rotheln Tonsilliti Pharyngi Stomatiti Foreign I Phthisis. General 7 Gener	
		E C C C C C C C C C C C C C C C C C C C	

RATE PER CENT. OF CASES REMOVED TO HOSPITAL TO CASES NOTIFIED IN 1890, AND DURING EACH OF THE PAST TEN YEARS.

		1890	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910
Scarlet Fever .		18-4	40.0	41-9	44.3	57-1	50.1	53-2	64.8	73.6	78.6	84.5
Diphtheria .		8.3	28.8	24.1	24.5	35.8	36.8	37.4	51.4	68:1	76.1	80.1
Enteric Fever .		38-9	44:7	50-9	58-7	53.3	52.0	78-6	62.1	82-9	82-3	90.5
All cases of the a together with Cor ed and Typhus	ntinu-	21:3	39-7	42-0	45.1	46.0	47.8	56-6	59-9	72-6	78-0	83:0

From the above table it will be seen how the proportion of infectious cases removed to Hospital continues to increase.

MORTALITY OF CASES TREATED IN HOSPITAL AS COMPARED WITH CASES TREATED AT HOME, DURING 1910.

		HOSPITAL		Номе.			
DISEASE.	Total Cases.	Deaths.	Case Mortality per cent.	Total Cases,	Deaths.	Case Mortality per cent.	
Scarlet Fever	 465	11	2.37	89	1	1.1	
Diphtheria	 317	29	9.15	88	11	12.5	
Enteric Fever	 47	5	10.64	6	4	66.6	

Diphtheria Cases in Hospital.—Of the 317 patients sent to Hospital, 251 were faucial or pharyngeal cases, and of these 22, or 8.8 per cent., died. 43 were laryngeal or tracheal, and of these 5, or 11.6 per cent., died. Tracheotomy was performed on 16 patients, of whom 4, or 25.0 per cent., died. 24 of the cases were non-clinical, being merely "carriers" of the diphtheria bacillus; most of these were admitted from the Fleming Memorial Hospital, and 2 died from diseases other than Diphtheria. It is of interest to note that of 22 cases in which the nasal passages were involved, no less than 11 died.

Of the 29 deaths, 8 were of patients practically moribund on admission, who died within 24 hours; 2 of these were operated upon, but too late to save life. 2 further deaths were from diseases other than Diphtheria (see above).

Tracheotomy was performed also upon 4 cases sent in as Diphtheria, but found to be suffering instead from Laryngitis accompanying Measles (3), of whom 1 died, and Syphilis (1), which recovered.

As hitherto, the patients sent to Hospital came, generally speaking, from much less favourable surroundings than those treated at home, and suffered from a severer type of the disease.

Antitoxin is administered to all cases of Diphtheria admitted to Hospital which have not received the remedy at home. Owing to the free supply of Antitoxin to private medical practitioners, considerably less has been used at the Hospital, and patients receive the treatment earlier than previously.

Cases of Mixed Infection.—42 patients sent into Hospital were found on admission to be suffering from two or more distinct infectious diseases, as follows:—

Sc	arlet Fever and Diphtheria			 3
Sc	arlet Fever and Chickenpox			 5
Sc	arlet Fever and Whooping Coup	gh		 7
Sc	arlet Fever and Measles			 4
Sc	arlet Fever, Measles, and Chick	kenpo	·	 1
Di	phtheria and Scarlet Fever			 5
Di	phtheria and Measles			 3
Di	phtheria and Ringworm			 4
Di	phtheria and Chickenpox			 1
Di	phtheria, Chickenpox, and Scar	let Fe	ver	 2
Di	phtheria and Tuberculosis			 2
Di	phtheria and Chorea			 1
Di	phtheria and Whooping Cough			 3
Me	easles and Whooping Cough			 1

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

To the Newcastle Sanita	ary Au	thority	 	Cases. 904
To private guarantors		***	 	4
Total			 	908

Smallpox and "Contact" Isolation Hospitals.—On the occurrence of Smallpox in February, the Isolation Hospital had to be opened on the shortest possible notice, and a suitable caretaker hastily engaged. Owing to unpreparedness in respect of the latter, the Medical Officer of Health was considerably hampered, at a most critical time, in dealing with the outbreak.

3 cases of Smallpox were accommodated in the Smallpox Hospital, and 25 Smallpox "Contacts" in the Isolation Hospital. The following table shows the admissions during the year in the two institutions:—

DISEASE.	NUMBER.	PERIOD OF ACCOMMODATION.
Smallpox	3	Feb. 14-Mar. 19.
Smallpox ("Contacts")	25	Feb. 14—24.
Chickenpox (for observation)	4	June 23-27.
Typhus "Contacts"	4	June 27-July 11.
Scarlet Fever Convalescents ("over- flow" from Walker Gate)	82	Sept. 23—Dec. 2.
Total	118	

INFECTED ARTICLES DESTROYED AND REPLACED BY THE HEALTH
DEPARTMENT.

			1909.	1910.
Half Straw Mattresses	 	 	 84	52
Flock Beds	 	 	 2	4

INFECTED ARTICLES PURIFIED IN THE DISINFECTING APPARATUS AT THE CITY HOSPITAL FOR INFECTIOUS DISEASES, WALKER GATE, AND THE ISOLATION HOSPITAL, TOWN MOOR, DURING THE YEAR 1910.

ARTICLES	FROM CITY.	ARTICLES—HOSPITAL PROPERT		
1909.	1910.	1909.	1910.	
26,942	20,353	6,750	3,594	

Food Poisoning.—During the month of December there occurred two outbreaks of meat poisoning, viz., one from tinned Australian mutton, and one from tinned salmon.

In the first outbreak, which centred round a small general shop in the St. Peter's District, 19 persons, of whom one died, were affected. Only one tin, a 6 lb. one, appeared to have been contaminated; from a scrap of its unconsumed contents an organism was isolated which corresponded with one obtained from the body of the fatal case, and which belonged to the group of bacteria commonly associated with cases of food poisoning.

In the second outbreak, a family of 5 persons, living in Walker, was affected after the consumption of a 1 lb. tin of salmon. All recovered, though seriously ill. No typical organism was found in this instance.

The following report and instructions regarding precautionary measures was prepared.

### POISONING FROM TINNED MEAT.

In accordance with the instruction of the Sanitary Committee, the Medical Officer of Health reports as follows:—

The larger proportion of preserved cooked meat is imported from abroad, the principal sources of supply being the United States, Canada, Australia, and New Zealand, in all of which countries the meat is packed in sealed tins. A smaller amount is prepared in England, much of the home supply being put up in glass or earthenware vessels. Certain less reputable English firms, however, are known to purchase foreign canned meat, which they repack in the glass or earthenware receptacles.

Danger to the consumer may arise under three general heads:-

(1) From the absorption of lead from the coating of a badly "tinned" can; from unsuitable "tin," such as "terne-plate," which contains a large proportion of lead, and is readily acted upon by any acidity of the contents of the vessel; or from absorption of lead from solder which has been badly applied and comes into direct contact with the food.

Metallic poisoning from such sources, however, is of comparatively rare occurrence, and is most frequent in the case of acid-containing substances, such as tinned fruits, lobster, and sardines.

(2) From the presence of preservatives in the meat. Of these, by far the commonest are the compounds of Boron, which, while exerting a deleterious effect upon the process of digestion, merely hinder the multiplication of harmful germs without destroying them, at the same time masking all signs of decomposition that may actually be present. The use of these is quite unnecessary if the meat be sound and fresh when canned, and prepared under cleanly conditions.

(3) From the presence of germs which cause the formation of highly poisonous products of decomposition known as ptomaines. These are exceedingly virulent and rapid in action, and constitute by far the most serious danger in connection with tinned foods. The presence of these germs may be due originally to the use of unsound meat, to uncleanly conditions in its preparation, to their entry into a defective tin, or to the contamination of the meat in a tin after it has been opened and its contents exposed.

#### PRECAUTIONARY MEASURES.

The following should be carefully avoided:-

Meat put up in tins of inferior make and finish. It is well known that only a poor class of meat is put into poor tins.

Tins that bulge and emit a hollow sound when tapped, or which splash when shaken, or tins which show signs of having been knocked about.

Tins, the contents of which show any discolouration, sloppiness (especially in the jelly part), or liquidity, or which give forth any unusual smell.

Tins, the insides of which show any roughness or erosion from the action on them of their contents.

A tin should never be opened until immediately before it is to be used. Its contents should be emptied out on to a dish, and not replaced in the tin, so that their condition may be thoroughly visible.

So far as possible the meat should not be kept for any length of time. If it cannot be used at once, it should be put in a cool place and carefully covered to protect it from flies and dust.

On no account should tinned meat be warmed up before use.

HENRY E. ARMSTRONG, D.Hy.,

Medical Officer of Health.

# PREVENTION OF INFANTILE MORTALITY.

The Report of the Superintendent of Midwives is as follows: -

To the Medical Officer of Health.

SIR,

Herewith I beg to submit my Report for the year 1910.

## Midwives Act, 1902.

During the year 1910 twenty-nine midwives notified the Local Supervising Authority of their intention to practise. Of these seven work entirely as monthly nurses, twenty-one act as midwives and occasionally as monthly nurses, and one is eighty-six years old and does not practise.

Prosecution under the Midwives Act, 1902.—On 1st April, 1910, Section 1 (2) of the Midwives Act, 1902, came into force, and circular letters were sent to 70 uncertified women practising midwifery, whose names and addresses had been obtained, warning them against attending confinements. Three women ignored the prohibition, and were prosecuted and fined. One of the three had been a registered midwife, whose name was struck off the Midwives' Roll in 1909 for gross negligence when in attendance on a case.

Midwives' Inspection.—73 visits were paid to the midwives' homes to inspect the sanitary state of their residence, to see that their bags of appliances were kept in proper order, and that their registers were filled up in accordance with the rules of the Central Midwives Board. The standard of cleanliness and efficiency is well maintained; and as the result of the efforts of the Health Department the midwives take an active and valuable part in the work of preserving infant life, giving the mothers simple and sound advice on the care of their babies, and even re-visiting some cases during the first three months after birth.

1,512 living births and 38 still-births were attended by certified midwives.

Puerperal Septicæmia.—One case occurred during the year in the practice of a midwife.

Lectures to Midwives.—A course of 20 lectures was given and was well attended. Additional instruction is given to bonâ fide midwives, as occasion arises.

Unregistered Women.—13 visits were paid to these. The Central Midwives Board decided, by a new rule, B (2), to admit a limited number of uncertified persons to the Midwives' Roll without examination, applications to be received not later than September, 1910. Two applications were received from Newcastle, but the applicants, being unsuitable, were refused enrolment.

Notices to Local Supervising Authority from midwives who had sent for Medical Help—137. The details are as under:—

Prematurity (5 cases of twins) 3	33 Rise of temperature 6
Immaturity	
Uterine Inertia 1	14 Tenderness of breast 1
Adherent Placenta (1 still birth)	6 Congenital Deformity 3
Abnormal Presentation (3 still	Infantile Convulsions 10
births) 1	12 Ophthalmia Neonatorum 5
Ruptured Perinæum	1 Icterus Neonatorum 2
Contracted Pelvis	1 Pemphigus 1
Abortion	1 Bronchitis (infant) 1
Ante-partum Hæmorrhage	1 Overlaying 1
Post-partum Hæmorrhage	2 Still-births 20
Mothers' illness	
Syncope (mother)	2 137

Every case in which the medical practitioner's fee was claimed from the Board of Guardians has been visited and investigated.

Expectant Mothers.—199 have been visited and advised as to diet, occupation, and care of their general health. Once a week a class is held in which mothers who care to attend are taught to prepare the necessaries for the lying-in period, both for mother and child, and to provide infants' clothing for the first three months at least. The attendance averaged about six. A great number of expectant and nursing mothers

obtain much benefit at the "Mothers and Babies Welcome," where they are trained in the care and feeding of infants, in the elementary rules of home hygiene, and most important of all, are taught how to prepare and cook good plain wholesome food. Dinners are also provided for the expectant and nursing mothers.

Relief Recommendations for the lying-in period were given to seven mothers who were in need of nourishment.

Numerous cases are sent to the Charity Organization Society, which saves many a poor mother from starvation, and so helps towards the natural feeding of her infant.

Leaflets. (Advice to expectant mothers).—6,000 were distributed during the year.

Insanitary Dwellings.—23 cases of insanitary conditions were reported to the Medical Officer of Health.

Health talks to Mothers' Meetings were given in 22 instances on request of the Secretaries. 15 lectures were delivered at Girls' Clubs.

Tuberculosis Exhibition—Children's Section.—Not the least popular part of this most successful exhibition was a large room devoted to the hygiene of childhood.

Clothing, nursery and toilet appliances, feeding and cooking materials and utensils, and indeed everything necessary for the proper rearing of infants was shown. Object lessons in picture, chart, and model, and cheap adaptations and makeshifts for the more expensive articles of furniture were exhibited. The room was constantly crowded by keenly interested persons of all ages and both sexes.

Demonstrations were given continuously throughout the day and evening during the fortnight the exhibition was open, and there is no doubt whatever that this section proved a most valuable means of disseminating information. NOTIFICATION OF BIRTHS ACT, 1907.

During the year 1910, notifications of 5,094 births have been received out of a total of 7,543 births registered; thus only 67.5 per cent. of the births were notified, 32.5 per cent. not being returned. Almost all of these latter occurred in the practice of medical men, and in one particular area of the City. There is reason to believe that all, or nearly all, of the births attended by midwives, and of those attended by unregistered women, are reported to the Health Department.

The following table shows from whom the notifications have been received:—

Notifie	d by			Living Births.	Still Births.
Medical Prac	titioners.	 		2,230	 103
Maternity Ho	spital .	 		1,175	 59
Union Infirma	ary .	 		67	 5
Midwives		 		1,512	 38
Unregistered	Women .	 	***	46	 
Parents		 		64	 -
Т	otal .	 		5,094	 205

Prosecutions under the Notification of Births Act.—Three parents were proceeded against for failure to fulfil the conditions of the Act. Exemplary treatment was not asked for, and the magistrates warned the delinquents and imposed light nominal fines.

Of the births notified, 2,516 cases in the poorer parts of the City were visited as soon as possible after birth, and 1,463 were entered in the books of the special Health Visitors for regular revisitation until the infants attain the age of 12 months, only those cases being so supervised whose surroundings and circumstances were exceptionally unfavourable, and whose chances of survival were least. As these children become a year old in 1911, the results of the work done on their behalf will be described in the Report for that year. In all 5,529 visits were paid by the Health Visitors, in addition to the 2,516 primary visits by the Superintendent of Midwives.

The following particulars regarding the babies born in 1909, who reached their second birthday during 1910, are of interest. 1,463 names were entered on the lists of the Health Visitors. Of these, 146 were lost sight of and could not be traced, many of the parents having left the city on account of trade depression.

Of the remaining 1,317, 136 died—i.e., 103 deaths per 1,000 births as compared with a mortality rate for the City generally of 123 deaths per 1,000 births, which is the second lowest on record, last year (1909), having the lowest rate with 122 deaths per 1,000 births. By means of the Notification of Births Act, 1907, the Health Department becomes apprised of practically all births occurring among the poorest and most ignorant classes of the community.

All cases under unregistered women have been visited by the Superintendent of Midwives and Health Visitors. Seeing that the registered Midwives are now well trained and reliable, attention to their cases is not so necessary as formerly, and the visits of the officers are almost entirely devoted to those infants whose circumstances and surroundings render their chances of survival extremely precarious, and whose mothers have no one at all to whom to apply for advice.

Influence of Housing Accommodation.—Of the infants visited by the officers of the Health Department who lived in single-roomed houses, the infantile mortality rate was 116 per 1,000 births; of those in two-roomed houses, 94 per 1,000 births; and of those in three-roomed houses, 78 per 1,000 births; only 7 babies, living in houses of more than three rooms, were visited, and of these, 2 died.

Parental Employment.—Only a small proportion of mothers are at work; the figures available do not point to the maternal employment exercising any particular influence upon the health of the infant.

Health of Mother.—Of 92 babies whose mothers were in bad health, 9 died.

Attendance at Birth.—Of the midwives' cases, the mortality figure is 89 per 1,000 births. Of the babies whose advent was assisted by untrained handywomen, the mortality was at the rate of 117 per 1,000 births.

Feeding.—82 per cent. of the babies under observation were entirely breast fed (as compared with 70 per cent. in 1909), while 9 per cent. received artificial (in addition to breast) feeding before the age of nine months, and 9 per cent. were entirely artificially fed. The infantile mortality figures are as follows:—

Entirely breast fed	(	99 per	1,000.
Mixed feeding (breast and artificial	) :	59	22
Entirely artificially fed	. 17	77	,,

Illegitimacy.—The infantile mortality rate for legitimate children is 100 per 1,000, whereas that of the illegitimate babies is 173 per 1,000 births.

Sex.—The mortality rate among male infants was 94, and that among females 114, per 1,000 births.

I am Sir,

Your obedient Servant,

ELIA RENAUD,

Health Department, Superintendent of Midwives.

Town Hall, 13th April, 1911.

#### BACTERIOLOGICAL INVESTIGATIONS.

The Report of Professor H. J. Hutchens on the work of the Bacteriological Department during the year is as follows:—

Summary of the Bacteriological work done for the Health Department of the Newcastle Corporation during the year 1910.

2,114 specimens were submitted for examination. The nature of the investigations, and the results obtained, were as follows:—

	DIPHTHERIA.  Total.   Positive,   Negative.			PHTHISIS.			ENTERIC FEVER.		
	Total.		Nega- tive.	Total.	Posi- tive.	Nega- tive.	Total.	Posi- tive.	Nega-
No. of Examina- tions	920	327	593	603	157	446	89	24	65

#### Water:-

	Total.	CLASS I. Satis- factory.	CLASS II.  Doubtful.	CLASS III. Unsatis- factory.	CLASS IV. Bad.
No. of Examina- tions	192	44	75	51	22

#### Milk:-

	Organism	Organisms, other than Tubercle Bacilli.  Total. Satisfactory, factory.			Tubercle Bacilli.			
	Total.	Satis- factory.	Unsatis- factory.	Total.	Tub. Bac. found.	Tub. Bac. not found.		
No. of Examina- tions	194	137	57	111	. 6	105		

Other examinations (5) include the following, viz.:-

One case of suspected anthrax, which proved negative.

Two cases of suspected meningococcal meningitis, in both of which the meningococcus was found.

Two cases of food poisoning, one due to tinned salmon, in which a pneumococcus was found, and one due to tinned mutton, from which paratyphoid bacillus was isolated.

H. J. HUTCHENS,

Bacteriologist.

University of Durham College of Medicine, Newcastle-upon-Tyne, 21st April, 1911.

#### REPORT OF THE INSPECTOR OF NUISANCES.

General Work of the Health Department

The Report of Mr. W. Hudspeth, Inspector of Nuisances, New House Drainage, Common Lodging-houses, Workshops, and Food Adulteration is given below:—

TO THE MEDICAL OFFICER OF HEALTH.

SIR,

I beg to submit to you my third report of the work done in my section of the Health Department during the year ended December 31st, 1910. See Tables 1 to 6a, pages 46 to 60.

As previously pointed out, it is difficult to show, in tabular form, the amount and nature of the work done by the inspectorial staff, as, apart from the actual number of nuisances, &c., dealt with, the amount of work entailed in accomplishing their abatement is often very considerable, e.g., advising as to methods of remedy, supervising work in progress, testing completed work, &c. The Tables given, however, will show, as far as it is possible to do so, the amount of work which has been carried on.

The systematic inspection of tenemented property continues to result in much good, and conduces largely to the more cleanly habits of the occupiers. With a certain class of tenant, however, there is still room for improvement. Although the application of Acts and Bye-laws results in better sanitary conditions, in many instances the improvement is only temporary, and it is evident that legal powers alone are not sufficient to inculcate proper ideas as to personal cleanliness and the rudiments of sanitation.

Nuisance Abatement.—The total number of notices served during the year was 6,634 (of which 6,499 were informal and 135 statutory). Details as to the nature of the nuisances dealt with, of the work carried out in their abatement, and of legal proceedings taken will be found in the respective tables.

A large number of insanitary conveniences, viz., 60 "cell" privies (in Benwell and Walker), 40 midden-privies, and 117 pailclosets, have been removed and water-closets substituted, and many more are being dealt with.

The first ashtubs continue to be supplied by the Corporation, free of charge, on ashpits, pailclosets, &c., being abolished. 323 such tubs were given during the year.

Magisterial Proceedings (see Tables III. and IV.)—It will again be seen that only in very few instances was it necessary to resort to legal proceedings in order to obtain abatement of nuisances, &c. In the great majority of cases, where notices served were not at once complied with, reminding letters and personal calls upon the persons responsible resulted in the matters referred to being remedied.

Tenement Bye-laws.—The number of tenemented houses in the City is 3,531, containing 10,090 holdings, as follows:—

1 Room.	2 Rooms.	3 Rooms.	4 Rooms.	5 Rooms.	Total.
3,458	5,456	1,066	108	2	10,090

The Bye-laws with respect to these houses have again been fairly well complied with. The Bye-law requiring the half-yearly limewashing of tenement yards, passages, &c., continues to entail a great amount of work by the Health Department officers. In the year under report, 9,113 visits were made in connection with the enforcement of this Bye-law alone. As has been the practice previously, circular letters have been issued to all landlords of tenemented property, calling their attention to the requirements of this Bye-law. This, together with personal interviews, &c., resulted, in most cases, in the necessary limewashing, &c., being carried out without recourse to magisterial proceedings, which were only rendered necessary in thirty cases.

Drains of New Buildings.—Details of this work are shown in the following Table:—

No. of Houses	No of Main Drains			o. of Branch		Super-	Visits to
at which	Tested.			rains Tested. Supple-		visions of	learn if
Drains have	With	With	With	With	Tests.	Work in	Work in
been laid.	Water.	Smoke.	Water	Smoke		Progress.	Progress
429	419	10	2,003	33	1,529	4,248	2,121

Smoke Inspections.—The following are particulars as to smoke observations taken:—

No. of chimneys watched.	No. of observations of chimneys made.	No. of chimneys from which black smoke issued in such quantity as to be a nuisance for periods of over 5 minutes in the	No. of times when smoke issued so as to be a nuisance.	No. of not for the a of smoke	batement
		aggregate in one hour.		Informal.	Statutory
99	179	22	29	17	1

Offensive Trades.—51 of these trades are carried on at 49 different premises, which have been systematically visited during the year. The trades referred to are: Tripe Boilers (8), Gut Scraper (1), Soap Boilers (2), Bone Boilers (2), Tanners (2), Fish Curers (5), Manure Manufacturers (2), Bone Store (1), Tallow Melter (1), Hide and Skin Dealers (5), Marine Store Dealers (22).

Common Lodging Houses..—These houses have been well conducted. Four have been closed, three voluntarily, and one in consequence of action taken with a view to condemnation of the premises as unfit for habitation.

Two additional houses have been added to the Register. The number of common lodging houses in the City at the end of the year was 60. The total number of lodgers for which these houses were registered was, at the close of the year, 2,080, as against 2,154 at the end of 1909. The average number of lodgers per night was 1,410, the highest and lowest numbers on any one night being 1,487 and 1,317 respectively.

For details see Tables VI. and VIA.

The Inspectors who do this work also obtain samples of water and milk for bacteriological examination, and collected 192 of the former, and 308 of the latter during the year. These officers also take smoke observations, and assist the District Inspectors when required.

Bakehouses.—The workshop bakehouses (100) have been systematically inspected, and found to be kept in good order.

Adulteration Acts.—The number of samples of food and drugs purchased for analysis during the year is 625, against 1,127 in the previous year. All of these were submitted for analysis to the Public Analyst. For details see Table IV.

The decrease in the number of samples taken for analysis is due to the fact that the question of the Public Analyst's salary was for some time under consideration, during which period the taking of samples was suspended. As this matter has now been settled, it is proposed to obtain considerably more samples in future.

Milk.—The number of milk samples purchased is 386. 36 of these were certified to be below the standard fixed by the "Sale of Milk Regulations, 1901," the remainder being genuine.

Of the total number of samples taken (625) 161 were collected "informally," chiefly through the agency of hired persons, viz.:—

Margarine	 31	Ground Rice	6	Glycerine	4
Butter		Semolina	5	Olive Oil	5
Lard	 17	Corn Flour	7	Gregory's Powder	3
Flour	 8	White Pepper	5	Camphorated Oil	4
New Milk		Black Pepper	1	Tartaric Acid	4
Cream		Condensed Milk	4	Tincture of Rhubarb	2
Ground Almond		Mustard	2	Syrup of Rhubarb	1
Arrowroot		Baking Powder	3	Ham, Chicken, and	
Ground Ginger		Spirits of Nitre	8	Tongue Paste	1
Vinegar		Paregoric		Salmon and Shrimp	
Tapioca		Cream of Tartar		Paste	1
Sago		Ground Gentian Root	2		
0					

The percentage of samples not genuine to the total number taken is 9.0 (compared with 10.9 for the previous year), and the percentage of milk samples below standard to the number of milk samples taken is 9.3, as against 10.6 in 1909. The total number of samples taken is at the rate of 2.2 per 1,000 of the population (estimated) of the City for the year 1910.

Preservatives in Food.—Of the total number of samples taken for analysis (625), only 24 (or 3.8 per cent.) were certified to contain preservatives, as follows:—

- 6 samples of Butter contained Boric Acid in amounts varying from 0.06 per cent. to 0.20 per cent.
- 3 samples of Margarine contained Boric Acid, in amounts varying from 0.07 per cent. to 0.20 per cent.
- 12 samples of Margarine contained "a small percentage of Boric Acid."
- 3 Do. Cream contained Boric Acid to the extent of 0.37 per cent., 0.38 per cent., and 0.42 per cent. respectively.

In the case of the cream, the vendors were cautioned, but no action was taken in the other instances, the quantities of preservatives being within the limit allowed.

Margarine Act.—32 samples of Margarine (included in the foregoing total) have been purchased and analysed. All were genuine, excepting that 15 contained Boric Acid, the amounts of which were, however, within the limit allowed. See Table IV.

Margarine Warehouses.—124 visits have been made to the margarine warehouses. No contravention of the law as to the marking of packages containing margarine was found.

Houses Demolished.—26 tenemented houses (98 holdings), and 54 self-contained houses have been pulled down or otherwise ceased to be used as dwellings. 59 of these were demolished in connection with Messrs. Armstrong, Whitworth & Co.'s new shipyard at Walker, and 15 in the neighbourhood of Forth Banks were closed by the owner with a view to having the property re-modelled. These are in addition to the number closed as unfit for habitation, and reported upon by the Medical Officer of Health.

Factory and Workshop Acts.—There are 1,127 Workshops on the Register, besides a large number of factories, domestic workshops, workplaces, laundries, bakehouses, &c. Particulars as to inspections made, defects found, outworkers, &c., are given in Table V., pages 57 to 59.

Factory and Workshop Act, 1901.—During the year, 100 lists of outworkers have been received, 29 employers having sent in lists twice, and 42 employers once.

During the year 36 notices as to insanitary conditions in factories and workshops were received from H.M. Inspectors of Factories. 24 of these related to factories and 12 to workshops. The matters referred to were investigated and dealt with by service of notice, the results being reported to the Inspectors of Factories as required by the Act.

Sanitary Inspection of Council Schools.—236 inspections of these schools have been made during the year. In three cases, insanitary conditions were found. One of these, a minor matter, was immediately remedied, and the remainder (defective drain and yard pavement) were reported to the Secretary to the Education Committee.

I am, Sir,

Your obedient Servant,

W. HUDSPETH,

Inspector of Nuisances, Common Lodging Houses, &c.

Health Department, Town Hall, 1st May, 1911.

## TABLE I.

SUMMARY OF NUISANCES FOR THE ABATEMENT OF WHICH NOTICES WERE SERVED DURING 1910.

					1
Foul priving and achaits (to realize with	, motor	alonota)	(Pi	rivies	10
Foul privies and ashpits (to replace with			(24)	shpits	6
Defective "cell" privies in Benwell a	and Wal	ker (to	replace	with	10
water-closets) Foul ashpits not connected with priv	ries (to	remove	and n	rovide	18
tubs)	ries (to	remove	and p	rovide	5
Insufficient water-closet or privy accord	nmodatio	on (add	itional	water-	
closets ordered)					1
Defective or insufficient tubs for dry l	nouse re	fuse (to	provid	e new	1
or additional tubs)					67
	onovida :	···			10
Water-closets without water supply (to Choked water-closets (to cleanse—most			ante)	***	23
Dirty water-closets (to cleanse—all serv			iants	***	28
Defective pail-closets (to repair, provide					63
Foul pail-closets (to replace with water-					26
Dirty privies (to cleanse-all served on t	tenants)				6
Defective drains (to repair, or construct	new dra	uins)			38
	***				1,10
Defective or choked sinks, waste pipes,			hafts, e		10
repair or cleanse)					18
Sink wastepipes not trapped, &c Defective pavement in yards and passag	see Ito re	nair)		•••	16
Dirty or dilapidated rooms (to be cleans					22
					3
Overcrowding (to abate)					5
Dirty yards and passages (to cleanse)				***	41
Animals, pigeons, and fowls improperly	kept (to	remove	)		8
		***			17
Accumulations of manure (to periodicall			***		2
Want of or defective manure pits (to pro Broken roofs and defective or choked spe			or clear	1001	26
			or cicai		22
					1
Want of proper ventilation to tenement			window		
being broken (to provide proper sash	cords)				2
Defective "waste" waterclosets (to rer	nove, an	d provi	de w.c'	s with	
flushing cisterns, &c.)				***	1
Pig styes defective				***	
Defects in   Convenience choked Defective drain			***	***	1 3
Schools Defective yard pavement					
Slop water thrown into privy pails or as				***	1
Filth thrown on streets					
Want of or defective sanitary convenien-	ces in p	ublic-ho	ouses (to	pro-	
vide or repair)					
StablesWant of proper pavement, dra		c. (to p	rovide)	***	
ce Creameries.—In dirty condition, &c.			***		
Filth kept in rooms					
Want of drainage Unclassified minor nuisances (to abate)		***			7
one assured minor nuisances (to abate)				***	
	Total				6,72
	4 171 411	***	444	***	100 8 4

#### TABLE II.

DETAILS RELATING TO CERTAIN WORKS CARRIED OUT IN THE ABATEMENT OF NUISANCES AND TO INSPECTIONS MADE DURING 1910.

				7	
Length in yards of old drains re-	moved				3,714
" " new " co	nstructed	1			4,702
New trapped gullies provided to	drains				711
Combined privies and ashpits re	emoved	privies			*40
		ashpits			*36
Cell-privies removed (in Benwell	l and Wa	lker Dist	ricts)		62
				***	†276
Pail-closets removed			***		117
Defective water-closets remove substituted			of be	tter desi	69
					38
Dry ash-tubs substituted for dry and provided in cases where	pail-clos	sets. &c	have be	en replac	ed, ed
Land and the state of the state					‡323
No. of drains tested					1,190
No. of tests of above drains mad	le by smo	ke and v	vater		1,595
No. of inspections from complain	its made :	at office (	verbally	or by lette	er) 940
No. of tenement inspections mad					28,850
No. of contraventions of Teneme		aws for	which n	otices ha	ve
been served to obtain reme	-				§2,315
Inspections of houses made from					
nuisances discovered in the					
of minor nuisances, such as					
abatement of which was ac	complish	ed at th	e time o	of visit, a	nd
without legal notice			***		11,217
Inspections to learn if works orc		re in prog	gress		9,293
Supervisions of works in progres					3,945
Common yards and courts in the					
Friday afternoons and Sa	turday	morning	s to obt	ain week	dy
cleansing of same		***	***	***	32,128
Inspections after infectious disea				***	1,002
Inspections of milk shops and ic		ries		***	2,108
,, bakehouses	***	***		***	482
" offensive trades					674
" wholesale margar				***	124
" as to limewashing of schools	of tenen	nents	***	***	9,113
					236

<sup>\*</sup> Some ashpits have more than one privy attached. . .

<sup>† 16</sup> of these were provided on premises where the accommodation was previously insufficient.

Free tubs given by Corporation in each case.

<sup>§</sup> In addition to this number, the District Inspectors have daily had premises cleansed on verbal order.

## TABLE III.

Summary of Legal Proceedings ordered to be taken before the Magistrates for the Abatement of Nuisances, &c., during the year 1910.

NATURE OF COMPLAINT.	No. of Cases.	How Disposed of.
Defective Drains.	4	Work done without the summonses being applied for.
Choked Drains.	2	Ditto.
Defective Rainspouts, caus- ing dampness.	3	Ditto.
Defective roofs, causing dampness.	7	Ditto.
Accumulation of Manure and other Refuse.	2	Refuse removed without the summonses being applied for.
Public Health Act, 1875, Sec. 36:—		
Houses without sufficient water closets, &c. (foul pail-closets, to replace by proper water closets).	7	Work done without the summonses being applied for.
Insufficient Privies (to repair).	1	Work done without the summons being applied for.
Insufficient Water Closets (to repair).	4	Work done without the summonses being applied for.
Defective or insufficient number of Ashtubs.	4	Tubs provided without the summonses being applied for.
Newcastle-upon-Tyne Im- provement Act, 1899, Sec. 42:—		
Ice-cream manufactured under conditions likely to expose the commodity to contamination.	-1	Fined 20/- and costs.
Carried forward	35	Amount of Penalties: -£1 0s. 0d.

# TABLE III.—Continued.

Summary of Legal Proceedings ordered to be taken before the Magistrates for the Abatement of Nuisances, &c., during the year 1910.

NATURE OF COMPLAINT.	No. of Cases.	How Disposed of.
Brought forward	35	Amount of Penalties: -£1 0s. 0d.
Newcastle-upon-Tyne Im- provement Act, 1899, Sec. 46:—		
Want of Water Supply.	2	Water supplied without the summonses being applied for.
Tenement Bye-laws:-		
Contravention of Bye-law 12 (water-closet accom- modation).	3	In two cases additional conveniences were provided, and in the other the number of tenants was reduced so as to bring the premises into compliance with the Bye-law. Summonses not issued.
Contravention of Bye-law 16 (water-closet struc- ture and apparatus).	9	In eight cases the work was done without the summonses being applied for, and in the other a summons was issued but afterwards withdrawn on the work being done and costs paid by defendant.
Contravention of Bye-law 17 (maintenance in good order of privy structures and receptacles for filth).	4	Work done without the summonses being applied for.
Contravention of Bye-law 28 (keeping of fowls.)	1	Fowls ceased to be kept. Summons not issued.
Contravention of Bye-law 31 (limewashing of yards, passages, staircases,&c.)	30	Summonses issued but afterwards with- drawn on the work being done and costs paid by defendants.
Contravention of Bye-law 33 (pavement of yards).	3	Work done without the summonses being applied for.
Contravention of Bye-law 34 (want of water supply for domestic purposes).	15	Water supplied without the summonses being applied for.
Total	102	Amount of Penalties: -£1 0s. 0d.

## TABLE IV.

## FOOD AND DRUGS ADULTERATION ACTS.

## Samples taken for Analysis during the Year 1910.

Articles taken for Analysis.	Total No. of samples taken.	Result of Analysis.	Rota- tionary No. of sample.	Proceedings taken and result.
New Milk	386	350 genuine. 1 deficient in milk-fat 3·3%	13	Subsequent sample genuine. Vendor cautioned.
		1 deficient in milk-fat 16.6%	41	Subsequent sample genu- ine. Vendor's explana- tion accepted. No pro- ceedings taken.
		1 deficient in milk-fat 3.3%	42	Subsequent sample genuine. Vendor cautioned.
		1 deficient in milk-fat 1.6%	47	From one vendor. Cas dismissed re No. 47; ver
		1 deficient in milk-fat 13.3%	59	dor fined 10/- and cost re No. 59.
		1 deficient in milk-fat 3:3%	69	Taken experimentally, is connection with proceedings pending.
		1 deficient in non-fatty solids 2.9%	142	Subsequent sample generation inc. Vendor cautioned
			)	From one vendor. Fine 20/- and costs in each
		1 deficient in milk-fat 10%	155	distress warrant issue
		1 deficient in milk-fat 18:3%	160	by the police. Defendan having "no goods," wa committed to prison fo one month.
		1 deficient in non-fatty solids 4%	240	Vendor cautioned.
		1 deficient in milk-fat 6.6%	273	Subsequent sample generation. Vendor offered explanation, which was accepted by Sanitar Committee.
		1 deficient in milk-fat 3·3%	285	Subsequent sample genuine. Vendor cautioned
		1 deficient in milk-fat 5%	299	Case dismissed on paymer of costs.
		1 deficient in milk-fat 20%	303	Case dismissed on payment of costs.
Carried forward	386	Amount of penalties carried forward		£2 10 0

# FOOD AND DRUGS ADULTERATION ACTS.

SAMPLES TAKEN FOR ANALYSIS DURING THE YEAR 1910.

Articles taken for Analysis.	Total No. of samples taken.	Result of Analysis.	Rota- tionary No. of sample.	Proceedings taken and result.
Brought forward	386	Amount of penalties brought forward		£2 10 0
New Milk (contd.)		1 deficient in milk-fat $5{\cdot}0\%$	310	Vendor cautioned.
		1 deficient in milk-fat 6.6%	334	From one vendor. Fined 10/- and costs re No. 334,
		1 deficient in milk-fat 38·3%	344	and 20/- and costs re No. 344.
		1 deficient in milk-fat $3 \!\cdot\! 3\%$	340	Vendor cautioned.
		1 deficient in milk-fat 6.6%	342	Subsequent sample genu- ine. Vendor cautioned.
		1 deficient in milk-fat 13:3%	351	Subsequent sample genu- ine. Vendor cautioned.
		1 deficient in milk-fat 6.6%	356	Subsequent sample genu- ine. Vendor cautioned.
		1 deficient in milk-fat 6.6% 1 deficient in milk-fat 1.7%	360 361	From one vendor, who was cautioned.
		1 deficient in milk-fat 6.6%	383	Subsequent sample genu- ine. Vendor cautioned.
		1 deficient in milk-fat 3 3%	393	Subsequent sample genu- ine. Vendor cautioned.
		1 deficient in milk-fat 1.6%	506	Subsequent sample genu- ine. Vendor cautioned.
		1 deficient in non-fatty solids 16·7 %	513	
		1 deficient in non-fatty solids 11.7%	518	From one vendor. Fined
		1 deficient in non-fatty solids 11.7%	519	£10 and costs in each case.
		1 deficient in non-fatty solids 11.5%	520	
		1 deficient in non-fatty solids 5.6%	547	Vendor summoned. Case dismissed on payment of costs by defendant.
Carried forward	386	Amount of penalties carried forward		£44 0 0

#### FOOD AND DRUGS ADULTERATION ACTS.

SAMPLES TAKEN FOR ANALYSIS DURING THE YEAR 1910.

Articles taken for Analysis.	Total No. of samples taken.	Result of Analysis.	Rota- tionary No. of sample.	Proceedings taken and result.
Brought forward	386	Amount of penalties brought forward		£44 0 0
New Milk (contd.)		1 deficient in milk-fat $10\cdot0\%$	550	From one vendor. Sum- monses issued, but after- wards withdrawn on
		1 deficient in milk-fat 16.6%	555	death of defendant.
		1 deficient in milk-fat 6.6%	561	From one vendor. Fined 20/- and costs in each
		1 deficient in milk-fat 6.6%	567	case.
Blackcurrant	12	1 deficient in milk-fat 6.6% 10 genuine.	565	Subsequent sample genu- ine. Vendor cautioned.
Jam		I not entirely blackcurrant jam, but contained a considerable proportion of juice or pulp of other fruits, partly gooseberry. The sample also contained a minute proportion of artificial colouringmatter.	82	Vendor summoned, and fined 5/- and costs.
		Ditto.	83	Case dismissed on payment of costs, defendant stating that the jam he sold was purchased from defen- dant in the previous case (re sample No. 82).
Lard	18	17 genuine. 1 contained at least 70% of cottonseed oil, and 15% of beef stearin. (Label- led "Lardine.")	115	Vendor cautioned.
Coffee	2	1 contained 100% of chicory	169	Vendor submitted letter to Sanitary Committee, ex- plaining that the article had been supplied in error during his absence. Ven- dor cautioned.
		1 contained 38% of chicory	265	Vendor cautioned.
Carried forward	418	Amount of penalties carried forward		£46 5 0

## FOOD AND DRUGS ADULTERATION ACTS.

SAMPLES TAKEN FOR ANALYSIS DURING THE YEAR 1910.

Articles taken for Analysis.	Total No. of samples taken.	Result of Analysis.	Rota- tionary No. of sample.	Proceedings taken and result.			
Brought forward	418	Amount of penalties brought forward		£46 5 0			
Cream	3	1 contained boric acid 0.37%. (Informal sample.)	444	Formal sample obtained. (See No. 457.)			
		1 contained boric acid 0.38%	457	Vendor cautioned.			
		1 contained boric acid 0.42%	460	Vendor cautioned.			
Whisky	6	4 genuine.					
		1 contained 7.1% excess of water, and was 30.4 de- grees under proof.	477	Vendor fined 40/- and costs.			
		1 contained 1.7% excess of water, and was 26.3 de- grees under proof.	478	Vendor cautioned.			
Mustard	2	1 genuine.					
		1 contained 10.0% of wheat starch. (Labelled "Mus- tard Compound.) (In- formal sample.)	543	No action taken having regard to the labelling of the sample.			
Butter	40	38 genuine.					
		1 contained 100% of Margarine, and the Margarine 0.20% of boric acid.	581	No proceedings taken, there being a doubt as to the exact article asked for by the purchaser (a hired boy), the sample being delivered in a paper marked "Margarine," and "Margarine" price only charged.			
		1 contained 100% of Margarine, and the Margarine 0:07% of boric acid. (See also page 56.)	622	Vendor summoned. Case dismissed, defendant stating that immediately prior to the purchase of the sample she had transferred the business to her daughter.			
Carried forward	469	Amount of penalties carried forward		£48 5 0			

#### FOOD AND DRUGS ADULTERATION ACTS.

Samples taken for Analysis during the Year 1910.

Articles taken for Analysis.	Total No. of samples taken.	Result of Analysis.	Rota- tionary No. of sample.	Proceedings taken and result.
Brought forward	469	Amount of penalties brought forward		£48 5 0
Sago	4	1 consisted entirely of tapioca. (Informal sample).	583	Formal sample taken. (See No. 619.)
		Ditto.	594	Formal sample taken. (See No. 620.)
		1 consisted entirely of	619	No proceedings taken.
		Ditto.	620	Ditto.
Vinegar	5	2 genuine.  1 deficient in acetic acid 21.6%. (Informal sample.)	590	Formal sample could not be obtained, the shopman stating that they did not keep the article asked for.
		1 deficient in acetic acid 11.6%. (Informal	591	Formal sample obtained (See No. 621.)
		sample.) 1 deficient in acetic acid 58.3%.	621	Vendor fined 10/- and costs.
Skimmed Milk	2	1		
Margarine	32			
Condensed	4			
Milk Ground Rice	6			
Semolina	5	All genuine.		
Corn Flour	7	an gename.		
White Pepper	5			
Black Pepper	1			
Baking Powder	3			
PI.	8	Genuine. (All contained		
riour	0	traces of nitrites, but in insignificant quantity).		
Carried forward	551	Amount of penalties carried forward	-	£48 15 0

# FOOD AND DRUGS ADULTERATION ACTS.

Samples taken for Analysis during the Year 1910.

Articles taken for Analysis.	Total No. of samples taken.	Result of Analysis.	Rota- tionary No. of sample.	Proceedings taken and result.
Brought forward	551	Amount of penalties brought forward		£48 15 0
Ground	3	)		
Almonds Arrowroot	2			
Ground Ginger	2			
Tapioca	2			
Ham, Chicken and Tongue Paste	1			
Salmon and Shrimp Paste	1			
Beer	6			
Gin	3			
Rum	3			
Brandy	3			
Sweet Spirits of Nitre	8	All genuine.		
Paregoric	6			
Cream of Tartar	9			
Glycerine	4	-,-		
Olive Oil	5			
Camphorated Oil	4			
Cartaric Acid	4			
Cincture of Rhubarb	2			
Syrup of Rhubarb	1			
Ground Gentian Root	2			
Gregory's Powder	3			
TOTAL	625	Total amount of penalties		£48 15s. 0d.

#### FOOD AND DRUGS ADULTERATION ACTS.

PROCEEDINGS TAKEN WITH RESPECT TO OFFENCES OTHER THAN ADULTERATION.

Offence.	No of Sample.	Proceedings taken, &c.
Sale of Food and Drugs Act, 1899, Sec. 6 (2).  Sample of Margarine delivered to purchaser in a wrapper bearing the word "Margarine" (in	167	Vendor cautioned.
two places) in letters only 5" long, and, in addition, in large type, the name and address of of the vendor.		
Sale of Food and Drugs Acts, 1875, Sec. 17, and 1879, Sec. 5.		
Refusing to sell a sample of Milk to the Inspector.		Fined 40/- and costs.
Margarine Act, 1887, Sec. 6.		
Margarine, sold as But- ter, delivered to pur- chaser in a plain paper, and bulk in shop from which the sample was taken not labelled "Mar- garine."	622	Cases dismissed. (See page 53.)
Sale of Food and Drugs Act, 1899, Sec. 9.		
Name and address of vendor not inscribed upon his milk-cans.*		Fined 10/- and costs.
Ditto.		Fined 5/- and costs.
Ditto.		Fined 1/- and costs.
		Total Amount of penalties, £2 16s. 0d.

<sup>\*</sup> Note.—In 15 similar cases, the milk-vendors were cautioned. In the above three cases, in which proceedings were taken, two of the vendors had been cautioned previously.

## TABLE V.

Administration of the Factory and Workshop Act, 1901, IN CONNECTION WITH FACTORIES, WORKSHOPS, LAUNDRIES, WORKPLACES AND HOMEWORK, DURING THE YEAR 1910.

#### 1.-INSPECTION.

INCLUDING INSPECTIONS MADE BY SANITARY INSPECTORS OR INSPECTORS OF NUISANCES.

PREMISES.	Number of Inspections.	Number of Written Notices.	Number of Prosecutions
Factories (Including Factory Laundries.) Workshops (Including Workshop Laundries.) Workplaces (Other than Outworkers' premises included in Part 3 of this Report.)	372 4,756 432	411	Nil.
Total	5,560	411	

#### 2.—DEFECTS FOUND.

PARTICULARS.	Number of Defects Found.	Number of Defects Remedied.	Number of Defects referred to H.M. Inspector.	Number of Prosecu tions.
Nuisances under the Public Health Acts:—* Want of cleanliness	269 8 12 — 125 38 72 13	269 8 12 — 125 38 72 13		
Offences under the Factory and Work- shop Act:— Illegal occupation of underground bakehouse (s. 101) Breach of special sanitary require- ments for bakehouses (ss. 97 to 100)) Other offences (Excluding offences relating to out- work which are included in Part 3 of this Report.)	Not kept			Nil.
Total	622	622	1	

<sup>\*</sup> Including those specified in sections 2, 3, 7 and 8, of the Factory and Workshop Act as remediable under the Public Health Acts.

† Sec. 22 of the Public Health Acts Amendment Act, 1890, is in force. The standard fixed by the Sanitary Accommodation Order (No. 89) of 4th February, 1903, is followed as a model.

TABLE V.—Continued 3.—HOME WORK.

CTED	110.		snois ons (.01)	1 '60	S)	(18)		Nii.	:	:	;	:
OUTWORK IN INFECTED PREMISES.	SECTIONS 109, 110.		made (110.)	uon:	oəs)	(12)		Nil.	:	:	:	:
WORK	CTION		aham	dutel	r=0		- 0					
OUT	S	Instances.				(16)		N	:	:	:	:
K IN SOME	108.		rions.	noəs	Pros	(13)		N.	:	:	:	:
OUTWORK IN UNWHOLESOME	SECTION 108		ралла	s sa:	Notio	=		16	:	::	:	16
ON'S	S		ces.		uI	(13)		16	:	:	:	16
		Number	of Inspections of	Outworkers Premises.		(12)		530	25	61	16	573
	utions.			Failing	send Lists.	(11)		Nii.	:	:	:	:
	Prosecutions.		Failing to keep.	or permit inspec-	tion of Lists.	(10)		Nii.	:	::	:	:
07.		Number	of Addresses of	Outworkers	to other Councils.	(6)		59	:	:	:	29
OUTWORKERS' LISTS, SECTION 107.		Number	of Addresses of	Outworkers	from other Councils.	(8)		-	:	:	:	1
RS' LISTS			Year.	Outworkers.+		(2)		116	-	:	;	1117
TWORKE	loyers.		Once in the Year.	Outwo	Con-	(9)		3	:	:	:	3
Lao	rom Emp		Once		Lists.	(5)		41	-	:	:	42
	Lists received from Employers.		Year.	Outworkers.+	Con- Work-			230	20	01	12	264
	Lists		Twice in the Year.	Outw	Con-	(3)		4	:	:	:	4
			Twic		Lists.+	(3)		99	:	:	01	58
			NATURE OF WORK.			(1)	Wearing Apparel-	Making	holstery	Umbrellas, &c	Paper Bags and Boxes	Total

Note.—Columns (3), (4), (6), and (7)—Employers seldom state whether their Outworkers are "Contractors" or "Workmen," hence the numbers given above may not be properly divided.

\* The Notices were served upon the Outworker in each case, and were immediately complied with.

+The figures in columns 2, 3, and 4 are the fotal number of lists (received from employers who sent them both in February and August as required by the Act) and of the entries of names of outworkers in those lists. They are, therefore, double of the number of such employers and (approximately) double of the number of individual outworkers whose names are given, since in the February and August lists of the same employer the same outworker's name is often repeated.

In cases where an employer gives out work of more than one of the classes specified in Column (1), the "list" is included in Column (2), or (5), as the case may be, against the principal class only, but the outworkers are assigned in Columns 3 and 4 (or 6 and 7), into their respective classes.

# TABLE V.—Continued. 4.—REGISTERED WORKSHOPS.

	Factories	***	***	 	 636
Important classes of workshops, such as workshop bake- houses may be enumerated here.	Workshops			 	 1,127
	Domestic Wo	orksh	ops	 	 146
	Workplaces			 	 132
	Laundries		***	 	 53
	Bakehouses			 	 100

#### 5.—OTHER MATTERS.

CLASS.	Number
Matters notified to H.M. Inspector of Factories:—	
Failure to affix Abstract of the Factory and Workshop Act (sec. 133)	11
Action taken in matters referred by H.M. Inspector as remediable under the Public Health Acts, but not under the Factory and Workshop Act (s. 5).  Notified by H.M. Inspector Reports (of Action taken) sent to H.M. Inspector	36 36
Other:—	
Underground Bakehouses (s. 101):—	
Certificates granted during the year	1
In use at the end of the year	14

# TABLE VI. REGISTERED COMMON LODGING HOUSES.

SUMMARY OF WORK DONE AND VISITS MADE DURING THE YEAR 1910.

Number of Houses on the register at		of the ye	ear	60
Applications for registration (granted	)			2
New houses registered				2
Houses closed				4
Inspections made in the day-time				10,894
" " night-time				663
Notices served   re washing of bed on the served   re washing of the washing of	lothes !	243) 121)		364
Contraventions of Bye-laws:-				
Re Cleaning and ventilation of	houses			44
" Removal of liquid filth from	n rooms			
Want of water supply				1
Bed clothes not properly "aired" du	ring pres	cribed ho	ours	
Bedding dirty or defective				10
Cleansing of yards and passages				4
Structural defects in houses				19
Defective water-closets and drains				13
Choked drains, water-closets, &c.				38
Defective roofs and spouts				1-
Want of, or defective, ash-tubs				
Offensive accumulations				
Dirty water-closets				
Lavatory basin dirty				
Wastepipe choked				1
Deaths reported (non-infectious disea				

#### TABLE VIA.

Lodgers Occupying Common Lodging Houses in the City during the Year 1910.

		Year 1910.	Corresponding Nos. for Year 1909.
Average number of Lodgers per night	 	1,410	1,430
Highest number on any one night	 	1,487	1,511
Lowest ,, ,, ,,	 	1,317	1,330
Number of Lodgers for whom accomm provided in the Common Lodgin the City at the end of the year		2,08	2,154

REPORT OF THE VETERINARY OFFICER, INSPECTOR OF MEAT, &C.

To the Medical Officer of Health.

SIR,

I have the honour to present this my fourth annual Report concerning the duties performed in my section of the Health Department during the year ending December 31st, 1910.

#### DISEASES OF ANIMALS ACTS.

The animals within the City and County of Newcastleupon-Tyne have remained free from contagious disease, communicable to man, during the past twelve months.

THE DAIRIES, COWSHEDS, AND MILKSHOPS ORDERS, 1885-1899.

There are 38 dairymen within the City who occupy 41 premises, and possess a total of 503 milch-cows. 436 visits have been made to the cowsheds and dairies by the inspectors during the past twelve months.

During the year two persons have given up the business of cow-keeping, whilst one has commenced to keep cows and has been registered.

It has been found necessary, on one or two occasions, to request the dairymen to groom their cows on account of being in a very dirty condition, and on other occasions to cleanse the udders and teats before proceeding to draw milk.

#### Disease Amongst the Cows.

Cases have occurred where it was found necessary to stop the milk supply of certain cows, and to have them isolated from the dairy herd. Of these, one was removed from the premises and destroyed, as compared with five in the previous year. [See Table No. 1.]

The reduction in the number of tuberculous cows found within the city herds during the past year should not be accepted as any definite sign, owing to the fact that, on account of increased duties under the Diseases of Animals Acts, the Veterinary Officer has been prevented from making the number of examinations of milch-cows considered desirable. Of the ten diseased cows found in the dairy herds within the city, two were affected with tuberculosis, one of these being affected in the udder.

One of the most important points concerning bovine tuberculosis, absolutely unapproached by any form of legislation in
Great Britain, is the fact that directly a tuberculous cow is
removed from a dairy herd the owner is free to take her, and
if he chooses, sell her to a dairyman in some other district
where, in the absence of veterinary inspection, she will continue
to contaminate the milk supply with the germs of a dangerous
disease or, on the other hand, he may sell her to some butcher
to be slaughtered for human food and, providing there is no
meat inspection in his district, the butcher, in order to obviate
a financial shock on account of the meat being diseased, commonly strips or "fakes" the diseased meat and sells it to an
unsus pecting public who have no means at their disposal of
determining its condition.

Knowing that the Royal Commission on Tuberculosis, appointed some years ago, gave it as their opinion "that cows' milk containing bovine tubercle bacilli is clearly a cause of tuberculosis, and of fatal tuberculosis in man," the absence of any legislation to-day, dealing with the problem of bovine-tuberculosis in regard to our food supplies—whether in the solid (meat), or more particularly in the liquid (milk) state—framed in such a way as to cause the control of the (clinically diseased) live subjects intended to produce such food stuffs, might almost be described as a national disgrace.

Were such a condition of affairs remedied and accompanied by proper compulsory national legislation dealing with the hygiene of the cowsheds, such as structure, ventilation, light, air-space, drainage, water supply, and cleanliness, applied reasonably but unmistakably, then a step in the march of progress would be taken towards eliminating the disease from the herds and consequently preventing the risk of infection to man, Besides tuberculosis, other diseases affect cows, which, through the medium of the milk, are a danger to the consumer. These diseases, particularly those affecting the udder, have received attention from time to time.

## CONDITION OF THE CITY COWSHEDS.

Two and a half years ago the task was commenced of measuring up—besides taking notes of—the whole of the dairy cowsheds within the City and County of Newcastle-upon-Tyne, with a view to obtaining particulars as to:—

- The approximate amount of cubic air-space allotted to each cow.
- 2. Defects regarding light, ventilation, and drainage.
- General fitness or otherwise of the buildings, structurally, for the healthy housing of the cows and the production of a clean milk supply.

Of the 47 cowsheds on the 41 premises occupied by the cow-keepers, only seven have the necessary amount of air-space, viz., 800 cubic feet per cow, according to the regulations. Nine sheds provide over 700 cubic feet per cow, and seven provide over 600 cubic feet per cow. Thus it will be seen that 23 sheds provide between 600 and 800 cubic feet per cow.

Of the remainder, or 50 per cent. of the whole, four sheds provide between 500 and 600 cubic feet per cow, 14 provide between 350 and 500 cubic feet per cow, whilst the remaining six each provide less than 350 cubic feet of air-space per cow. In so far as air-space is concerned, it may be said that seven cowsheds can be classed as good, nine as fair, seven as poor, four as bad, and 20 as very bad indeed. Several of the cowsheds which are provided with too many stalls for the size of the buildings, and consequently providing too little air-space per cow, may in other respects be considered passable. There are others where the cubic capacity is up to the amount required by the regulations, but where light, ventilation, or drainage is considered insufficient or even bad. Of the 20

worst cowsheds within the City, six are the property of the Corporation. Although there is not a single cowshed within the City that one could consider as model premises, yet there are many which, with slight alteration either as to light, ventilation, drainage, or as to the number of cows to be admitted, could be made reasonably fit. It is proposed to deal with them in batches by bringing a collection of the worst premises before the Sanitary Committee, providing the owners, after due notice, do not take the necessary steps to put the premises in order or cease to use them for the housing of milch-cows.

To prevent one wrongly concluding that this subject has been unduly delayed, it should be pointed out that whilst the occupiers or owners of premises have been requested, from time to time, to carry out repairs and other minor improvements, with which they have complied, it has, nevertheless, been found impossible to deal either earlier or more fully with it owing to other schemes of sanitary reform—particularly in regard to slaughter-houses—besides increase of work under the Foreign Meat Regulations and inspection of export horses under the Diseases of Animals Acts, occupying most of the time at one's disposal for such matters during the past four years.

TABLE No. 1.

Dairy Cows within the Registered Cowsheds of the City and County of Newcastle-upon-Tyne during the year 1910.

No. of Cow- keepers. No. of Cows.		No. of Cows found affected with Tuberculosis.			Cows four	of ad affected r diseases.	No. of Cows whose milk sup- ply was stopped	
		Of Udder.	Other th		Of Udder.	Other than the Udder.	at the request of	
38 503		1 1			8	_	2	
1	No of Cows	s destroyed.						
Sent to Kna Owners as ha		Destroyed by of Veterinary		No.		sposed of in by destruction	other ways than	
10		1 (Tubercu	losis)	1 (Tuberculosis)		sis)		

MEAT, PROVISIONS, FISH, FRUIT, &C.

During the year 1910, besides other meat, some 232½ home killed animal carcases have been condemned and destroyed as being unfit for human consumption. Of that number, no less than 132½ carcases were condemned on account of tuberculosis, which is the largest number of condemnations on account of this disease in any given year on record within the city. During the year the Newcastle, Gateshead and District Butchers' Cattle Insurance Society paid to its own members £1,145 4s. 2d. as compensation in respect of claims for carcases condemned for tuberculosis. This is an increase of £491 8s. 6d. on the amount paid during the year 1909, and an increase of £589 18s. 4d. on the amount paid during the year 1908.

Apart from the large number of carcases and other portions of meat belonging to butchers other than members of the local insurance society, condemned on account of disease, the above figures serve to demonstrate the increased demands made upon the financial resources of the local butchers' insurance society, for it will be observed that during the past two years the amount paid in compensation has more than doubled itself.

To point directly to the cause of the enormous increase of the losses suffered by the local butchers' insurance society, it is only necessary to mention that during the past 12 months that society has laid itself open "to be shot at" by extending the insurance to admit cows and also animals which they term second-class heifers. Under this system, an animal which is supposed to have had only one calf, is called a second-class heifer; but these are nevertheless cows, and necessarily leave objectionable loopholes, at least from the society's point of view. Cows require little or no mention, for the risks in regard to these animals are universally known to be great. disastrous has the cow class proper proved itself to the society that they have had to levy a call of £1 0s, 10d, per head on these animals to pay for the losses, and as a consequence, the society decided, from the beginning of this year, not to insure cows in the future. It is therefore anticipated that during this year

the number of carcases condemned on account of tuberculosis in this city will be greatly reduced on account of the deletion of this class; for there are very few butchers who will now undertake the financial risk of purchasing cows and killing them within the city—uninsured. It is a well recognised fact that a large number of cows of various ages and conditions of apparant health, are being regularly slaughtered in the surrounding country districts and smaller towns, and the meat never submitted to any inspection whatever. To these must again be added those cows that would have been slaughtered within the city and afterwards condemned as totally unfit for food on account of disease, had the insurance of them been allowed to continue.

It will, therefore, be very easy—without any undue imagination whatever—for one to arrive at a clear conclusion that in those districts where meat inspection does not obtain, the unsuspecting public are being regularly subjected to the dangerous process of not only handling but consuming large quantities of extensively diseased meat. As an illustration of what has just been stated regarding the absence of inspection in surrounding districts, it may be mentioned that during the past twelve months no fewer than 359 animal carcasses—slaughtered outside the city—were sent into the city to be sold, and 33 of these, or practically 10 per cent., were found diseased and unfit for food, and therefore destroyed, as will be seen from the following table:—

\* CARCASSES SLAUGHTERED OUTSIDE THE CITY SENT IN TO BE SOLD DURING THE YEAR 1910.

	No. of Carcasses.	Fit.	Unfit.	Tuberculosis.	Other Diseases.
Beef	26	17	9	7	2
Veal	7	1	6	-	6
Mutton	8	1	7	-	7
Pork	318	307	11	7	4 .
Total	359	326	33	14	19

<sup>\*</sup> The above are also included in Table No. 9.

Even in those districts where inspection is attempted, but where, unfortunately, slaughter-houses are widely scattered over the neighbourhood, the possibility of diseased meat reaching the shops can never be excluded.

Meat inspection can never approach completeness until the time arrives when it is possible to examine the live animals just prior to slaughter, and, more particularly, to inspect the carcasses and their internal organs immediately afterwards at one central establishment, such as a modern abattoir. Under such conditions only will it be possible to properly detect the existence or otherwise of diseased conditions. Moreover, a modern abattoir allows of the carcasses being dressed under proper sanitary conditions as distinguished from the difficulty of preventing the contamination with filth and other unclean methods so frequently occurring in private establishments. E.g.: One afternoon, during July last, on entering slaughterhouse premises within the city they were found in a filthy condition; dirty sacks and boxes containing old bones, fly laden and filthy, were scattered about, and a refuse cart standing in the yard was simply overladen with filth. Part of these premises were used in which to prepare cooked meats. On entering the fat mincing-room a large bath was found containing 1 cwt. 104 lbs. of intestinal and other fat, improperly cleansed and literally alive with maggots. In a tin, near the bath, was found 1 cwt. 54 lbs. of the same kind of fat, also alive with maggots. In another tin was found 1 cwt. 24 lbs. of fat, which had just been put through a machine-driven mincer, the maggots in this case having been ground up with the fat. Large maggets were crawling about the floor. According to the manager, it was intended to mince the whole lot, and then boil it down for dripping, to be sold for human consumption. The whole of the abominable filth was seized and destroyed, and, as repeated warnings had not had the desired effect, the proprietor of the establishment was summoned and fined £5 and costs.

#### SCRAPING PUTRID INTESTINES.

There are many butchers who believe that intestines, although in an advanced state of putrefactive decomposition, are quite good enough to be scraped and afterwards used for sausage making. In fact, many butchers have the impression that sausage skins cannot very well be prepared unless in a semi-putrid condition. When such skins are cleaned, they are generally rubbed and mixed with dry coarse salt, a process which partially masks the odour but does not remove the changed condition. The practice has been carried on many years by butchers and gut-scrapers, and whenever prevented when found using such skins, they appeared greatly alarmed and surprised. The use of such skins being considered not only objectionable but dangerous, the subject was brought before the Sanitary Committee in order to obtain their instructions to give a general warning to those concerned. The following letter was sent to all the butchers within the city, and the effect generally has been all that could be desired.

#### WARNING TO BUTCHERS AND OTHERS.

DEAR SIR,

It has been brought to the notice of the Sanitary Committee that it is a common practice to use putrid intestines in the manufacture of sausage skins. I am, therefore, instructed by the Committee to inform you that possession of putrid sausage skins, whether prepared or otherwise, will render the owner liable to have them seized as unsound meat.

## Yours faithfully,

THOMAS PARKER.

TABLE No. 3.

NUMBER OF VISITS AND INSPECTIONS OF PREMISES DURING THE YEAR 1910.

Slaughter Houses.	Wholesale and Retail Meat, &c., Shops.	Sausage Factories.	Fish Markets.	Meat and Provision Markets.	Fruit and Vegetable Markets.
8,500	484	36	690	500	474

## Foreign Meat Regulatons.

During the year 1910, some 116 vessels, carrying meat and other foodstuffs from foreign countries (South America, Norway, Sweden, Denmark, United States, Belgium, Holland, &c.) arrived at the Newcastle Quayside. Of these, 11 were large South American meat boats fully equipped with cold storage. 218 visits were paid to the wharves, and of the 2,141 barrels, casks, and other packages containing meat &c., opened minute examinations were made in each case.

## FOREIGN MEAT ARRIVING BY RAIL.

During every week of the year, thousands of quarters of beef, carcasses of mutton and pork, and cases of offal have arrived in the city by rail, and although the exact statistics are not available except through the North Eastern Railway Company, the quantities appear to be rapidly increasing, as observed by the increased sales in the wholesale shops.

## FOREIGN MEAT ARRIVING BY VESSELS.

The quantities of fresh, frozen and chilled foreign meat imported during the year (see Table Nos. 4 and 5) are greatly in excess of the year 1909, e.g.: there is an increase of 517 sides of fresh beef; an increase of 95,094 quarters of frozen beef, and an increase of 96,840 sides of large bacon pork. On the other hand, there has been a decrease in the imports of chilled beef to the extent of 3,990 quarters, and a slight decrease in the imports of mutton and lamb.

During the year then, independent of the large quantities of foreign meat arriving in the city by rail, the increase in imported beef and pork, landed at the Quayside, has resulted in the exact equivalent to 23,034 large bullocks and 48,420 large bacon pigs.

Several packages (see Table No. 6) were re-exported owing

to the absence of officially certified labels; others on account of the meat having been stripped of its lining membranes.

Amongst the consignments destroyed were two barrels containing horse flesh, which were imported bearing the label "Salt meat." (See Table No. 7.) Three hundred and sixteen barrels containing offal were destroyed owing to disease and unsoundness.

Included in Table No. 9 is a forequarter of South American beef, which had arrived by rail, and was deposited in a wholesale meat shop within the city. The manager, noticing something wrong, reported the matter. On inspection, it was found to have been stripped on account of tuberculosis. Surrender and destruction of the quarter completed the proceedings. Thirty of the visits made to the Quayside were in response to notices received from H.M. Customs in respect of packages detained according to the Customs regulations. It is pleasant to be able to state that from the commencement of the inspection under the Foreign Meat and Unsound Food Regulations the assistance given by the Customs officials has greatly facilitated the carrying out of these regulations on the wharves, and their co-operation generally can best be summed up as being first class. Finally, the Port Sanitary Medical Officers of Shields and London, respectively, have facilitated the work by transmitting information regarding vessels passing through their ports whilst carrying foreign food stuffs to Newcastle-upon-Tyne.

The following tables show the quantities of foreign meat imported, re-exported, destroyed, etc., whilst Tables Nos. 9 and 10 show the quantities of meat, fish, fruit, provisions, etc., other than foreign meat, destroyed within the city.

Foreign meat arriving by vessel and landed at the Newcastle-upon-Tyne Quayside:—

TABLE No. 4.

		F	RESH.		
BEEF.	VEAL.	VENISON.	MUTTON.	LAMB.	PORK.
Sides 1,872½ Casks. Cheeks 17 Udders 1 Meat 1 Tongues 4 Heads 3 Kidneys 2 Offal 72	Carcasses 11	Casks 2	Casks 26	Casks 3	Carcasses 475 Sides238,093 Casks Feet 4,105 Maws 2,338 Tongues 101 Steaks 21 Heads 4,397 Pork 51

TABLE No. 5.

	FROZEN.		CHILLED.
BEEF.	MUTTON.	LAMB.	BEEF.
Fore-qrs. 33,290 Hind-qrs. 116,811  Packages. Hearts 2,199 Tails 330 Skirts 576 Tongues 411 Livers 1,432 Kidneys 86½ Tripe 3,712½ Offal 50 Flitches 203 Cheeks 573	Legs 55 Loins 87 Shoulders 88 Hearts 769 Kidneys 601	Carcasses 4,719	Fore-qrs 680 Hind-qrs 60

The following were re-exported from this Country, at the expense of the sender, for non-compliance with the requirements of the Foreign Meat Regulations:—

TABLE No. 6.

28	Barrels of	Pork	(unlabelled Scrap Meat).
6	**	Pigs' Maws	(unlabelled).
2	"	Pork	(stripped).
2	**	Pork	(unlabelled).

The following were seized and destroyed in accordance with the Foreign Meat and Unsound Food Regulations:—

#### TABLE No. 7.

DESTROYED BY ORDER OF A JUSTICE.

2 Barrels of Horse Flesh (labelled as "Salt Meat").

1 Barrel of Ox Kidneys (Putrefactive decomposition).

DESTROYED WITH CONSENT OF OWNER.

2 Barrels of Ox Hearts (Putrefactive decomposition).

1 Barrel of Ox Kidneys "

247 Ox Kidneys "

6 Ox Hearts "

6 Ox Hearts "

60 Ox Livers (Fatty degeneration).

## SLAUGHTER HOUSES.

Besides individual premises—numbering 14—in various parts of the city, there are five groups situate at Byker, Stepney, Benwell, Scotswood Road and Dispensary Lane, making a total of 110 separate slaughter-houses. For the past 18 months, the occupier of the largest, and at the same time the worst, group within the city have been from time to time granted extensions of their licences to slaughter. One of the difficulties surrounding the displacement of these obsolete, overcrowded and unfit premises, appears to be due to the fact that, were they vacated, there is no other place within the city to which the large number of butchers could go to slaughter their stock. Another appears to be that this city, like many others, belongs to that country known as England and Wales, which is practically the only civilized country in the world that has not yet come to realise the necessity of preparing raw food-stuffs under proper sanitary conditions, and under such control as to ensure their absolute freedom from disease.

The following carcasses, &c., have been destroyed as being unfit for human consumption during the year 1910:—

Other Offal. : 11111 : : : 8 Ox Tripe. . ps. 1 : : : THE FOLLOWING CARCASSES, &C., HAVE BEEN DESTROYED AS BEING UNFIT FOR HUMAN CONSUMPTION, DURING THE YEAR 1910. Sausage Skins, :: lbs. : Fat ... 1bs. : : Minced Meat. 70 lbs. big Heads. Speep. 235 .xO Kidneys. Speep. : : : : : : :: 465 : 1 : 1 3 Ox. : : :01 : : : : : Speep. Livers. : ibs. : : : .xO : 10 8 : :00 :01 : : 1 : : big. Hearts. : : : : : : Ox. : : : Lungs. Nid. daays Ox. 6 :01 Calf. Plucks. pik. 00 Speep. Pork. 4 Ibs. : : -: : : :63-2 Veal. Mutton. Carcasses. 20:14 :01 :00 10 +469Beef. 891bs. Dropsy and Emaciaton Echinococcus Cysts Chemical Poisoning Fatty Degeneration Malignant Catarrh Septicæmia ... Pyrexia ... Imperfect Bleeding Swine Erysipelas (Unmarketable) Died in transit ... Decomposition Natural death Unwholesome Tuberculosis Traumatism Pericarditis Immaturity Congestion Pyæmia ... Abscesses Peritonitis Nephritis Cirrhosis Pleurisy

TABLE No. 9.

\* Among the beef condemned on account of tuberculosis is included a fore quarter of foreign beef which had been stripped of its lining membrane and sent into the city—by Rail.

The following provisions, fruit, fish, &c., have been destroyed as being unfit for human consumption during the year 1910:—

PROVISIONS, FRUIT, FISH, &C., DESTROYED AS BEING UNFIT FOR HUMAN CONSUMPTION DURING THE YEAR 1910.

		Trout.	:	;	Lbs. 492
	sh.	Cod.	Lbs.	:	1
	Other than Shell Fish	Findon Haddocks.	Lbs.	-	:
H.	than.	Haddocks.	Lbs. 336	:	:
FISH.	Other	Kippered Herrings.	Lbs.	:	:
		Herrings.		:	:
	Fish.	Prawns,	Lbs. 392	:	:
	Shell Fish.	Mussels.	Lbs. 112	;	:
VEGETABLES.	'su	Cauliflowe	Bas- kets. 52	:	:
VEGET	-	Carrots	Cwts. 38½	:	:
	's	TuniaW	:	Lbs. 784	:
	*1	Pemons	Boxes.	:	:
	La constitution of the con	Pears.	Lbs.	:	:
FRUIT.	,sai	Gooseberr	Lbs. 352	- ;	:
4	*5	Cherries	Bas- kets. 76	:	:
	*80	Bilberrie	Chips 26	:	:
	'81	Bramble	Chips 26	:	:
AME.		Grouse	75	:	:
S G		Hares.	00	:	:
POULTRY AND GAME.	'8	Habbit	357	. :	:
Pour		Geese	32		:
PRO-		Yeast'	Lbs. 247	:	:
P		Васоп	Lbs.	:	:
			Decomposition	Mould	Unseasonable (Unclean)

Prosecutions during Year 1910.

For not properly cleansing their slaughter-house premises, two occupiers were summoned and each fined 40/- and costs.

For depositing a diseased cow within a slaughter-house to slaughter for human consumption, the owner was fined £20 and costs, whilst the slaughterman was fined 10/- and costs for being in possession of the carcass.

For preparing food for human consumption from unsound maggoty fat, the proprietor of premises within the city was fined £5 and costs.

I have the honour to be, Sir,
Your obedient Servant,
THOMAS PARKER, F.R.C.V.S.
Veterinary Officer,
Inspector of Meat, Provisions, &c.

Health Department,

Town Hall,

Newcastle-on-Tyne,

20th March, 1911.

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

#### SUMMARY OF REPORTS MADE DURING 1910.

The following, among other matters, have been brought before the Sanitary Committee by the Medical Officer of Health during the year:—

#### INFECTIOUS DISEASE. Jan., July. Jan. Feb., March. March. Diphtheria and supply of Antitoxin to medical practitioners in the City April, Nov. June. ... Scarlet Fever in connection with a milk custom ... July. Itch among newspaper boys ... ... ... ... ... ... ... ... Aug. Dec. CITY HOSPITAL FOR INFECTIOUS DISEASES. Tenders for coal ... ... ... ... ... ... ... ... ... Feb. ... ... -Feb. Tenders for furnishings, patients' clothing, &c. Apr., May. Examination for Nurses... ... Tennis Court ... Fish supply ... Nurses with Enteric Fever ... May. ... ... May. Oct. Dec. SMALLPOX AND ISOLATION HOSPITALS, TOWN MOOR. Re-opening of Isolation Hospital ... ... ... ... ... ... ... April. Caretakers ... ... ... ... ... ... ... ... Sept., Nov., Dec. LOCALITIES, ETC. Houses unfit for habitation ...Jan. (bis.), March, April (bis), Aug. (bis.) Sept., Dec. Vegetable Market, Newgate Street-Deposit of Vegetables Jan., Aug. Feb. (bis). Brewery Yard, Byker Bank—Slaughter House ... ... Feb., May. Ropery Walk, St. Anthony's-Pailclosets... April, May. ... Northumberland Road—Old Sewer ... ... ... Stotts House Farm, Walker—Drainage ... ... April. Oct. Sir W. G. Armstrong, Whitworth & Co.'s Shipyard, Walker -Houses closed in connection with ... ... Nov. Marshall Street-Dirty house ... ... Dec. GENERAL. Bacteriological Examinations ... ... ... Pollution of water through ball hydrants ... ... ... Fortnightly, ... Jan. (bis.), May, Jan. Tuberculous Milk ... ... ... June, July, Aug. (bis.) Horse for Health Department ... ... Hides and Skins on Carriers' Carts ... ... ... Jan., Dec. Jan., June. Compensation to butchers for condemned carcases Jan. Estimates of Expenditure for 1910-11 ... ... Jan. Inspector Thomas Dodds - Application for increase of Feb., Dec. ... Feb., Mar., April. Feb. ...April, May, Sept., April. Salary of Inspector of Nuisances ... Report of Special Committee as to Municipal Employés May, June, Bottle Feeding of infants-Circular to druggists, &c. May.

Protection of meat carcases during tra	ansit—Ci	reular fr	om	
Cold Storage and Ice Association				1
Treatment of blood, &c., from slaughter	houses			June.
Bakehouses not in conformity with	E and	117 4		Aug., Sept.
Circular from National Association	r. and	W. Ac	t—	
and Confectioners	n or Mas	ster Bak	ers	
and Confectioners				Aug.
Street watering, urinal flushing, and cle	ansing of	f privy pa	ails	
and ashtubs	***			Aug., Sept.
water Supply of Health Department				Aug.
visit to Netherlands—Invitation to Medi	cal Office	er of Hea	lth	
from Netherlands Government				Aug., Oct.
Smoke Abatement League				
Breach of Midwives' Act, 1902, and N	otificatio	n of Die	tho	Sept., Dec.
Act, 1907	otineatio	m or bir		0
Grading of Clerks in Health Department		***		Sept.
Royal Sanitary Institute C		***	***	Oct., Nov.
Royal Sanitary Institute Congress,	Brighton-	-Report	of	
Deputation		***	***	Oct.
Newcastle Improvement Bill-Spitting i	n public j	places		Oct.
inspectors of Nuisances and power of e	ntry to fa	ictories a	ind	
workshops				Nov.
Offensive trades				Nov., Dec.
Report of Deputation as to Midland C.	attle Pro	ducts I t	d	NOV., Dec.
Birmingham and Barking	Tere i io	ducts, Lit		N
Royal Sanitary Institute Congress, Belfa	et 1011		***	Nov.
Ptomaine Poisoning	st, 1911			Dec.
Ptomaine Poisoning	***	***		Dec.
Illness of Superintendent of Midwives		***		Dec.

## INSANITARY DWELLINGS DEALT WITH.

UNDER THE NEWCASTLE-UPON-TYNE IMPROVEMENT ACT, 1882, Sec. 32.

Insanitary Dwellings.

TENEMEN	г но	USES.			No. o	f
Closed.—11, Prudhoe Place (cottages in 216, Pilgrim Street (common 38, St Ann Street and 1, Whi 71, Stepney Lane	lodgin	g house)		1 2 1	s	Holdings.  2  4 1
CELLAR D	WELI	JNGS.		6		6 Common ig House)
Closed.—34, 65, 70, 78, 80, 81, 82, 92,	97, 99	, 101, 106,	107.			lodgers.
108, Blenheim Street				14		19
10, Vine Lane				1		1
Use as sleeping apartments discontinu	ed-					
29, 31, 35, 37, 41, 43, 47, 49, 53, 58, 89, 91, Blenheim Street		White Stre	et	11		11
				2		2
Satisfactory alterations made— 74, 100, 102, Blenheim Street		***		3		3
Plans submitted, but alterations not	carrie	ed out at	lose			
of year— 63, 73, Blenheim Street				2		4
105, Blandford Street				1		1
Tenant under notice to leave-						
95, Blenheim Street				1		1
Nothing done at close of year-						
47, 49, 51, 61, 68, 71, 75, 76, 77, 7	9, 93,	103, 105, E	Blen-			
heim Street				13		19
30, 34, 38, Back Rosedale Street	***			3		3
				57		70
			-		Lodgin	Common g House) lodgers.

The following houses, proceedings in connection with which were begun in previous years, have been dealt with as follows:—

8, Brough's Buildings .- Put in habitable repair.

2, 3, 4, Wilson's Yard, and Surveyed by Insanitary Dwellings Committee.

13, Wall Knoll, Under consideration at close of year.

Churchill Cottages (15 houses).—Closed. Vale Cottage, Jesmond Vale.—Closed.

Diamond Row | Surveyed by Insanitary Dwellings Committee. No further action to be taken for the present.

Hemel's Row.-Alterations in progress.

Battlehill Houses | Closing Order made, but time allowed owners to get tenants out.

#### CELLAR DWELLINGS.

118, Blenheim Street.—Let as workshop.
55, 57, 85, 89, 92, 94, 103, 110, Blandford Street.—Satisfactory alterations made.
109, 111, Blandford Street.—Closed.

#### HOUSES BUILT DURING THE YEAR 1910.

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

Newcastle-upon-Tyne.		Se	Houses If-contain	ed. T	Houses o	
Benwell	 		5		51	
Fenham	 		36		-	
Elswick Township	 		1		4	
Westgate Township	 					
Byker Township	 				10	
Jesmond Township	 		41		22	
Heaton Township	 		51		7	
St. Andrew's Parish	 		2		_	
St. John's Parish	 		-			
St. Nicholas' Parish	 		-		_	
All Saints' Parish	 		-		-	
Walker	 	***	31		5	
			167	(for 1	99 98 familie	100

New accommodation has thus been provided for 365 families, or at the rate of 5 persons to a family, 1,825 persons, as compared with accommodation estimated for 2,365 persons provided during 1909.

#### SANITARY ALTERATIONS.

Sanitary Alterations. 22 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 16 during the previous year.

HENRY E. ARMSTRONG, D.Hy.,

Health Department, Town Hall, Newcastle-upon-Tyne, 4th May, 1910. Medical Officer of Health.

# CITY AND COUNTY OF NEWCASTLE-UPON-TYNE, 1909.

## APPENDIX A.

TABLE I.

Population (Estimated by the Registrar-General to the Middle of the Year), 285,951.

Registration Sub-districts and City.	Different Quarter of the Year.		s Registe Weeks en Decembe	ided	V	s Registe Veeks en Decembe	ded
		Male	. Female	Total.	Male.	Female	. Total.
Benwell	1st Quarter	120	119	239	46	38	84
	2nd	124		228	27	38	65
	3rd ,,	117	0.00.00	224	34	35	69
	4+1-	107		220	47	42	89
	Total	468	443	911	154	153	307
Elswick	1st Quarter	167	192	359	154	113	267
	2nd ,,	215	184	399	121	116	237
	3rd ,,	182	180	362	124	88	212
	4+1-	190	167	357	132	138	270
	Total	754	723	1,477	531	455	986
St. Nicholas'	1st Quarter	120	122	242	48	54	102
	2nd ,,	116	119	235	55	53	108
	3rd ,,	114	123	237	60	55	115
	4th ,,	97	119	216	61	60	121
	Total	447	483	930	224	222	446
St. Andrew's	1st Quarter	92	81	173	147	124	271
	04	95		179	145	115	260
	2 e.4	98		188	157	113	270
	4+b	86		177	161	129	290
	Total	371	346	717	610	481	1,091
All Saints'	1st Quarter .	122	120	242	44	47	91
	2nd ,,	108	109	217	38	42	80
	3rd ,, .	123	125	248	64	51	115
	4th ,, .	121	114	235	47	49	96
	Total .	474	468	942	193	189	382
Byker		260	241	501	103	88	191
	Ond	255	264	519	91	83	174
	3rd ,, .	262	271	533	95	96	191
	4th ,, .	249	241	490	118	103	221
	Total .	1,026	1,017	2,043	407	370	777
Walker		62	74	136	33	28	61
		68	63	131	36	34	70
	3rd ,, .	66	65	131	34	29	63
	4+1-	. 67	58	125	36	33	69
	Total .	. 263	260	523	139	124	263
City		. 943	949	1,892	575	492	1,067
		. 981	927	1,908	513	481	994
	3rd " .		961	1,923	568	467	1,035
	4th "	. 917	903	1,820	602	554	1,156
	Total	. 3,803	3,740	7,543	2,258	1,994	4,252

The Births represent a rate of 26.4, and the Deaths a rate of 14.9 per 1,000 estimated population. The increase of Births over Deaths is 3,291 this year, as compared with 3,223 in 1909.

TABLE II.

RETURN OF DEATHS FROM ALL CAUSES AND AT ALL AGES IN THE REGISTRATION SUB-DISTRICTS AND ENTIRE CITY DURING THE 52 WEEKS ENDED 31ST DECEMBER, 1910.

		R	EGISTRAT	ION SUB-	DISTRIC	rs AND	City.	
CAUSE OF DEATH.	Cmv.	Benwell.	Elswick.+	St. Nicholas'.	St. Andrew's.1	All Saints'.	Byker.	Walker.*
Smallpox	1 87 12	4	 11 2	 12	1 13	13	 27 	 7 10
Epidemic Influenza	18 79 39 1 4	4 6 4 	7 10 2 	9 2 2	5 2 4 	1 15 1 	27 1 1 1	1 10 25 
Enteric Fever	9 29 74 4	8 8 2	1 6 8 	3 17	3 17 1	6 4 	3 11	8  9 1
Anthrax, Splenic Fever	1			***	1			
Syphilis	15	1		5	2	1	5	1
Erysipelas	4 11 2 11		 	  1	1 9 2 8	1	1  2	 2 
Rheumatic Fever, Rheumatism of Heart	13 3		4 1	2	3 2	1	3	
Tubercular Disease of Brain or Meninges, Acute Hydrocephalus . Laryngeal and Pulmonary Phthisis .	72 331	4 24	21 107	8 40	17 51	7 32	10 63	5 14
Tabes Mesenterica, Tubercular Disease of Intestine General Tuberculosis, Tubercular	15		3	1	1	5	5	
Disease of Undefined Position Other forms of Tuberculosis, Scrofula	12 81	9	3 16	 5	2 27	1 5	5 10	1 9
Total Tuberculosis	511	37	150	54	98	50	93	29
Starvation, Want of Breast Milk Rickets	2 15 3 2	ï	1 4 	1 6 1	 4 1	 1	  1	

TABLE II.—CONTINUED.

RETURN OF DEATHS FROM ALL CAUSES AND AT ALL AGES IN THE REGISTRATION SUB-DISTRICTS AND ENTIRE CITY DURING THE 52 WEEKS ENDED 31ST DECEMBER, 1910.

		REGISTRATION SUB-DISTRICTS AND CITY.								
CAUSE OF DEATH.	Citry.	Benwell,	Elswick.+	St. Nicholas'.	St. Andrew's ;	All Saints.'	Byker.	Walker.*		
Osteo-arthritis, Rheumatoid Arthritis Gout	2 1 286 34 1 19 3	 12 1 	63 7 	 24 3 	2 1 129 14 1 11 3	 14 2 	 37 6  5	 7 1  2		
Premature Birth Debility at Birth. Injury at Birth. Atelectasis. Malformation of Heart Spina Bifida, Hydrocephalus Imperforate Anus Cleft Palate, Hare-lip. Other Congenital Defects Old Age, Senile Decay	142 102 5 14 5 5 3 4 31 279	15 10  1    3 12	33 16  2 1 2  11 129	10 8 2  1 1 7 23	13 4 1 4  2 2 2 1 4 20	23 18  3   2 20	36 36 2 1 4 1  1 4 54	12 10  3   1  21		
Inflammation of Brain or Membranes . Convulsions	39 113 187 12 21 2 13 3 26 2 14	3 17 13 1 1   2  2	4 20 64 2 6  10  7 1 4	4 12 26  1  2 1  3	10 10 28 5 4  2 2 2 2  4	5 20 10  2  1 3  1	11 26 35 4 6 2 1  4  5	2 8 11  1  6 		
Otitis, Otorrhœa	86 3 8 10 20 5	 3   1 	1 27  1 8 2 1	5 1 2 1	5 33 1 4 5 8 1	 1  1 	 15 2 1 1 2 1	2 2 1		

TABLE II.—CONTINUED.

RETURN OF DEATHS FROM ALE CAUSES AND AT ALL AGES IN THE REGISTRATION SUB-DISTRICTS AND ENTIRE CITY DURING THE 52 WEEKS ENDED 31ST DECEMBER, 1910.

		REG	ISTRATIO	N SUB-I	DISTRICT	s and C	ITY.	
CAUSE OF DEATH.	CITY.	Benwell.	Elswick.+	St. Nicholas'.	St. Andrew's.:	All Saints'.	Byker.	Walker.*
Varicose Veins	1						1	
Other and Undefined Diseases of Heart and Circulatory System .	299	23	84	28	79	26	51	8
Laryngitis	10		1	2		3	3	1
Other Diseases of Larynx and Trachea	1				1			
Bronchitis	315	27	78	55	36	41	66	12
Lobar, Croupous Pneumonia	46	8	10	5	11	0.1	46	8 7
Lobular, Broncho-Pneumonia Pneumonia, form not stated	161 101	17 10	26 16	17	24 33	24 10	18	3
Emphysema, Asthma	15	2	5	2	2	1	3	
Pleurisy	16		7	2	4		2	1
Respiratory System	19	1	2	1	8	1	6	
Sore Throat, Quinsy	2			1				1
Diseases of Stomach	56	8	13	4	17	6	5	3
Enteritis	50 40	5 2	7 8	6	25 19	1 2	5 2	1
Obstruction of Intestine	60	1	2	2	50	2	2	i
Peritonitis	19				14	1	4	
Other Diseases of Digestive System .	29	2	7		16	2	1	1
Diseases of Lymphatic System	1 -				1			***
Acute Nephritis	90	7	16	7	30	9	15	6
Bright's Disease, Albuminuria	31	1	9	6	7	2	6	
Calculus	2 44	ï		1	22		1 2	
Other and Undefined Diseases of	44	1	***		22	***	-	
Urinary System	26	4	10	1	25	2	3	1
Diseases of Ovaries	1				1			
Abortion, Miscarriage	3			1	1			1
Puerperal Mania	1					***	1	
Puerperal Convulsions	2 2	1	1			1	- 1	
Other and Undefined Accidents of	-					***		
Childbirth	14	2	4	3	2	1	2	

## TABLE II.—CONTINUED.

RETURN OF DEATHS FROM ALL CAUSES AND AT ALL AGES IN THE REGISTRATION SUB-DISTRICTS AND ENTIRE CITY DURING THE 52 WEEKS ENDED 31ST DECEMBER, 1910.

		REG	DISTRATIO	N SUB-	DISTRICT	S AND C	ITY.	
CAUSE OF DEATH.	CITY.	Benwell.	Efswick.+	St. Nicholas'.	St. Andrew's.1	All Saints'.	Byker.	Walker.*
Arthritis, Ostitis, Periostitis	10		1		7	1	1	
Other and Undefined Diseases of Organs of Locomotion	8	1	2		3		1	1
Ulcer, Bedsore	9		2	1	4	1	1	
Other and Undefined Diseases of Integumentary System	4	1			2	1		
Deaths from Accident or Negligence—				2				
In Mines and Quarries	12			1	10			1
By Vehicles and Horses	11	1	1	1	9		***	****
On Railways	11	1	***	1	9	***		****
than Drowning)	1				1			
In Building Operations	1				î			
By Machinery	6		1		5			
Burns and Scalds	29	1	2		24	1		1
Poisons, Poisonous Vapours	3		1	1	1			
Drowning	13	1	3	4	***	3	***	2
Suffocation, overlaid in bed	7		1	3	1	1		1
Suffocation, otherwise	7	1	2	***	2		2	
Falls	21		2	1	14	3	1	***
Otherwise and not stated	13	1	1	1	8		1	1
Homicide	3			;	3			
Suicide	31	2	2	4	10	1	9	3
Execution	1		***	***		1		***
Sudden Death (cause not ascertained) Other III-defined and not Specified	1			1				
Causes	106	4	18	13	25	14	29	3
TOTAL	4,252	307	986	446	1.091	382	777	263

<sup>†</sup> Includes Union Workhouse. † Includes new Royal Victoria Infirmary and Fleming Memorial Hospital for Sick Children. \* Includes City Hospital for Infectious Diseases.

TABLE III.

RETURN OF DEATHS UNDER ONE YEAR OF AGE OCCURRING IN THE CITY DURING THE 52 WEEKS ENDED 31ST DECEMBER, 1910.

CAUSE OF DEATH,	lst Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	TOTAL.
Measles		2	9	c	17
Canalat Passas				6	17
Whooping Cough	-	5	9	19	38
Diarrhœa, Dysentery	4	7	5	1	17
Epidemic or Zymotic Enteritis		2	33	11	47
Syphilis		3	7	2	13
Erysipelas	1 2				1
Pyæmia, Septicæmia	57		1		î
Other Septic Diseases	1				1
Tetanus					1
	1	***	***	1111	1
Tubercular Disease of Brain or Meninges.	1				
Acute Hydrocephalus	. 3	6	4	2	15
Laryngeal and Pulmonary Phthisis		2			2
Tabes Mesenterica, Tubercular Disease		100			10000
of Intestine		2	1	1	5
Other forms of Tuberculosis, Scrofula	. 2	3	1	4	10
Total Tuberculosis	. 6	13	6	7	32
Starvation, Want of Breast Milk		2			2
Rickets			2	2	6
Premature Birth	. 44	23	43	32	142
Debility at Birth	25	21	23.	33	102
Injury at Birth	. 1	2		2	5
Atelectasis	. 5		1	7	13
Malformation of Heart		1	3	1	5
Spina Bifida, Hydrocephalus			1		4
Imperforate Anus		2	1		3
Cleft Palate, Hare-lip	. 1	2		1	4
Other Congenital Defects		7	11	4	30
Inflammation of Brain or Membranes		1	2	2	8
Convulsions	25	18	26	24	93
Epilepsy		1	2		3
Paraplegia, Disease of Spinal Cord		***	1		2
Otitis, Otorrhœa	1	***			1
Diseases of Heart and Circulatory	1 39				
System					1
Laryngitis		2	:::	1	4
Bronchitis		18	15	44	104
Lobar, Croupous Pneumonia	0.000			1 07	1
Lobular, Broncho-Pneumonia	2.00	7	17	27	66
Pneumonia, form not stated Other and Undefined Diseases of Res-	4	4	1	5	14
	0			0	=
piratory System Diseases of Stomach		1 7		2	5 17
49		7	7	7	20
01		3 4	3 2		10
			4	1	
Other Diseases of Digestive System Acute Nephritis	1	1		150	7
Discours of Common of Languages	1 100	1	1		_ 1
Burns and Scalds	1000	1	1		2
Drowning	1350	0	1		1
Suffocation, overlaid in bed	1	3	2	1	7
Suffocation, otherwise		1			4
Other III-defined and not Specified Causes		18	17	19	71
- I I I I I I I I I I I I I I I I I I I	11	10	.,		
Towar	225	183	257	263	928
Total	-				

TABLE IV.

DEATHS OF INFANTS UNDER ONE YEAR OF AGE.

	one w				***	***	***		204	
Two	ek an	d unde	r two w	eeks		***	***		38	
	27	**	three	"	***				39	
Three	"	11	four	27	***		****		35	
	Tota	d unde	r one m	onth						316
One me	onth a	nd und	ler two	mon	ths				118	
Two	**	,,,	three	,,					71	
	Tota	1 unde	r three	mon	ths					505
Three i	nonth	s and u	under fo	ur n	nonths				64	000
Four	,,,	**	fix		11		***		53	
Five	**	"	si		"			***	59	
					"				00	
	Tota	1 unde	r six mo	nths						681
	nths a	nd und	ler seve	n me	onths				42	
Seven	,,	- 17	eight		31				40	
Eight	22	"	nine		11				49	
	m .									
			r nine n				***			812
Nine m	onths	and ur	ider ten	moi	nths				37	
Ten	**	33	elev	ven	,,	***			38	
Eleven	>:	**		lve					41	
	Tota	Lunder	r one ye	ar						928

TABLE V.

SUMMARY OF INFANTILE MORTALITY-TEN YEARS, 1901-10.

	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910
Infantile Death-rate per 1,000 births	177	139	166	155	138	153	126	139	122	123
Death-rate of Infants under 3 months per 1,000 births		74.8	84.9	82.6	71.6	75.6	68.6	76.6	64.8	66-9
Death rate per 1,000 births of Infants from Premature Birth		20.7	25.1	20.9	19.7	22.0	21.2	24.8	19.8	18.8
Death-rate per 1,000 births of Infants from Premature Birth plus all Congenital Causes*		51.7	62.1	60.6	52-1	61.5	43.0	44.6	42.3	42.6
Death-rate per 1,000 births of Infants from Diarrhæa and all other Digestive Diseases +	45.7	12.8	26.9	21.8	22-4	35.2	12.7	24.8	13.5	16.7

<sup>\* &</sup>quot;All Congenital Causes" includes Syphilis, Debility at Birth, Injury at Birth, Atelectasis, Malformation of Heart, Spina Bifida, Hydrocephalus, Imperforate Anus, Cleft Palate, Hare-Lip, other Congenital Defects, and other and undefined Accidents of Childbirth.

<sup>†&</sup>quot; Diarrhœa and all other Digestive Diseases" includes Diarrhœa, Dysentry, Epidemic or Zymotic Enteritis, Thrush, Starvation, Want of Breast Milk, Rickets, Sore Throat, Quinsy, Diseases of Stomach, Enteritis, Cirrhosis of Liver, Obstruction of Intestine, Peritonitis, and other Diseases of Digestive System,

### TABLE VI.

Annual Death-Rate from All Causes and from the "Chief Zymotic Diseases" per 1,000 living in Newcastle, compared with the Average Rates in the Large Towns in the United Kingdom.

		All Ca	auses.	"Chief Z Disease	
		19	10.	19	10.
		Average in 77 Towns.	Rate in New- castle.	Average in 77 Towns.	Rate in New- castle.
1st Qua	rter	 14.8+	14.9	0.97+	0.56
2nd "		 12.6	13.9	1.14	0.73
3rd ,,		 11.6	14.5	1.54	1.83
4th ,,		 14.6	16.2	1.29	1.51
Anı	nual Rate	 13.4	14.9	1.23	1.16

<sup>\*</sup> Smallpox, Scarlet Fever, Diphtheria, Typhus, Enteric, and Continued "Fevers," Measles, Whooping Cough, and Diarrhœa, which now includes Dysentery, Epidemic and Zymotic Enteritis, and Intestinal Catarrh.

TABLE VII.—AGES AT DEATH.

			Regi	STRATION	SUB-DISTRI	CTS.		
Periods.	Total in City.	Benwell.	Elswick.	St. Nicholas'.	St. Andrew's.	All Saints'.	Byker.	Walker.
Under 1 Year	928	100	158	118	119	121	242	70
1 Year & under 5 Years	531	46	84	57	123	65	98	58
5 Years " 20 "	315	21	38	30	127	27	39	33
20 ,, ,, 40 ,,	524	38	114	50	193	39	68	22
40 ,, ,, 60 ,,	807	36	191	85	273	61	127	34
60 ,, ,, 80 ,,	980	51	337	90	224	59	176	43
80 ,, and upwards	167	15	64	16	32	10	27	3
Total (all ages) dying during 52 weeks ended 31st December, 1910	4,252	307	986	446	1,091	382	777	263

<sup>+76</sup> Towns.

TABLE VIII.

ENTERIC FEVER IN RELATION TO THE ELIMINATION OF THE CONSERVANCY SYSTEM OF DISPOSAL OF EXCRETA DURING THE LAST 20 YEARS.

	CITY ENGINE	ER'S CENSUS OF	ENTERIO	FEVER.
YEAR.	Number of Dry Closets in the City.	Number of Water Closets in the City.	No. of Cases.	Attack Rate per 1000 population.
1891	8,244	21,966	134	0.71
1892	8,640	24,749	97	0.50
1893	8,566	25,822	141	0.73
1894	8,515	26,997	164	0.81
1895	8,661	27,848	213	1.03
1896	8,867	28,977	176	0.83
1897	8,982	29,931	138	0.63
1898	9,317	31,158	307	1.38
1899	7,689	33,030	133	0.58
1900	7,966	33,708	79	0.34
1901	7,956	34,408	76	0.35
1902	7,863	35,323	57	0.26
1903	7,613	36,661	75	0.34
1904	7,313	37,985	30	0.13
1905	9,741*	42,175	50	0.19
1906	9,501	43,348	70	0.26
1907	9,237	43,460	66	0.24
1908	9,109	44,803	111	0.40
1909	8,781	45,468	74	0.26
1910	8,428	46,458	63	0.22

<sup>\*</sup> The large increase in the number of dry closets in 1905 is due to the incorporation of Walker and Benwell in November, 1904, these districts having a privy-box system.

The proportion of Dry Closets to Water Closets has thus fallen from 1 to 2.66 in 1891 to 1 to 5.5 in 1910, while the Enteric incidence is roughly one-fourth of what it was.

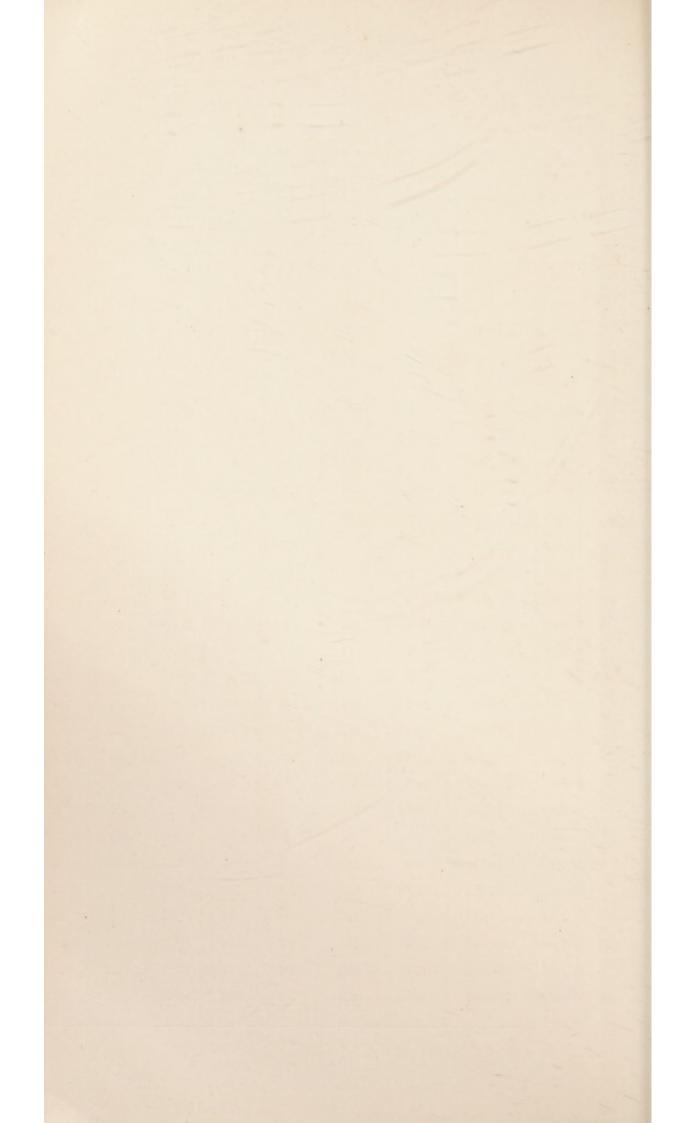


TABLE IX.

CITY AND COUNTY OF NEWCASTLE-UPON-TYNE.

DEBETAIN OTHER DEBEASES DURING THE PERIOD OF THE NOTIFE

			Toranna		Diam	MICA.		San	LL PORT.		. 70	respon		Byrone	Pour.			Dorse	WHILE.			Science	Trees.			Bern	PELAN.		Man	130-	Pen	100s.	Pane	PERMA.	CA	ALEK.
Year.	Personania.	Dearer Rate.	Mosnutire (Depths per 1,000 Births).		Number of Deaths.	Death Bate per 1,000 Popu- lation.	Cones Notified	Nombus of Deaths.	Case Mortality per cent.	Depth State per 1,000/Popu- lation.	Canen Notified.	Number of Deaths.	Cress Northal	Number of Deaths.	Com Moreothy per cent.	Dooth Bute per 1,000 Papa latent	Cours Notified.	Number of Deaths.	Con Homality per cent.	Death Buse per 1,000 Popu- lation.	Cases Nutrited.	Number of Deaths.	Cane Morrality per cent.	Desth Rate per 1,860/upa- fation.	Caren Nonclosi	Number of Deaths.	Case Mornolay per case.	Besth Rate per 1,000 Popu- lation.	Number of Deaths.	Death State per 1,000 Popu- lation.	Number of Deaths,	Death Rate per 1,000 Pape lation.				Death Hate per 1,000 Pope lation.
1883	149,464	25-4	168	43	105	0.70	410	60	122	0-40	166	24	216	42	19-4	0-28	29	11	37-9	0.07	1.182	124	10-8	0-83					200	1:40			7	1		
1884	151,325	23-5	156	32	164	1:08	174	12	20	0.08	17		200	47	18-1	0:31	26	20	21.0	0-10	2,167	156	7-2	1-03		10		0.07	15	0-10	329	22	- 16		73	0.48
1885	153,200	260	174	44	113	0.74	70	3	43	0.02	9	7	253	56	22-1	0.36	93	26	280	0:17	1.227	33	68	9-54		16		0.10	259	234	368	24	11	4.	64	0-42
1886	155,117	22.2	156	2.5	147	0.95	5				1		205	34	16-6	0.22	23	19	26-0	012	1,004	45	4.5	0.29		12		0.08	42	0.27	362	23	14	11	81	0.52
1887	187,048	25-2	174	33	115	0.73	7				37	4	325	42	129	0.27	90	31	344	0.20	1,208	56	91	0.24		10		0.12	211	1:04	341	22	10	4	77	0-49
1888	159,003	20-5	138	14	66	0-42					4	1	122	23	189	0.14	97	33	34.0	0.21	749	24	3.2	0-15		5		0.03	10	0.06	348	22	8	3	115	0.72
1880	160,983	25-0	175	3-0	198	1-23					7	2	138	19	14-0	0.12	96	30	31/2	0.19	601	30	5-0	0/19	- 2	13		0.09	94	0.58	387	24	2	2	23	0.45
1890	162,987	262	100	21	187	0.96	-4				17.	. 3	198	35	17:7	0:21	181	44	24:3	0:27	613	26	4:2	0:16	148	25		0.15	7	0-04	383	23	4	3	92	0.50
1891	187,502	23 6	175	2.5	83	0-44					19	2	534	21	179	0.13	121	42	34-7	0.22	289	39	5-0	0:21	1100	11		0.06	128	0.68	398	24	5	2	107	0.57
1892	192,295	19-5	150	1:5	23	0.38	4	1	25 0	0.005			97	14	14:4	0-07	150	41	20.3	0.01	963	29	3.0	0.15	N to	8		0-01	62	0:35	400	2:1	7	2	105	0.55
1893	197,026	20·8	174	2:3	154	0.78	25				3	2	141	28	17:7	0.13	171	28	18-4	0.14	6003	23	23	0.12	2			0.04	208	1:06	347	1:2	4	2	123	0.62
1894	201,947	18-0	157	1-9	79	0.39	2						164	30	18-3	0-15	112	27	24:1	0-13	536	27	33	0-13		7		0.03	94	0.47	370	1%	4	1	116	0.57
1893	207,021	2019	186	2:1	152	0.73							213	435	22-5	0.23	174	49	29.2	0:24	959	26	27	0-13		3		0.01	140	0.68	406	2-0	13	- 5	141	0.68
1896	212,223	19-4	165	18	77	0.56							176	33	18-7	0.16	164	34	29-7	0.16	896	23	2-6	0:11		6.		0.03	133	0.63	401	1-9	6	5	142	0.67
1897	217,555	18-7	177	1.6	142	0.65							138	33	23.9	0.15	102	29	18-6	0.09	496	24	4.8	0.11		4		0.62	96	0.44	375	17	7	3	143	
1898	223,021	20-9	190	22	146	0.65	17	3	17-6	0.01			307	66	21.5	0.30	89	22	30-3	0.12	692	20	38	0.12		5		0.02	125	0:58	412	18	2		174	
1899	228,625	20-2	193	146	146	0:64					1	1	133	22	16-5	0-30	107	25	23-4	0-11	622	28	4.5	0-12		12		0.05	79	0.33	308	17	3		161	0.70
2900	234,369	19-1	109	1:2	13	0:35					2	1	79	18	22-8	0.08	101	27	20.7	0.11	603	20	3/3	0.00	141	3	50	9-03	87	0:37	405	1.7	1	-	174	
1901	215,718	21/2	177	22	249	1-2	25	1	4-0	0-005	2		76	12	15-8	0.08	100	36	24-7	0.17	1,389		3.0	0-19	135	11	81	0.02	68	0.32	428	20	3	1	214	
1902	219,021	19-6	139	1.0	57	0-28	13	1	2.2	0-005	1	1	87	8	140	0.04	133	21	15-8	0.10	1,382		43	0.27	179	10	5-6	0-05	137	0.63	357	16	1		197	0.90
1963	222,241	18-6	166	1-1	118	0:57	155	9	5.6	0.04	3		25	9	12-0	0.01	147	36	24.5	0-16	1,175		26	0/14	191	0	4-7	0.04	12	0.05	371	17	1 3		200	0.90
1904	225,562	18-8	155	1.5	99	0.44	351	. 17	46	0.08			50	7	23:3	0.03	235	47	20-0	0.21	556		28	0-11	206		3-9	0-04	56	0-25	377	12	1		231	0.97
1905	264,511	17-4	138	1:3	144	0.54	103	2	19	0.000			50	11	22-0	6-01	288	82	19-1	0.20	705		20		213	1	33	0.03	163	0-14	997	1:5	1 .	-	222	
1906	268,721	18.0	153	21	257	0-95							70	13	18-6	0.05	364	66	18-1	0.25	733		23		187		27	0-02	116	0.42	396	1-3		2	238	
1907	272,969	16-8	125	114	46	0-17	1				3		- 66	11	16-6	0.04	383	52	13-6		614		9-6		180	1	07	0-004		0.11	387	14 .	1	2	279	
1908	277,257	17:3	139	1.3	145	0.52							111	14	12-6		335	36	10-7	0:15	394		25		147	1	12			0.40	344	12	11	3	264	
1909	281,584	15-9	122	12	50	0.18					6		74	19	25-7		456	-	12:7		574		21		182	2	2.2		87	0-30	331	12	1	2	285	
1910	285,951	14-9	123	1/2	103	0.36	3	1	331	0.000	10		63	a	14:3	0.03	443	40	9.0	0-14	301	12	-21	000	104		-	0.01	1	1	-		1		1	



## APPENDIX B.



CITY AND COUNTY OF NEWCASTLE-UPON-TYNE.

# REPORT

OF THE

## SANITARY COMMITTEE

RELATIVE TO THE RECENT

# TUBERCULOSIS EXHIBITION

HELD UNDER THE AUSPICES OF THE NEWCASTLE CORPORATION.

July, 25th-August 6th, 1910.

Mewcastle=upon=Tyne:

EASEY & BEST, PRINTERS, 142, PILGRIM STREET.

## REPORT OF THE SANITARY COMMITTEE

RELATIVE TO THE RECENT

#### TUBERCULOSIS EXHIBITION

HELD UNDER THE AUSPICES OF THE

## NEWCASTLE CORPORATION.

The Council, on 11th July, 1910, approved of the recommendation of the Sanitary Committee that arrangements be made for a visit to Newcastle of the Tuberculosis Exhibition of the National Association for the Prevention of Consumption, etc., and authorised the expenditure of the sum of, say, £100 to cover the cost of carrying out the proposal. The Sanitary Committee now beg to submit the following report on the subject:—

On the invitation of the Sanitary Committee, the National Association for the Prevention of Consumption sent its Exhibition to Newcastle for the fortnight July 25th to August 6th, 1910, inclusive. Accommodation was obtained in the large hall of the Co-operative Society, Darn Crook, where every assistance and facility was found, through the courtesy and sympathy of the Secretary of the Society (Mr. Howatt), the manager of the retail department (Mr. Thwaites), and the Café Manager (Mr. Urwin.) Besides the special clerk (Mr. A. Austin), the following extra assistants were engaged:—one commissionaire and two handymen. Carpenters, &c., were supplied by the Co-operative Society to help in the arrangement and erection of the exhibits, and the dismantling afterwards.

The National Society's Exhibition was accompanied by a caretaker (Mr. Mycock), while the Edinburgh and Barrasford exhibits were each looked after throughout the fortnight by a nurse from the respective sanatoria represented, viz.: Sister Djurberg, from Edinburgh, and Nurse Widowfield, from Barrasford.

Councillor George Smith was good enough to superintend personally the house to house distribution of illustrated advertisement handbills, some 40,000 of which were sent out to the poorer districts of the city. About 20,000 others were given away in the exhibition. By the courtesy of the chairman of the

Tramways Committee, advertisement bills were placed in the cars on certain routes.

The opening ceremony, at 2 p.m., on the 25th July, was performed by the Lord Mayor, Sir Henry W. Newton presiding. On the platform were also Lord Armstrong (Chairman of the Barrasford Sanatorium Committee), Sir George Hare Philipson (president of the College of Medicine and chairman of the Royal Victoria Infirmary Committee), Mr. Howatt, (secretary, Co-operative Society), Mr. D. Mahon (secretary, Friendly Societies), and a number of other gentlemen representative of various local public interests.

The arrangement of the exhibits was as follows: On the entrance landing was the pathological section, consisting of wax models, bones, specimens of tuberculous meat, photographs, charts, diagrams, &c., all from local sources. In the large hall was the National Association's exhibit, together with those from Barrasford and Stannington. Lastly, in an adjoining room, was the children's section, an excellent and unique exhibit, almost entirely the personal work of Miss Renaud, Superintendent of Midwives, who was in charge of it throughout.

The evening lectures, which proved highly popular, were to have been held in a room adjoining the children's section. This, however, was found from the outset to be quite inadequate, and by the kindness of the Café Manager, a change was made to the large café room on the floor below, for the use of which no extra charge was made. This was not available on the Saturday evenings, and accordingly the hall of the Socialist Institute, across the street, was taken on those two nights. In spite of the increased accommodation thus provided, it was found necessary to repeat the lectures twice, and usually thrice, each evening. The mornings were almost entirely occupied with the visits of the older children from the elementary schools; 2,233 of these were conducted round, everything being carefully explained to them. The Inspector of the Board of Education (London) visited the Exhibition one morning, and expressed himself well pleased with the arrangements made. It was quite a usual proceeding for children to bring their parents later on, and to describe to them all they had themselves learnt.

The total attendance during the fortnight was 25,816 persons including the scholars, which gives a daily average of over 2,000

visitors. 4,042 persons attended the ten lectures, or an average of 400 each night, many besides having to be turned away. A most gratifying feature of the Exhibition was the fact that the visitors were almost entirely drawn from the working classes, many of the very poorest being in evidence.

At every point the great necessity for fresh air and cleanliness was strongly emphasised, and signs are not wanting from many sources that the lessons are already having good practical effect.

Another most valuable result of the Sanitary Committee's venture is the close co-operation that took place between their officers and the representatives of many of the most important sociological institutions of the city—Friendly Societies, Trade Unions, various Charities, Guild of Help, religious bodies, the Education Committee, and so forth. Nothing but good can accrue from the keen interest displayed by all of these, many of whom intend to carry on the crusade thus begun. The local press also were sympathetic, and did much to advertise the Exhibition.

Appended are details of the expenditure involved. It was estimated that £100 would cover the cost, but owing partly to the inconvenience caused by the railway strike, partly to the extreme shortness of the notice (barely two weeks), and largely to the fact that the Exhibition was kept open for a fortnight instead of for a week as originally intended, the bill of costs has proved larger than was anticipated. It is hoped, however, that the committee will take the view that the cost was more than justified by the result.

In conclusion, the committee draw attention to their indebtedness to those who so heartily co-operated with them:—The Right Honourable the Lord Mayor, the National Association for the Prevention of Consumption, the College of Medicine, the Lecturers, the Barrasford and Stannington Sanatoria Committees, Dr. Philip, of Edinburgh (who sent a Hospital Sister free of charge), the Co-operative Society, the various local Associations, &c., and the Press. Of the actual officers to whom in no small degree the success of the committee's venture is due, special mention must be made of Miss Renaud and Mr. A. Austin, each of whom spent over 160 hours in the Exhibition during the fortnight it was open to the public.

The following is a statement of the expenses incurred in connection with the Exhibition:—

	£	S.	d.
Removal and Carriage of Exhibition	. 22	0	0
Newcastle Co-operative Society (Hire of Hall)	. 5	0	0
Socialist Institute (Hire of Hall)	. 2	0	0
Cleaning of Hall during the Exhibition	. 2	5	6
Insurance	. 0	8	6
Clerk (four weeks)	. 10	10	0
Commissionaire's Services	. 5	10	6
Checkers' Wages	. 4	9	0
Newcastle Co-operative Society (Services of Staff)	. 3	10	0
,, ,, (Luncheons and Teas)		11	6
Mr. S. Bates's Expenses (Lectures, &c.)	-	0	0
Sister Djurberg, Edinburgh (Train Fare, &c.)		9	11
Miss Renaud (Special Allowance)	-	0	0
Local Papers (Advertising)	10		2
National Health Society (Leaflets)	-	5	0
The Proprietors of the Medical Officer (Handbills)	1-	8	0
Messrs. Easey & Best (Printing)		0	6
Morris, The Writer, Ltd. (Posters, Charts, &c.)	10	4	6
Messrs. Southwell & Co. (Loan of Cash Box Model)	0	2	0
John Watson (Lantern, &c.)		0	0
Mr. J. Mitchell (Photographs for Lantaux Clidas)		4	6
Distribution of Handbille		17	0
Petty Cash (Postages &c.)		14	
retty class (rostages, &c.)	,	14	8
	£204	17	3
	2,204	1/	3

The expenditure authorised by the Council on 11th July, 1910, has, therefore, been exceeded. This is chiefly accounted for by the fact that the Exhibition extended over a period of a fortnight instead of one week as originally intended, but having regard to the nature of the exhibition, and the great interest taken in it by vast numbers of the people of Newcastle for whom it was more particularly intended, and to the immense benefits which may ensue from the diffusion of information on the important subject of the prevention of consumption, the committee anticipate that the Council will readily confirm the holding of the Exhibition for the longer period of a fortnight; and they therefore recommend the Council to sanction the additional expenditure incurred.

Dated this 29th day of August, 1910.

HENRY W. NEWTON, Chairman.

Presented to the Council 7th September, 1910. Confirmed 7th December, 1910.



## APPENDIX C.



NEWCASTLE-UPON-TYNE AND NORTHUMBERLAND SANATORIUM,
BARRASFORD, NORTH TYNE.

# MEDICAL REPORTS

ON

## NEWCASTLE CORPORATION CASES

DURING THE HALF-YEAR ENDED 15th JULY, 1910,

AND

HALF-YEAR ENDED 15TH JANUARY, 1911.

Newcastle-upon-Tyne :

EASEY & BEST, PRINTERS, 142, PILGRIM STREET.

# BARRASFORD SANATORIUM.

MEDICAL REPORT ON NEWCASTLE CORPORATION CASES UNDER TREATMENT AT DATE OF LAST REPORT (26TH NOVEMBER, 1909), SINCE DISCHARGED.

Progress during Treatment and Remarks.	Exceptionally good progress.	Much improvement.	Vast improvement.	Much improved. Visited Sanatorium this summer; at work, and keeps	very fairly well. Great improvement.	Much improved.		Harrogate. Has fairly recently returned thence to duty.  Great improvement. Visited Sanatorium end of June. Reported	Considerable improvement.	Improved, but too short a stay; left for business reasons.
Gain in Weight.	29 lbs.		:	:	:	:		2		:
Ga We	29	=	39	16	17	27	30	00	=	26
Days under Treatment to Date of this Report.	144	141	133	118	122	119	122	123	119	54
charge.	1909	1910	:	:	:	:	:	:	:	:
Date of Dis	31 Dec., 1909	1 Jan., 1910	1 ,,	7	1 "	: 00	20 ,,	7 Feb.,	5 Mar.,	6 Jan.,
nission.	6061	:	:	:	:	:	:	:	:	:
Date of Admission. Date of Discharge.	9 Aug., 1909	13 ,,	21 ,,	11 Sept.,	11	11	20	7 Oct.,	6 Nov.	13 ,,
Address.	Str	Newcastle Vine Lane, Newcastle	Joseph Street, Newcastle	Westgate Road, Newcastle	Janet Street, Newcastle	Rosedale Terrace,	We	Fairless Street, Newcastle	На	Sycamore Street, Newcastle
tials.	-	-:	:	:	:	:	:	-	::	:
Patient's Initials.	J. F. G.	N. M	J. McK.	J. J. Y.	Е. К	G. D	F. G	M. N	Miss M. R.	J. S
No.										

MEDICAL REPORTS ON NEWCASTLE CORPORATION CASES ADMITTED DURING THE HALF-YEAR ENDING 15TH JULY, 1910.

reatment, ks.		nent.	nent.	and impr	tuberculous meningitis There was slight initial	erly to resp	Since dead.	t in lung	Much improved.	nent.	d. Laryn	in lung co	Since discharge	on light rium.
Progress under Treatment, and Remarks.	Greatly improved.	Considerable improvement.	Considerable improvement.	Good; gained weight, and improved	much. Developed tuberculor and died. There wa	improvement. Sent out as failing utterly to respond	to treatment. Since dead. Not much lung improvement.	Not much improvement in lung con-	dition. Laryngeal case. Mucl	Considerable improvement.	A good deal improved. Laryngeal	case. No real improvement in lung condi-	tion. Greatly improved. Si	has been employed on light out- door work at Sanatorium.
in ht.	lbs.	:				0,					٠.		Ibs. G	
Gain in Weight.	25 1	24	18	16	1	1	7 lbs.	19	=	16	14	16	15 IE	
Days under Treatment to Date of this Report.	119	119	112	127	38	28	119	88	119	120	120	96	120	
scharge.	1910			:	:	:	2	:	:	2		:	1910	
Date of Discharge.	7 May, 1910	7 ,,	.:.	19 ,,	20 Feb.,	12 ,,	18 May.	21 April,	21 May,	2 June,	1,	12 May,	10 June, 1910	
nission,	1910	:	:	:	:	:					;	:	:	
Date of Admission.	8 Jan., 1910	00	10 ,,	12 ,,	13 ,,	91	61	22 ,,	22 ,,	2 Feb.,	20		10 ,,	
Address.	Fisher Street, Walker	Me	Scotswood Road,	Ade	Tra	Meldon Street,	Tar	Joan Street, Newcastle	Villa Place, Newcastle	Ivy Street, Newcastle	Maria Street, Newcastle	Stephen Street,	Welbeck Road, Walker	
itials.	:	:	.:	N	:	:	:	:	:	:	.i.	:	:	
Patient's Initials.	A. B	J. T	Mrs. E. R.	Miss H. W.	G. G	Miss I. T.	W. Y	M. M	L. B	J. H. J.	Miss M. E. I.	T. H	W. M. M.	
No.	1	61	60	4	10	9	7	8	6	10	==	12	13	

MEDICAL REPORTS ON NEWCASTLE CORPORATION CASES ADMITTED DURING THE HALF-YEAR ENDING 15TH JULY, 1910.—Continued.

F													
Progress under Treatment, and Remarks.	No gain in weight, but a good weight on admission, Condition station-	ary. Expectation of improvement dis-	Much improvement. On leaving given light outdoor employment at the Sanatorium Left and of	ast to go to Australia.	Not much improvement.	But slight real improvement.	Considerable improvement. Case	ent.	Some improvement.	Much improvement.	Improving.	Some improvement.	
Gain in Weight.	ı	1	22 lbs.	17	" 9	23	10 ,,,	91	26 ,,	29 ,,	12	13 ,,	
Days under Treatment to Date of this Report.	119	119	120 2	120	92	122	90 1	93	122 2	91 2	97 1	94 1	
Date of Discharge.	18 June, 1910	81	23 ,, ,, .	23 .,		5 July, "	10 June, ,,	13 ,, ,,	15 July, "	18 June, ,,	(still in)	12 July, "	
Date of Admission.	19 Feb., 1910	., ., 61	23	23 ., ,,	5 Mar., ,,		12 ., ,,	12	15 ., .,	61	9 Apr., "	6	
Address.	Miss E. D Stone Street, Newcastle	Portland Terrace,	Spencer Street, Newcastle	Gloucester Road,	Byker Bank, Newcastle	Beaumont Street,	Atholl Street, Newcastle	Monday Street,		ce,	Gallowgate, Newcastle	Clayton Park Square, Newcastle	
Patient's Initials.	Miss E. D	Miss N. H. S.	16 W. H	17 T. P	Miss F. E. G.	Miss I. S	C. G	Miss N. R	Miss C. K	R. G	Е. J	G. S	
No.	7	15	16	17	18	19	20	21	22	23	24	22	

MEDICAL REPORTS ON NEWCASTLE CORPORATION CASES ADMITTED DURING THE HALF-YEAR ENDING 15TH JULY, 1910.—Continued.

	I					-		-						
Progress under Treatment, and Remarks.	Some improvement.	Considerable improvement.	Not much real improvement.	Considerably improved,	No definite evidence of tuberculosis, Asthmatic condition not much im-	proved. Not much improvement, has slight	heart disease.  Much improved, but has heart dis-	C	to treatment. Since dead. Improved.	Not much improvement.	Some improvement.	Great improvement.	Left for domestic reasons. Since re-	
Gain in Weight.	lbs.		:	:		1	:	1	:	:	:		:	:
	15	16	15	21	00	10	14		12	01	00	7	6	4
Days under Treatment to Date of this Report.	16	16	83	76	31	69	67	58	53	52	48	48	30	48
Date of Admission. Date of Discharge.	9 July, 1910	14 ,, ,,	(still in)	(still in)	2 June, ,,	(still in)	(still in)	11 June, "	(still in)	(still in)	(still in)	(still in)	27 June, ,,	(still in)
dmission.	9 Apr., 1910	;	:	:		:	:	:	:	:	:	:		:
te of A	Apr.	:	:	:	2 May,	:	:		2	2	2	2		:
Da		14	23	30		7	6	14	e 23	24	e 28	28	58	28
Address.	Miss M. B Harle Street, Newcastle	Alma Street, Newcastle	Hampstead Road,	Allb	Croft Stairs, City Road, Newcastle	George Street,	Cor	Cot	Wa	Malcolm Street, Newcastle	Dun	Eighth Avenue,	Cit	Back Tweed Street, Newcastle
tials.		:	:	:	:	1	:	:	:	:	:	L	:	:
rt's In	M. B	:	:	:	:	F. H	:	:	Т.	:	L. C.	J. I.	:	:
Patient's Initials.	Miss	A. P	J. B	T. S	J. D	Miss F. H.	J. M	J. W	W. A. I.	J. A	Miss L. C.	Mrs. J. I. L	R. H	E. P
No.	26	27	28	53	30	31	32	33	34	35	36	37	38	68

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MEDICAL REPORTS ON NEWCASTLE CORPORATION CASES ADMITTED DURING THE HALF-YEAR ENDING 15TH JULY, 1910.—Continued.

No.	No. Patient's Initials.	Address.	Date of Admission.	Date of Admission. Date of Discharge. Treatment to Date of this Report	Treatment to Date of this Report.	Gain in Weight.	Progress under Treatment, and Remarks.
40	Mrs. E. H	40 Mrs. E. H Larch Street. Newcastle	25 June, 1910	(still in)	20	8 lbs.	Not much improvement.
41	Miss C. M	41 Miss C. M Osborne Road,	30	(still in)	15	:	Great improvement.
45	42 R. M	Hawes Street, Newcastle	30 ,, ,,	(still in)	15	12 ,,	Some steady improvement.
43	Miss B. A	43 Miss B. A Holly Avenue,	9 July,	(still in)	9	1	Some improvement, despite no gain in weight.

SUMMARY OF CASES	Applications received	Passed and admitted as above 43 Rejected 18	Withdrawn 1	ı	
3,476				3,408	89
Total 3,476 3,620	69	3,551	143	-	:
Total Number of days for 20 Patients for half-year ending 15th July, 1910	Less Allowance for time elapsing between the discharge of one Patient and the admission of another, 3 days each, 43 Patients (less the first 20 admitted)		Deduct—Excess under 1908 Agreement as per previous state-		Excess forward to next half-year ending 15th January, 1911

ARMSTRONG, Chairman.
O. W. OGDEN, Hon. Secretary.

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BARRASFORD SANATORIUM.

MEDICAL REPORT ON NEWCASTLTLE CORPORATION CASES REMAINING UNDER TREATMENT AT DATE OF LAST REPORT (15TH JULY, 1910), SINCE DISCHARGED.

Progress under Treatment, and Remarks.	Good. Left capable of work. Fair. Had slight relapse shortly before discharge. Good. Able to do some work. Poor; case complicated with heart disease, however. Considerable improvement, but probably only temporary; severe heart disease. Improvement more in general condition than in that of lungs. Not much improvement, persistent tendency to hemorrhage. Considerable improvement, and able to resume her work (typewriting). Left much improved, and capable of house work. Did very well. Left to resume work as a cabman. Considerably improved. Did very well; capable of house works. Very good progress. Left to resume work as a labourer. Athroat case. Improvement definite but slow.
Gain in Weight.	13½ lbs. 13½ lbs. 13½ lbs. 123 15 15 19 19 11½ 11½ 9
Days under Treatment to Date of this Report.	22 36 22 22 22 25 70 40 75 75 75 106 106
Date of Discharge.	6 Aug., 1910 6 6 9 23 Sept., 24 Aug., 25 25 29 Oct., 17 Oct., 17 Oct., 17 Oct.,
Date of Admission.	9 April, 1910 23 30 9 24 28 28 29 June, 30 9 July,
Address.	Gallowgate, Newcastle Hampstead Road, Newcastle George Street, Newcastle Commercial Road, Newcastle Water Street, Newcastle Duns Terrace, Newcastle Eighth Avenue, Newcastle Back Tweed Street, Newcastle Larch Street, Newcastle Osborne Road, Newcastle Hawes Street, Newcastle Newcastle Hawes Street, Newcastle Newcastle Newcastle Hawes Street, Newcastle Newcastle Hawes Street, Newcastle Hawes Street, Newcastle Hawes Street, Newcastle
Patient's Initials.	E. J J. B J. S J. Miss F. H J. A Miss L. C Mrs. J. I. L E. P Miss C. M R. Miss C. M R. Miss B. A
No.	

MEDICAL REPORTS ON NEWCASTLE CORPORATION CASES ADMITTED FOR THE HALF-YEAR ENDING 15TH JANUARY, 1911.

Progress under Treatment, and Remarks.	A severe case—only patched up.	Did well while here, but being hypo- chondriacal and despondent left	Did pretty well, but left before her time owing to illness of relative.	Did not make real progress.	Improvement great as regards gene- ral condition, but less as regards	condition or lungs.  Did well while here.	Progress of disease only retarded.	Did very well indeed. (Since em-	Disease still somewhat active.	Throat case. General condition much better but throat worse. Left to	General condition greatly improved.	Did very well. Left before extension had expired owing to illness of	children.
Gain in Weight.	15 lbs.	÷	6	12	17 ,,	41	91	16 ,,	87	26 ,,	14	11	
Days under Treatment to Date of this Report.	96	49	64	96	92	16	16	92	96	91	16	1112	
Date of Discharge.	20 Oct., 1910	3 Sept., ,,	18 ,, ,,	20 Oct., "	27	12 Nov., "	12 ,, ,,	16 ,, ,,	24	10 Dec., 1910	10 ,, ,,	7 Jan., 1911	
Date of Admission.	16 July, 1910	91	16 ,, ,,	., ", 91	27 ' ".	13 Aug., "	13 ,,	., ., 91	20	10 Sept., 1910	01	17	
Address.	Enfield Road, Newcastle	Herbert Street, Newcastle	Maughan Street,	Alexander Street,	Raby Street, Newcastle	Tulloch Street,	City Road, Newcastle	Ellison Place, Newcastle	Monday Street, Newcastle	Robin Hood Yard, City Road, Newcastle	Sunderland Street,	Bolingbroke Street, Newcastle	
Patient's Initials.	44 W. B	45 S. S	46 Mrs. M. F	47 Mrs. F. H	48 Miss H. B	49 Mrs. E. A. E.	R. H	Miss L. C	J. H	J. D	Л. Л. Н	Mrs. L. F	
No.	4	45	46	47	48	49	20	51	52	. 23	54	22	

MEDICAL REPORTS ON NEWCASTLE CORPORATION CASES ADMITTED FOR THE HALF-YEAR ENDING 15TH JANUARY, 1911.—Continued.

Progress under Treatment, and Remarks.	Good improvement, but still liable to	slight attacks of dry pleurisy. Did pretty well. Left to resume	work. Made no response to treatment—	worse.  Is doing well, but there is a recent history of tuberculous disease of	spine. Is now doing well.	Did pretty well, but left soon to nurse	invalid husband.  Is now doing well.	Doing very well.	Doing well.	Improved at first, but not just lately.	Doing very well.	Doing pretty well.	Doing very well.	Doing fairly well.
Gain in Weight.	16 lbs.	7	not	weighed 14 lbs.	6	6	14	18 ,,	18	; -101	25	10	29 ,,	22
Days under Treatment to Date of this Report.	120	84	93	106	66	41	85	85	80	80	78	92	74	62
Date of Discharge.	(still in)	10 Dec., 1910	2 Jan., 1911	(still in)	(still in)	18 Nov., 1910	(still in)	(still in)	(still in)	(still in)	(still in)	(still in)	(still in)	(still in)
Date of Admission. Date of Discharge.	17 Sept., 1910	11	1 Oct., ,,		: : : :		22 ,, ,,	22	27	27 ,, ,,	65	31 ,,	2 Nov., ,,	14
Address.	Miss A. H Copeland Terrace,	Blenheim Street, Newcastle	Maughan Street,	Simpson Street, Newcastle	Ingham Place, Newcastle	Cannon Street,	ewcastle	Beaconsfield Street,	Wingrove Gardens, Newcastle	Kensington Terrace, Newcastle	Malcolm Street, Newcastle	Back Rendel Street, Newcastle	et,	eet,
Patient's Initials.	Miss A. H	M. McC	Mrs. E. H. J.	Miss F. M. S.	S. R	Mrs. J. R	62 J. T. M	R. McR	Mrs. A P	Miss E. B	66 H. D. E	Mrs. J. A	68 Mrs. L. M. H.	69 F. McC
No.	99	22	28	99	09	19	62	63	64	. 65	99	67	8	69

MEDICAL REPORTS ON NEWCASTLE CORPORATION CASES ADMITTED FOR THE HALF-YEAR ENDING 15TH JANUARY, 1911.—Continued.

Progress under Treatment, and Remarks.	Doing well.  Disease very obstinate in this case. Prolonged rest seems necessary. Doing fairly well.	Not doing well—persistent pyrexia.  Doing very well.	SUMMARY OF CASES SUBMITTED TO MEDICAL BOARD.  Applications received 57 Passed and admitted as above 31 Rejected 24 Withdrawn 24 Withdrawn 257
Gain in Weight.	18 lbs. 23 17	: :	st Applica Paa Rej Wi
Days under Treatment to Date of this Report.	55 57 55	43	3,345
Date of Discharge.	(still in) (still in)	(still in)	Total 3.680  93  3,587  68
Date of Admission. Date of Discharge.	19 Nov., 1910 19 ". ". 21 ". ".	3 Dec., ,, 5	ilf-year ending ie discharge of ., 3 days each,
Address.	Mowbray Street, Newcastle Hamilton Street, Newcastle St. Ann's Row, Newcastle	Bolam Street, Newcastle Rosedale Street, Newcastle	Total number of days for 20 Patients for half-year ending 15th January, 1911  Less Allowance for time elapsing between the discharge of one Patient and the admission of another, 3 days each, 31 Patients  Deduct Excess brought forward from 15th July, 1910  Number of days for which treatment has not been received
Patient's Initials.	W. F W. B J. E. H	R. D Miss M. H	number of days for 2 15th January, 1911 ss Allowance for time els one Patient and the adi 31 Patients duct Excess brought forw
No.	70 71 72	73	Total Les Dec

14th February, 1911.

O. W. OGDEN, Hon. Secretary.

