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CITY AND COUNTY OF NEWGASTLE-UPON-TYNE.

ANNUAL REPORT

OF THE

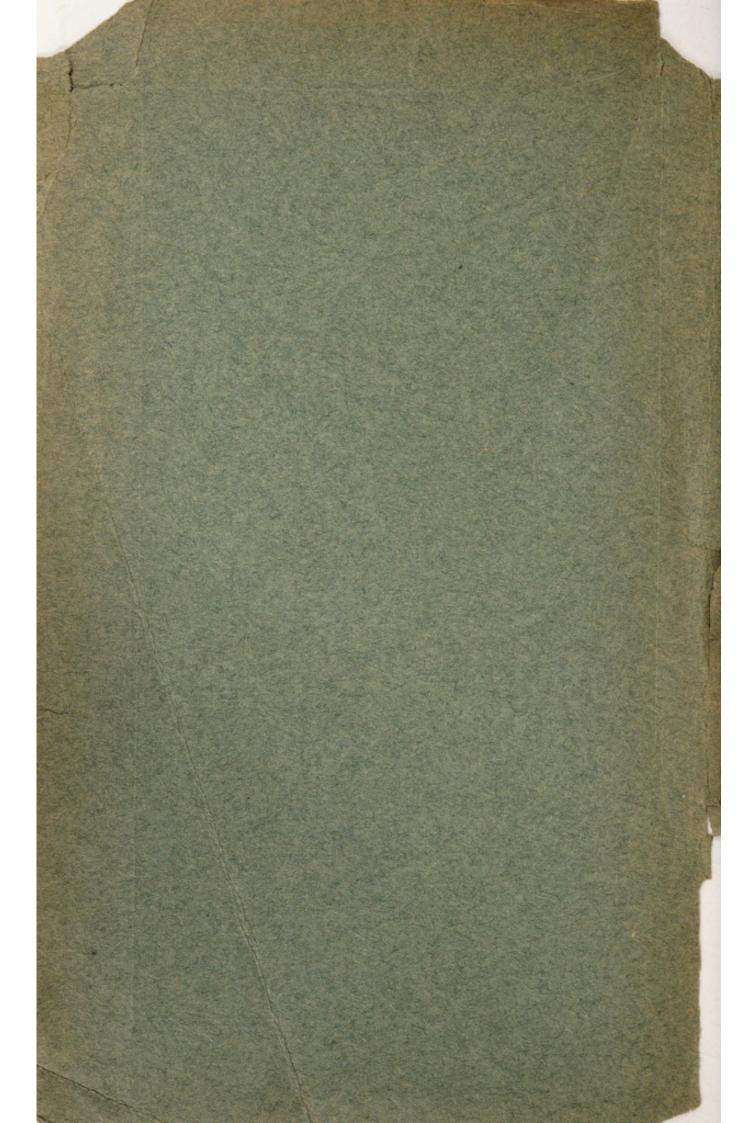
MEDICAL OFFICER OF HEALTH

ON THE

Sanitary Condition of the City

DURING THE YEAR

1912.



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To Alderman Sir HENRY W. NEWTON, J.P., L.F.P.S., Chairman of the Sanitary Committee of the Corporation of Newcastleupon-Tyne.

SIR,

Herewith we beg to submit to you our joint Report upon the health of the City during the year 1912.

We are glad to be able to state that the mortality figures continue to indicate a steady improvement in the physical well-being of the community, and in fact are evidence of a general healthiness previously unsurpassed. For a concise detailed description of this progress we would refer you to the large table on page 22A.

The estimated **Population** of the City at the middle of the year was 269,193.

The number of **Marriages** in the City during the year was 2,335.

The **Birth Rate**, while still unduly low, is slightly higher than in the previous year, being 26.7 per 1,000 population as compared with 26.5 in 1911.

The **Death Rate** from all causes is 14.3 per 1,000 population—the lowest yet recorded—as compared with 16.4 in 1911.

The **Infantile Mortality Rate** is equivalent to 101 deaths of infants under one year of age per 1,000 births, which is no less than 20 per cent. below the previous lowest. The lack of sunshine and consequent low temperatures of the past summer and autumn materially contributed to this excellent record by inhibiting bacterial and fly life, and so preventing that excess of diarrheal disease which is unfortunately the usual concomitant of a warm summer.

In no section of preventive medicine have the efforts of an enlightened Sanitary Authority received greater reward than in this, for during the short period of the present century, which represents the duration of the special educational campaign against the influences that adversely affect child life, the death toll among the babies has been reduced by practically one half.

Much good undoubtedly accrues from the personal efforts of the Superintendent of Midwives and the Health Visitors. But in furtherance of these it has always been the policy of the Medical Officer of Health to encourage co-operation between the Health Department and all local agencies, charitable or otherwise, which are in any way interested in work among women and children, and accordingly every opportunity is taken of getting into touch with the mothers' meetings of the various religious bodies, girls' clubs, district nurses, workers of the Charity Organisation Society, Guild of Help, Royal Society for the Prevention of Cruelty to Children, Board of Guardians, Royal Victoria Infirmary, Children's Hospital, Poor Children's Holiday Association, and so forth. Special credit is due to the Mothers' and Babies' Welcome Society for the excellent work it is

doing through its two branches in Wharncliffe Street and Norfolk Road, where cheap dinners are provided for poor mothers during their pregnant and nursing periods and where they are taught sewing, knitting, and simple cookery, and at the bi-weekly infant weighing receive instructions in the feeding and care of their babies. This Society originated five years ago as the result of the efforts of the Superintendent of Midwives, who acts as honorary secretary; funds are provided by voluntary subscription, and two visiting nurses are in its employ. It is an invaluable auxiliary to the Health Department.

The midwives, as the result of careful tuition, are able to render great assistance also by teaching the mothers whom they attend the principles of infant care in which they have themselves been thoroughly trained. They are encouraged to regard themselves in this respect as unofficial assistants to the Health Department, and there has never been any reason to regret this attitude towards them.

The influence of housing upon the Infantile Death Rate is shown in a statement on page 41. This is to the effect that while the Infantile Mortality for all babies in the City during the five years 1908-1912, was equivalent to 125 deaths per 1,000 births, that for those infants—the poorest and least favourably circumstanced—that came under the care of the Health Visitors was only 110. Of the latter, it was found that the death rate for those living in single room tenements was 128, for

those in two rooms 101, those in three rooms 111, and those in more than three rooms 96, per 1,000 births.

The Infectious Diseases show a somewhat greater prevalence as compared with recent years. The type in all, however, was mild, and the case-mortality Exclusive of Tuberculosis, 1,977 notifications were received from medical practitioners, as compared with 1,528 in the previous year. Smallpox and **Typhus** made no appearance. Since the passing of the Vaccination Act 1907, the number of infants exempted has steadily increased, though not, fortunately, to the extent seen in neighbouring districts. During the past year exemption certificates were granted in 14.6 per cent. of babies registered, thus considerably increasing the susceptible portion of the community. The opponents of vaccination have recently had an exceptional opportunity of stating their case before the Manx Legislature, which by a very large majority rejected a bill providing for exemption, and a perusal of the evidence in the blue book since issued gives rise to the wish that a similar opportunity could be given to the anti-vaccinators at Westminster with a view to the repeal of the English Act of 1907. Scarlet Fever was unusually common, and from the mildness of its symptoms is becoming increasingly difficult to diagnose; many cases must be missed altogether, and it is these probably that are chiefly causative of its spread. Diphtheria, unlike the other fevers, which on the whole are diminishing in number, continues to become commoner each year. Improved methods of diagnosis account for the recognition of large numbers of slightly affected cases previously undetectable, but even allowing for this, the disease is more prevalent than ever before. Fortunately the fatality is little more than one sixth of what it was at one time. As in all periods of prevalence of infectious diseases of mild type, a considerable proportion of patients suffer from two or more affections concurrently, no less than 11'4 per cent. of all the cases at the City Hospital being found to be so affected on admission. An outbreak of **Measles** occurred in the latter months of the year, involving many deaths; the epidemic was the most severe since 1906. This disease is the one for which no really effective means of control has yet been In Newcastle the measures adopted are discovered. those recommended by the Medical Officers of the Local Government Board and Board of Education, these being the best available. As mentioned above, Infantile Diarrhœa was practically absent owing to the cold weather experienced throughout the summer and autumn. Enteric Fever, while showing an increase upon the previous year of four cases, continues to be of low incidence. Steady progress is being made with the conversion of dry closets to the water-carriage system. It is noteworthy that during 1912 enteric fever occurred just three times as frequently in houses having dry closets as in those with water closets. Epidemic Cerebro-Spinal Meningitis was reported in three cases only, and Acute Poliomyelitis, which became compulsorily notifiable by Local Order on July 4th, in thirty, of whom two died. Sixteen cases of **Food Poisoning** occurred during March, all believed to be due to consumption of various articles from one pork shop. No proof could be obtained of this however. No deaths occurred.

Hospitals for Infectious Diseases.—
1,542 patients, representing 86.4 per cent. of the notified cases of the diseases admissible, were isolated at the City Hospital, Walker Gate. The case mortality was 5.3 per cent.

This being the largest number of patients ever admitted in one year, the accommodation was strained to its utmost, and proved inadequate. As in former years, it was found necessary to relieve the over-full Scarlet Fever pavilions by transferring some 528 uncomplicated mild convalescents to the Smallpox Hospital on the Town Moor, the wards of which were in occupation for this purpose from January to June, and from October to the end of the year.

Owing to the great difficulty experienced in obtaining nurses, the staff was short-handed almost throughout the year. A reconsideration of nurses' salaries has since occurred, and this has to some extent at least met the inconvenience arising from an undoubted shortage in the supply of nurses available.

Tuberculosis of the Lung became compulsorily notifiable in all classes of the community in Newcastle on Jan. 1st, 1912, under the Newcastle-upon-Tyne Corporation Act 1911. It had been estimated

that about 1,000 notifications would be received during the year, and the actual number proved to be 972.

To deal with these cases the Sanitary Committee had promoted a scheme for the establishment of a Tuberculosis Dispensary, with full staff consisting of Medical Officer, three Visiting Nurses, Inspector, Clerk, etc., in addition to the twenty beds maintained at Barrasford Sanatorium for poor citizens, and this scheme received the approval of the Council in March, 1912. The provision of Sanatorium Benefit under the National Insurance Act necessitated the reconsideration of the scheme, and permitted of its reconstruction as a joint arrangement between the Corporation and Insurance Committee upon a more complete and comprehensive basis. The general outline was agreed upon before the end of the year, but it was not found possible to get the Dispensary into operation before the following February, owing chiefly to the difficulty in obtaining premises. The Sanitary Committee have now decided to ask the consent of the Council to the erection of a hospital for the accommodation of sixty advanced cases of consumption, in addition to the provision under the joint scheme of the Dispensary, and sixty Sanatorium beds for adults and children in the early and curable stages of the disease. 68 patients were admitted to the Corporation beds at Barrasford Sanatorium during the year.

Disinfection.—The scheduling of Tuberculosis as an infectious disease has greatly increased the facili-

ties for disinfecting the houses, bedding and clothing of consumptives, and this has resulted in a considerable augmentation of the work of the staff. A special Inspector is now required for inspection and disinfection of premises where consumptives live, and a much greater quantity of material is taken to the disinfecting station at the City Hospital for steam treatment than previously, no less than 28,440 articles being so dealt with in 1912, as compared with 21,861 in 1911.

Special attention has been given to the question of the distribution of disinfectants from the Health Department; acting upon the report of the special "Lancet" Commission in 1909, only disinfectants of the highest proved efficacy are employed, and every precaution is taken to ensure that such as are given away are properly used.

Bovine Tuberculosis.—In the absence of the long-promised Government Milk and Dairies Bill, local powers for preventing the supply of tuberculous milk to the City continue to be inadequate. The Tuberculosis Order of 1913 has facilitated matters in regard to tuberculous cattle and carcases, but the hands of Sanitary Authorities are still tied when they attempt to touch the milk.

Of 106 samples of milk examined for the presence of the tubercle bacillus, 11 were found to contain the germ. In each case the salesman, the farmer, and the local medical officer of health were communicated with. In each instance the affected herd was examined by a veterinary surgeon, and any visibly affected animals excluded. In three herds the Tuberculin test was applied, and all reactors excluded. Until all suspects had been removed from the herd the entire milk supply from each affected farm to Newcastle (!) was entirely stopped. Between the exclusion of the suspects and the receipt of a clean bill from the bacteriologist, the milk was permitted to be sent to the City, on condition that it was carefully pasteurised before being retailed. But what becomes of the "excluded" cows?

Details of the above cases are appended in the Report.

Opinions of expert observers vary as to the proportion of infection which is bovine in origin. Prof. Delépine says that 22 per cent. of tuberculous persons at all ages suffer from the bovine form of the disease, and Mr. Stiles (Surgeon to the Children's Hospital, Edinburgh) declares that among children, 90 per cent. of the glandular, and 60 per cent. of the bone and joint infections are due to this type of bacillus also. Under these circumstances it is little short of a national disgrace that effective measures for protecting the community against this gravest of all the menaces to public health are so long delayed. Certain other cities have special local powers for self-protection, which owing to the alleged imminence of a national measure were refused to this City. The value of these "milk clauses" is amply shown by experience in Manchester, where in the 14 years since their operation there has been a

diminution of tuberculous milk samples to the extent of 66 per cent., together with a considerable reduction in the quantity of bacilli in the milk which is still infected. But—and here is the important point—there has been a coincident fall of nearly 50 per cent. in the mortality from Tuberculosis among children under five years of age, the period when the great majority of the infections are of the bovine type. It is noteworthy that in Newcastle a successful endeavour is being made by several of the large milk-retailing firms to obtain a supply entirely from tuberculin-tested herds, which milk, in spite of the large initial expense involved is being retailed at the ordinary price. Every credit is due to the managers of these firms, and the greatest possible encouragement should be accorded to them.

Food and Provisions.—Inspections under this head are carried out by the Veterinary Officer and his assistants, and by assistants of the Inspector of Nuisances who are specially detailed off for the purpose of taking samples for examination by the Public Analyst and the Bacteriologist.

The efficient performance of the first-named officer's duties is much hampered by the impossibility of anything like a thorough inspection of carcases in the 110 private slaughter houses scattered all over the city. The absence of a public abattoir is one of the most serious blots upon the health administration of the town, and it is not to the credit of home methods that imported meat is a safer commodity than that raised and killed in this

country. In the dairy industry also there is very much to learn from such countries as Holland and Denmark, which are far ahead of Great Britain, at least in matters of cleanliness.

Recent years have brought a steady increase of responsibility to the Veterinary Officer; his clerical work has become so great that it is encroaching seriously upon the time required for actual inspection. Further, the staff will require considerable augmentation if it is to cope in any way efficiently with the duties imposed by recent legislation.

It is satisfactory to note that as the result of unfavourable experience of the insurance of cows, the local Butchers' Association have now entirely deleted that class of animal from their scheme, the effect of which is that very few but young bullocks and heifers are now sold and killed in Newcastle, to the great improvement of the meat standard.

The number of Food Samples (931) taken by the Inspector of Nuisances for analysis shows a slight increase over the previous year, but only represents a proportion of 3.5 per 1,000 of population. Of the total number 7.4 per cent. proved not to be genuine, as compared with 9.4 per cent. in 1911.

Of the total milk samples taken, 8.6 per cent. were not genuine, as compared with 13.8 per cent. in the previous year.

3.5 per cent. of the milk, cream, butter, and mar-

garine samples contained boric acid preservatives, but only one in excessive quantity.

180 samples of milk were submitted to the Bacteriologist for examination for evidence of excremental pollution; 42 were reported as unsatisfactory, and immediate steps were taken to have the causes remedied.

The **Water Supply** continues to be of good quality, the chemical analysis being very satisfactory. 192 samples, from sources in all parts of the city, were examined bacteriologically for evidence of the presence of bacillus coli communis the original source of which is always animal or human. A very high standard is adopted for this purpose, and is of great value on account of its delicacy in showing the need for special precaution not indicated by the chemical analysis. 9 samples were returned as bad, and 43 as unsatisfactory. The Water Company are informed of each result and institute immediate inquiries as to possible sources of contamination. It is of interest to note that these lie most frequently in the fittings of the taps, etc., especially in the leather washers and collars.

Housing.—The work of inspection of dwelling houses has been carefully carried out by the Inspector of Nuisances and the District Inspectors. In pursuance of the recent policy of the Committee, special attention has been, devoted to the cellar dwellings, of which a large number have been entirely closed, or otherwise satisfactorily remedied so that no underground room shall be used for sleeping purposes. Altogether 102

houses, containing 135 separate holdings, have been dealt with. Of these 64 houses, containing 81 holdings, were cellars. Action in each instance has been taken under the Newcastle Improvement Act 1882, Sec. 32.

At the time when the cellar dwellings were first systematically reported upon in October 1908, the total number in the City was 374 houses, containing 488 holdings. 246 houses have since been dealt with, the worst being taken first, leaving 128 houses, containing 171 holdings, still to be considered by the Committee. We cannot too strongly express the importance which we attach to the thorough treatment of this subject. In a growing city like Newcastle there is a tendency for the formerly fashionable central parts of the town to be deserted for the suburbs, leaving many large houses, with basement kitchens, to be converted into tenements. It should be the special care of the Sanitary Committee to prevent the misuse of the basements of such houses, and a strict watch has to be maintained upon them.

The question of the provision of a housing scheme to meet requirements arising from the Sanitary Committee's action is receiving very earnest attention at the present time.

Disposal of Refuse. — Considerable progress has been made in the conversion of dry closets to the water carriage system, 611 having been effected during the year, and all of them under Section 36 of the Public Health Act, 1875. About six-sevenths of the conveniences

in the City are now water closets, whereas in 1905, after the incorporation of Walker and Benwell, their number amounted to about three-fourths of the total.

District Inspection continues to be efficiently performed, and nuisances dealt with.

The Rag Flock Act has brought about a much needed reform, and will undoubtedly lead to a steady decrease of disease. A dozen samples, of which half proved unsatisfactory, were examined.

Smoke Nuisance.—Each year the records published by the Meteorological Office show that Newcastle has a lower average daily amount of sunshine than any other district reported upon.

It is not gratifying that this city should have to yield place to many others notable for their murkiness, and probably the general cloudiness characteristic of the north is partly the cause. There is no doubt, however, that smoke and dust play an important part in obscuring the sunlight, and this cause at least is largely remediable.

Unfortunately, the law specifically exempts from interference on the score of smoke nuisance mines and works where the smelting of ores and minerals is carried on, and also domestic chimneys. These exemptions practically cover all the sources of smoke nuisance in Newcastle and the neighbouring districts, in regard to which there is no question that the City is more sinned against than sinning.

Undoubtedly manufacturers and coal owners could do much to check the nuisance, and much improvement could be effected in regard to domestic fires as well by proper construction of grates and chimneys, and by a wiser selection of fuel, anthracite or gas being substituted for soft bituminous coal.

Motor cars are also, nowadays, frequently responsible for polluting the atmosphere of the streets with thick clouds of foul smoke; this the police are unable to cope with, on account of the necessity for proving that the mechanism of the motor is at fault.

Smoke production is commercially uneconomical, as well as hygienically objectionable.

The late Alderman Baty.—Your reporters have with the most profound regret to record the death of the highly respected Vice-Chairman of the Sanitary Committee, Alderman John Armorer Baty, which took place on 20th January, 1913. The support always given by the late Alderman to sanitary progress in every direction renders his decease a serious loss to the City. His kindly consideration for, and friendship with, ourselves will ever be remembered with respect and affection.

Staff of the Health Department.— During the past year a change has taken place in the personnel of the staff.

One of us (Henry E. Armstrong) resigned his position as Medical Officer of Health on 25th December, after a service of almost forty years, and was succeeded by the other (Harold Kerr), his assistant for five and a half years, and deputy since July, 1911. It will be the earnest endeavour of your new chief officer to continue the work of his predecessor in a manner worthy of the confidence accorded him by your Committee and by the Council.

S. J. Clegg, M.B., Ch.B., D.P.H., was promoted from the position of Resident Medical Assistant at the City Hospital for Infectious Diseases, to that of Assistant Medical Officer of Health and Resident Medical Officer to the City Hospitals, and J. D. Ingram, M.B., Ch.B., D.P.H., has been since appointed in his place.

We have to record our acknowledgment of the excellent and loyal service rendered to the City by the respective staffs of the various divisions of the Department and Hospitals under our charge. Special mention should be made of those of the latter, who have experienced a year of exceptionally heavy strain.

We have the honour to be, Sir,

Your obedient servants,

HENRY E. ARMSTRONG, D.Hy.

HAROLD KERR, M.D., D.P.H.

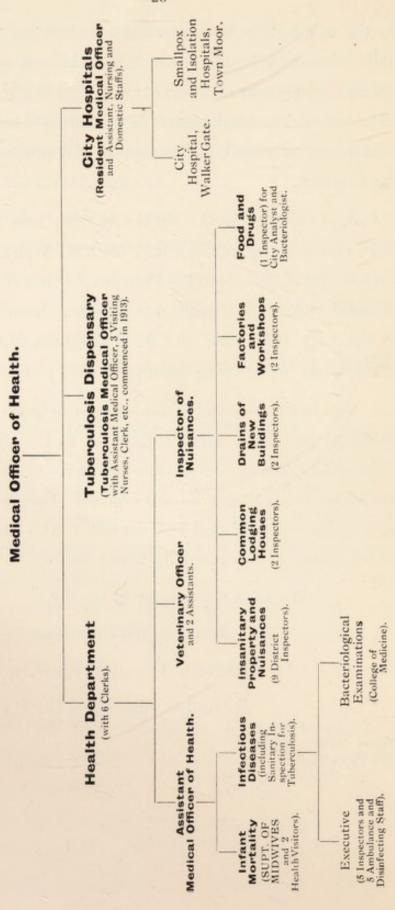
Health Department,

Town Hall,

Newcastle-upon-Tyne,

30th June, 1913.

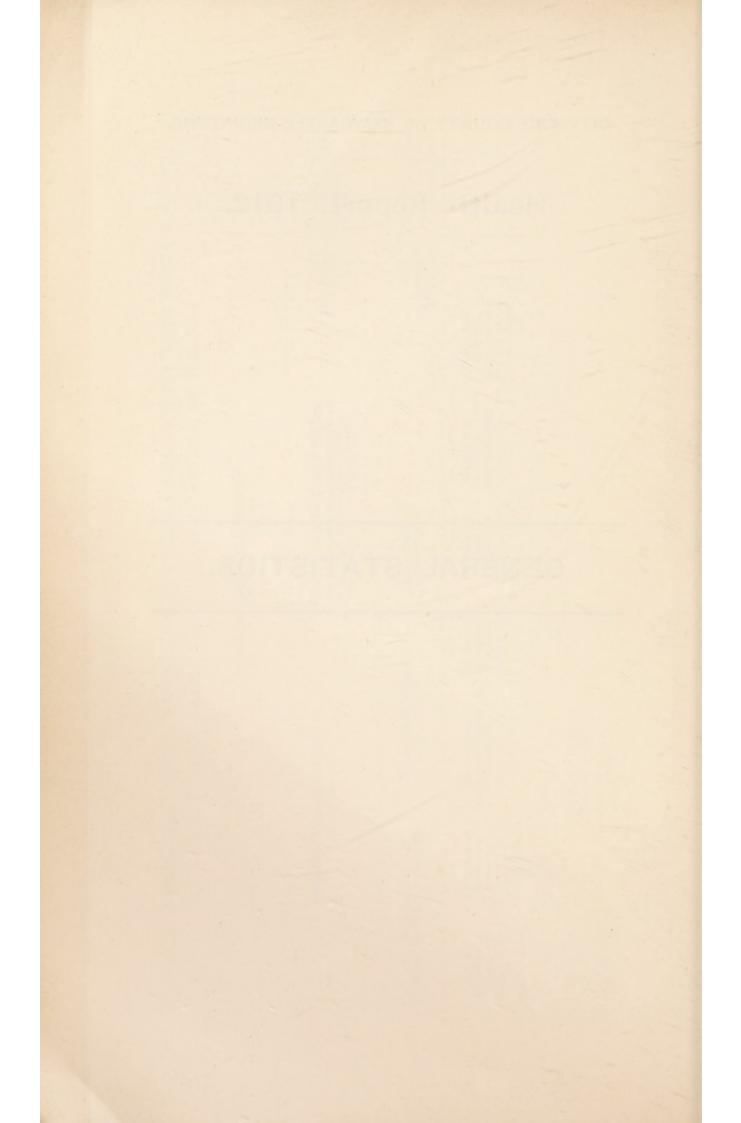
Table shewing the various Sections of the Sanitary Committee's work which is under THE DIRECT CHARGE OF THE MEDICAL OFFICER OF HEALTH.



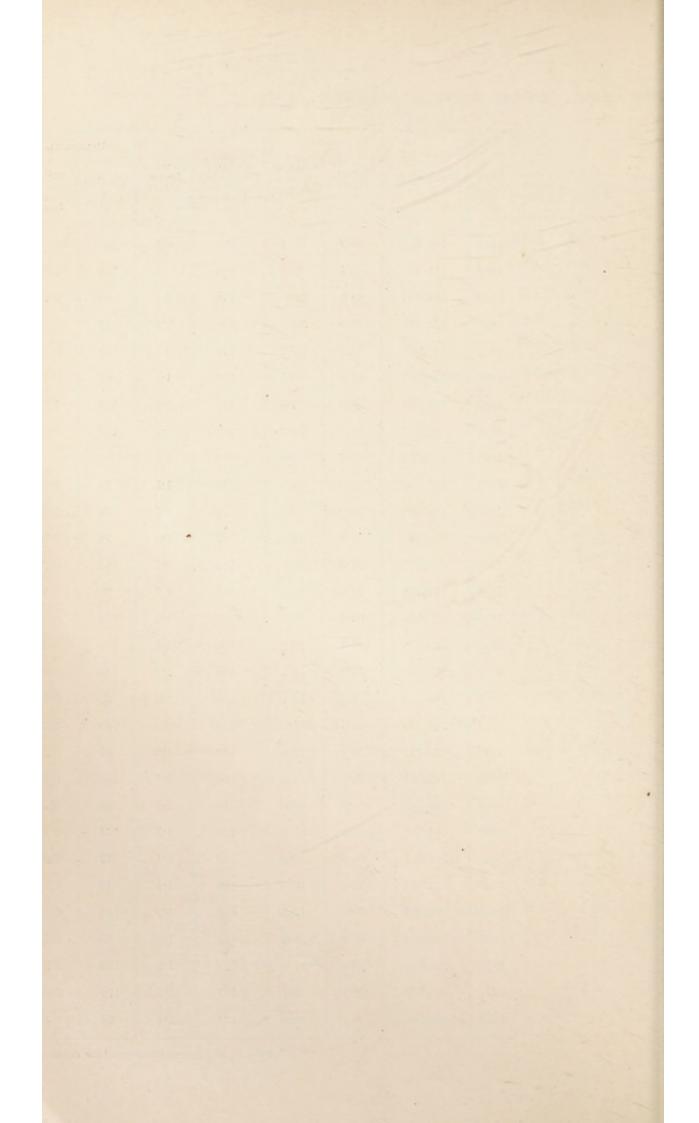
CITY AND COUNTY OF NEWCASTLE-UPON-TYNE.

Health Report, 1912.

GENERAL STATISTICS.



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MC	310,315	343	19.5	156	14	23	9-24	1		28-0	9-905			97	14	16-6	6-97	50.	61 26	9 05	9 96	29	3.0	0.15	3			***	47 1	35	26 01	10	1 2	101	0-55		400		21		204		10 -	- 3	o _	31	1
900	\$10,836	2014	2016	124	28	154	9.28	25				1 8	3.	141	28	12-2	013 1	170	29 16	9 (9)	A 100	23	33	912	×			444	300 1	00	33 61		1 2	123	0.62		347		1.0		190		44 -	- 1	ar	27	1
-	200,047	30.0	180	189	- 10	29	0.39	1		-				344	30	100	011 1	112	27 24	9 01	1 10	22	33	9 13		1.		0-63	94 0	47 1	49. 01	140		1100	0:93		350		10		342		99 .	- 1	m	- 00	1
99	360,001	310	201	196	21	992	0:23							213	40	32-6	033	104	49 31	2 01	16 100	24	22	0.13		3		444	140 0	-00	87 (0)	29 1		161	0.66		600		20		219		10	- 1	D4	3-0	1
100	TV2,225	31.6	10.4	168	19	32	0.30							176	98	19.7	494 1	104	34 21	9 01		25	24	#11				9-13	130 0	40	10	0 1		143	0.40		465		19		200		10	- 0	est	29	1
867	252,505	912	187	107	14	162	0.68							139	30	33-9	0-15 1	MT .	10 21	0 91	0 0	34	4.0	911				9-12	M 4	40	40 91	n :	1 9	141	0.00		329				213		10 .	- 3	in	22	- 11
808	223,621	214	20.9	100	22	166	948	117	3	17.6	9.61			307	44	31.0	0.30	**	27 10	2 01	2 66	26	30	9.12		1.3		9-92	125 0	56 1	45 01	W	1 -	104	0.28		432		10		100		22 .	- 0	F	29	1
MM	201,825	21.9	29/2	100	19	160	044					1		100	22	24.5	0 10	107	28 20		11 40	28	4.6	912		- 11		9-10	29 4	35		20		104	0.26		206				192		98 .	- 3	M	25	11
-	231,309	3014	19-1	160	12	43	9-55					2	1	29	10.	32.8	9 05 1		27 9	7 91	9	20	22	0.00	110	7	5-0	***	W7 0	W.	11 0	10	. 3	104	976		466				129		48 -	- 1	m _	21	19
MI II	201,715	321	312	177	21	249	1-99	26	1	40	9-005	13		26	10	11.0	0.00	146	26 2	7 1	1.34	42	3.0	9.11	100	-11	*1	0-03		30 0		8		214	0.00		428		29		1 con		** -		- 1	29	- 12
HIT	215,601	30.3	39.6	130	10	10	+24	33	1	27	0.005	1		32		100	944	133	21 11		1,38	90	40	927	129	14	94	0.11	137 4	40		15		945	0.90		387		14		100		** -		105	24	1
903	202.241	31.0	18.6	100	111	110	0.50	186		**	9.01			- 28		15-0	0.00	147	26 2		1,10		24	9.94	201		47	0.01	12 4	100	21 0	10	1 4	200	0.00		351		125		201		**		(FE -		1 11
100	201,002	30 1	18.0	130	14	99	944	311	17	41				30	1	23/3	9403	290	42 2	19 0	21 000	25	24	0.11	200	*8	39.	0.01		104	24 +	98		200	20 100		107				107		01 -		06 _	21	-19
ME I	204,711	323	124	130	19	1114	0.54	210	2	19	9 009			50	11	29.0	999 3	286	A2 11	11 0	20 20	111	24	D-05	211	3.0	3.8	0.40	20 1	188		111		394.	0.90		3617		19		311		** .		100	23	39
**	208,731	30.8	184	180	21	987	990							29	.13	10.0	4-05	304	66 1	11 0	26 76	17	2.9	9 00	162		27	20.0	101 4	100	200 10	22		101	9-83		601		14		200		0.7		- IN	- 21	i in
MET .	273,960	29.6	201	129	2-4	40	0-12	1.				3		- 66	11	30.0	000	MA .	All II	14 0	10 10	123		9.00	240	4	99.	0.01	1100 0	142 1		44.		778	0.90		300		11		248		96 .		ten _	21	19
m	207,087	30.2	120	130	1-8	141	0.02							311	14	124	0-10	100	26 1	7 0	15 26	110	24	9-04	147	1.0	0.7	* 001	20 1	111	01 0	47		279	1-01		397		11		199		97.		186	. 21	100
-	200,584	27-8	15.0	122	1-2	80	0.18							24	29	29.7	647	450	A4 1	12 01	H N	31	10	912	100	2	1.5	0.002	161	149	20 0	28. 1		294	0.04		314		10		179		**		BET	. 14	1 10
100	261,001	201	149	129	14	100	0.00		1 1	30-3	0.003	10		60		14.0	0-03	1413			18 82	12	21	9.04	182	1	20	091	87 1	130	24 4	98		200	10		551		13		190		00		m _	- 10	. 19
100	310,011	29.5	10-4	197	10	179	0.42							100	30	10-8	0.04	MG.	38	9 0		14	19	816	110		21	9-91			DE 0		6 2	263	0.05		350		10		107		00		500	- 11	111
NCZ .	per les	261	24.0	144	14	245	0.30							91	1.0	10.5	0.00	No.	23	16 0	12 1,16	0 34	28	0.10	His	7	42	0.00	266 (145	24 0	18	7 1	200	010	HTE	354	201.0	100		336		03		404		



GENERAL STATISTICS.

POPULATION.—As estimated by the Registrar General at the middle of the year 1912—**269,193.**

RETURN SHEWING THE POPULATION OF THE DIFFERENT PARISHES IN THE CITY, ACREAGE, POPULATION PER ACRE, &c., COMPILED FROM REGISTRAR GENERAL'S RETURNS (CENSUS, 1911).

Parish. (1911)		Population. (1911)	Gross Area.	Les Open	s for Spac		Nett Area.	Population Per Acre. (1911)
Fenham		1,049	Acres.	Acres. R	oods.	Potes 0	Acres.	2.47
11	•••		911	113	2	5	798	27.45
Heaton		21,912		7.7.7	1000	0.77		7.5
Jesmond		21,367	700	45	0	14	655	32.62
Walker		15,786	1,149	33	3	21	1,116	14.14
Byker		48,709	878	1	2	10	877	55.54
Elswick		58,352	784	52	1	2	732	79.71
St. Andrew's		16,522	1,650	1.111	1	14	539	30.65
St. John's		2,389	87	0	3	13	87	27.45
St. Nicholas'		1,190	44	0	1	36	44	27.04
Westgate		27,607	227	3	2	22	224	123.24
All Saints'		24,671	283	7	3	20	276	89.38
Benwell		27,049	1,305	20	1	S	1,285	21.05
TOTAL		266,603	8,452	1,400	3	15		

MARRIAGES .- 2,335 Marriages took place during the year.

BIRTHS.—7,194, equivalent to a rate of **26.7** per 1,000 population.

of 15.7 per 1,000, and, after deduction of the deaths of 529 non-citizens, and addition of 146 Newcastle residents who died elsewhere, to a corrected rate of 14.3 per 1,000 population.

11 deaths were uncertified.

pleting the first year of life, representing a rate of 101 deaths per 1,000 births.

"Chief Zymotic Diseases" [Smallpox, Measles, Scarlet Fever, Diphtheria, Whooping Cough, Fever (Typhus, Simple Continued and Enteric) and Diarrhœa] which is equivalent to 1.4 deaths per 1,000 population.

TUBERCULOSIS.—494 persons died from various forms of Tuberculosis, 358 being from Pulmonary, and 136 from Other Forms. The equivalent death rates are All Forms 1.8, Pulmonary 1.3, and Other Forms than Pulmonary 0.5, per 1,000 population.

For comparison of death rates with previous years see table page 221.

For particulars of deaths, as to causes, age, and Ward distribution, see following tables.

TABLE I. OF LOCAL GOVERNMENT BOARD.

Vital Statistics of Whole District during 1912 and previous Years.

			BIRTHS.		TOTAL I REGISTE THE DE	RED IN	TRANSF DEA		NETT	DEATHS THE DI	BELONGI STRICT.	NG TO
	Population estimated		Ne	tt.			of Non-	of Resi-		l Year Age.	At all	Ages.
YEAR.	to Middle of each Year.	Uncor- rected Number	Number	Rate.	Number	Rate.	dents regist- ered in the District	dents not reg- istered in the District	Number	Rate per1,000 Nett Births.	Number	Rate
1	2	3	4	5	6	7	8	9	10	11	12	13
1906	268,721	8,210			4,831	18.0						
1907	272,969	8,093			4,594	16.8						
1908	277,257	8,382			4,801	17:3						
1909	281,584	7,682			4,459	15.9						
1910	285,951	7,543			4,252	14.9						
1911	267,261	7,089	7,082	26.5	4,667	17.5	448	165	973	137	4,384	16.4
1912	269,193	7,219	7,194	26.7	4,221	15.7	529	146	727	101	3,838	14:3

Area of District in acres (exclusive of area covered by water) 8,452. Total population at all ages at census 1911, 266,603.

TABLE II. OF LOCAL GOVERNMENT BOARD.

(See under Infectious Diseases, page 47.)

TABLE IV. OF LOCAL GOVERNMENT BOARD.

(See under Infantile Mortality, page 34.)

TABLE III. OF THE LOCAL GOVERNMENT BOARD.

RETURN OF CORRECTED (OR NET) DEATHS FROM ALL CAUSES AT AGE PERIODS DURING THE 52 WEEKS ENDED 28TH DECEMBER, 1912.

DURING TI	1E 32	WEERS	ENDE	D 201H	DECE	MBER,	1912.			
					AGE P	ERIODS.				
CAUSE OF DEATH.	Under I year.	1 year and under 2.	2 years and under 5.	5 years and under 15.	15 years and under 25.	25 years and under 45.	45 years and under 65.	65 years and above.	Total	Deaths in Institu- tions in the City, of "Residents" or "Non-Residents."
Enteric Fever				5	1	5	4		15	14
Measles	26	72	50	16					164	10
Scarlet Fever	2	3	14	12	1	1	1		34	35
Whooping Cough Diphtheria ,	20	10	8	11		****			38	27
Croup				2					2	
Influenza	2			1		6	4	5	18	
Erysipelas	3				1		2	1	7	2
Other Epidemic Diseases			1				***	***	1	
Pyæmia, Septicæmia	2		2		1		3	***	8	4
Tetanus			***	***	***	***		***	***	1
Mycoses						***		***	***	1
Pulmonary Tuberculosis	2	4	1	21	84	144	87	6	349	80
Acute Phthisis		1	1	2	1	2	2		9	5
Acute Miliary Tuberculosis .		1		3	***	2		***	6	5
Tuberculous Meningitis Tuberculosis of Peritoneum and	13	10	12	20	4	3	1	***	63	17
Intestines	8	7	9	7	5	3	3		42	24
Tuberculosis of Spinal Column			1	1	3	2	1		8	3
Tuberculosis of Joints				***		2	1		3	3
Tuberculosis of Other Organs .			***	***	***	5	1	1	7	5
Disseminated Tuberculosis .			1	4		2	***		7	2
Total Tuberculosis .	23	23	25	58	97	165	96	7	494	
Rickets, Softening of Bones .	1	5	3			2			11	
Syphilis	5		1	1			1		8	3
Other Venereal Diseases	1								1	1
Cancer of the Buccal Cavity .				2		5	10 45	12 32	24 82	12 33
Cancer of the Peritoneum, In-						3	40	02	02	00
testines, and Rectum		1			1	5	31	22	60	37
Cancer of the Female Genital						-	0.1		0.5	
Organs			***		1	7 2	24	3 5	35 13	8
Cancer of the Breast							2	2	4	1
Cancer of other or unspecified		1111					100	100		
organs					2	3	19	13	37	25
Other Tumours (situation un-		1000					-		0	
defined)	1			2	2	7	2	1	14	4 2
Rheumatic Fever				-	-	1	-		17	-
Arthritis			1	2	1	3	7	8	22	8
Gout							2		2	111
Diabetes					2	8	7	5	22	14
Exophthalmic Goitre						2			2	3
Addison's Disease				2	1		2		5	6
Anæmia, Chlorosis					î	3	11	2	17	8
Other General Diseases	1			1	2				4	3
Alcoholism (acute or chronic) .						3	9		12	1
Encephalitis					2		1	1	4	4
Cerebro-Spinal Fever			1		1				2	i
						1		1		1

TABLE III. OF THE LOCAL GOVERNMENT BOARD.—CONTINUED.

RETURN OF CORRECTED (OR NET) DEATHS FROM ALL CAUSES AT AGE PERIODS DURING THE 52 WEEKS ENDED 28th DECEMBER, 1912.

					AGE P	ERIODS.				
-										40 5
CAUSE OF DEATH.	Under 1 year.	l year and under 2.	years and under 5.	5 years and under 15.	ars 25.	ars d 45,	d d.	years above.	NI.	Deaths in Institu- tions in the City, of "Residents" or
	er 1	nder nder	ears	nder	15 years and under 25.	25 years and under 45.	45 years and under 65.	5 ye	TOTAL.	the the
	Und		2 y	5 y	1 10	61 5	7 3	99 gund		Deatl ons in
Poliomyelitis	1	1				***			2	2
Meningitis, other forms or un- defined	9	1	5	5	2	2	1	1	26	9
Locomotor Ataxy	***					1	3	1	5	2
Other Diseases of the Spinal			1		1	2	4	3	11	7
Cerebral Hæmorrhage,			1	1		11	68	86	166	27
Apoplexy						2	4	7	13	2
Paralysis without specified					1	3	10	12	26	7
General Paralysis of the Insane						18	14		32	3
Other forms of Mental Alienation	1	3	1	1	1	11	6	2	26	4
Epilepsy					1				1	1
(5 years and over) Infantile Convulsions (under 5 yrs.)	57	6	5			***	***		68	2
Chorea					1	1			2	4
Hysteria, Neuralgia, Neuritis . Other Diseases of the Nervous			***		***	***	1	***	1	1
System				1	2	3	7		13	10
Mastoid Disease Other Diseases of the Ears		i	2	3	4	1	***		10	3 15
							,			
Pericarditis	1			1	2	1	4	3	12	7
Valvular Disease, Fatty De-				9	9	46	101	93	050	E1
generation of the Heart Other Organic Disease of the	555			3	9				252	51
Heart						13	31 10	39	83	4
Aneurism	***						4	1	5	5
Arterial Sclerosis Other Diseases of Arteries				***	***		7	34	41	23
Cerebral Embolism and Throm-				***				***		1
Other Embolism and Throm	***				2	2	1	5	10	5
bosis		***				1	1	1	3	1
Diseases of the Veins (Varices, Hæmorrhoids, Phlebitis,&c.)						1	2	3	6	2
Hæmorrhage; other Diseases		100000		1 2200						
of the Circulatory System .	***	***	***	***	1	1		2	4	1
Diseases of the Larynx	2	3	1	1	1		1		9	2
Diseases of the Thyroid Body . Bronchitis	86	19	7	***	2	6	71	96	287	60
Broncho-Pneumonia	50	33	23	5	1	3	6	10	131	22
Lobar Pneumonia	2	2	5	2	7	13	16	6	53	14
Pneumonia (type not stated) .	7	8	5	4	3	14	16	7	64	9
Pleurisy	2	2	2	4	1	3	4	3	21	21
monary apoplexy.			2	2		1		4	9	

TABLE III. OF THE LOCAL GOVERNMENT BOARD.—CONTINUED.

RETURN OF CORRECTED (OR NET) DEATHS FROM ALL CAUSES AT AGE PERIODS DURING THE 52 WEEKS ENDED 28TH DECEMBER, 1912.

			-		AGE P	ERIODS.				-
CAUSE OF DEATH.	Under I year.	1 year and under 2.	2 years and under 5.	Syears and under 15.	15 years and under 25.	25 years and under 45.	45 years and under 65.	65 years and above.	Total.	Deaths in Institu- tions in the City, of "Residents" or "Non-Residents."
Asthma						2	5	6	13	2
Pulmonary Emphysema	***				***	1	3	3	7	
Fibroid Disease of Lung					***	1	1	1	3	
Other Diseases of the Respira-			,				3		4	
tory System		***	1		***	***	3	***	4	***
Diseases of the Pharynx, Tonsillitis						1			1	
Diseases of Œsophagus					1				1	
Perforating Ulcer of Stomach .	***	***			1	4	9	1	15	6
Inflammation of Stomach	2	1		1			2	5	11	5
Other Diseases of the Stomach	8	1	1	1	***		2	2	15	
Diarrhœa and Enteritis	41	13	4	2	1	7	11	7	32 54	21 6
Epidemic or Zymotic Enteritis . Appendicitis	41			5	1		3		9	27
Hernia, Intestinal Obstruction	3				2	1	6	9	21	45
Other Diseases of the Intestines						2	5	1	8	4
Acute Yellow Atrophy of Liver						1	1		2	1
Cirrhosis of the Liver						4	10	5	19	5
Biliary Calculi						2	1 3	3 2	7	7
Other Diseases of the Liver .				1		1	2		4	13
Peritonitis (cause unstated) . Other Diseases of the Digestive		***	***	- 5	***		-	***		10
System							1	***	1	2
				-						
Acute Nephritis		***		3	5	7	19	14 29	48	21
Bright's Disease Other Diseases of the Kidney	***	***	***	1	3	7	36	29	76	26
and Annexa					1	1	1	3	6	7
Calculi of the Urinary Passages							î		1	2
Diseases of the Bladder		***				4	4	8	16	4
Diseases of the Urethra,										
Urinary Abscess, etc					***	1	1	1	3	3
Diseases of the Prostate		***	•••		***		2	7	9	6
Genital Organs					1				1	2
Uterine Hæmorrhage (non-		***		***	1					-
puerperal)										1
Uterine Tumour (non-cancerous)							1	1	2	1
Other Diseases of the Uterus .					***	2		1	3	4
Ovarian Cyst, Tumour (non-									,	-
cancerous)		***		***		1	***		1	1
Accidents of Pregnancy					1	5			6	
Puerperal Hæmorrhage						7	1		8	2
Other accidents of Childbirth .					1	2			3	3
Puerperal Fever					1	4			5	1
Puerperal Albuminuria and						-			0	
Convulsions	•••				1	5			6	1
Puerperal Phlegmasia Alba Dolens, Embolism and										
Sudden Death						1			1	
				-		- 9			N. Park	

TABLE III. OF THE LOCAL GOVERNMENT BOARD.—CONTINUED.

RETURN OF CORRECTED (OR NET) DEATHS FROM ALL CAUSES AT AGE PERIODS DURING THE 52 WEEKS ENDED 28TH DECEMBER, 1912.

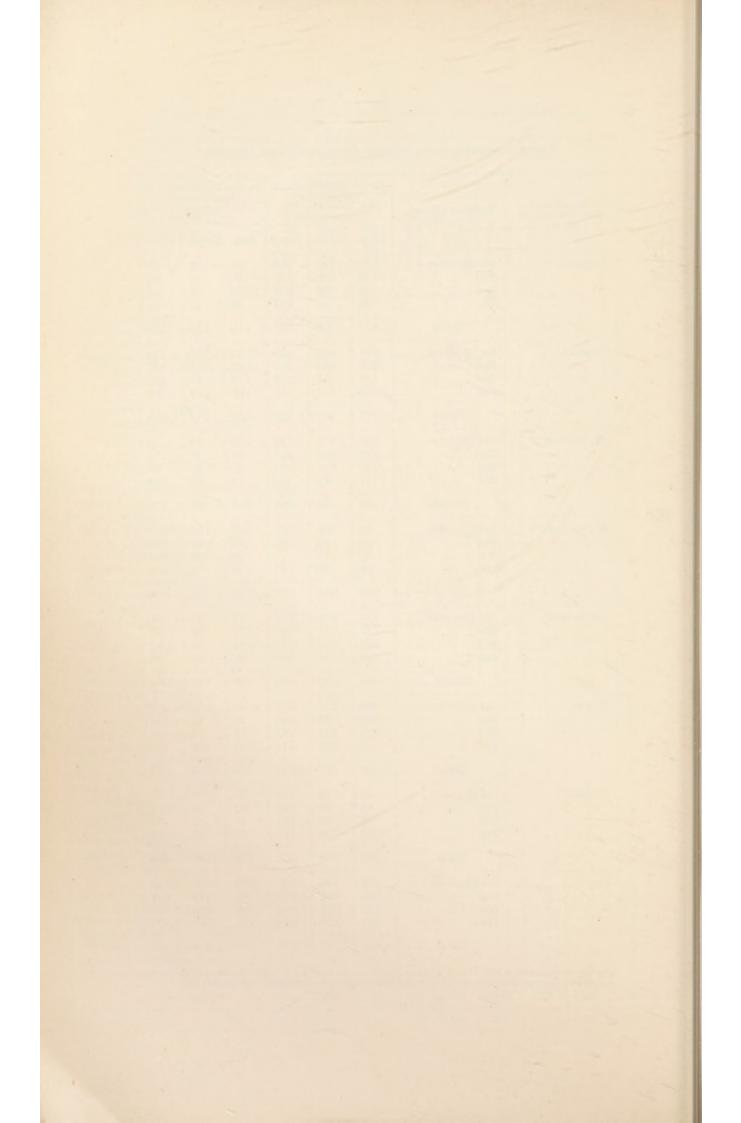
CAUSE OF DEATH.	1	2 1 45 years and	10	10 2 2 3 6 4 4 26 139 160 9 1 8 7	Deaths in Institu- Deaths in Institu- 10 8
Gangrene, other types Carbuncle, Boil Phlegmon, Acute Abscess Diseases of the Integumentary System Diseases of the Bones Other Diseases of Locomotor System Congenital Malformations Congenital Malformations 1 2 1 Premature Birth Infantile Atrophy, Debility, and Marasmus Icterus Neonatorum, Sclerema and Œdema Neonatorum Diseases of Umbilicus, etc. Injuries at Birth Other diseases peculiar to early infancy Lack of care Suicide Poisoning by Food Other acute Poisonings Burns (conflagration excepted) Injury by Firearms Injury by Fall Injury by Other crushing (Vehicles, Railways, Land-slides, etc.) Injury by other crushing (Vehicles, Railways, Land-slides, etc.) Injury by other crushing (Vehicles, Railways, Land-slides, etc.) Injury by Other crushing (Vehicles, Railways, Land-slides, etc.) Injury by Other crushing (Vehicles, Railways, Land-slides, etc.)	1	2 1 2 2 2 2	1 1	2 2 3 6 4 4 26 139 160 9 1 8 7	2 7 1 8 10 8 33 1
Carbuncle, Boil Phlegmon, Acute Abscess Diseases of the Integumentary System	1	1 1 1 1 2 1 1	1 1	2 3 6 4 4 26 139 160 9 1 8 7	7 1 8 10 8 33 1
Phlegmon, Acute Abscess Diseases of the Integumentary System	1	1 1		3 6 4 4 26 139 160 9 1 8 7	7 1 8 10 8 33 1
Diseases of the Integumentary System	1	2 1		6 4 4 26 139 160 9 1 8 7	1 8 10 8 33 1
Diseases of the Bones	1	2 1		4 4 26 139 160 9 1 8 7	8 10 8 33 1
Other Diseases of Locomotor System		2 1		4 26 139 160 9 1 8 7	 10 8 33 1
Congenital Malformations 21	1			26 139 160 9 1 8 7	10 8 33 1
Premature Birth				139 160 9 1 8 7	8 33 1
Premature Birth				160 9 1 8 7	33 1
Infantile Atrophy, Debility, and Marasmus				160 9 1 8 7	33 1
Icterus Neonatorum, Sclerema and Œdema Neonatorum 9				9 1 8 7	1
and Œdema Neonatorum 9 Diseases of Umbilicus, etc. 1 Atelectasis				1 8 7	
Atelectasis				8 7 2	
Injuries at Birth				7 2	
Other diseases peculiar to early infancy				2	
infancy	75.00			4 00	1
Lack of care	75.00		1000000	4	
Old age <				1	
Poisoning by Food		5	204	209	54
Poisoning by Food	5	9 15	3	32	4
Other acute Poisonings		1		1	1
Burns (conflagration excepted). 1 1 10 8 Accidental Drowning		2	1	3	5
Injury by Firearms	1	3 1		25	29
Injury by Fall	3	2 1	2	11	***
Injury in Mines and Quarries				01	14
Injury by Machines	3	6 6 1	4	21	6
Injury by other crushing (Vehicles, Railways, Landslides, etc.)		1 1		2	1
(Vehicles, Railways, Land- slides, etc.) 4			***	-	
slides, etc.) 4					
	1	4 2	2	13	22
			1	1	1
Weather Agencies		1		1	
Electricity (lightning excepted)				1	90
Other Violence 9 2 3 3	2	9 7	4	39	36
Dropsy		2		2	1
Syncope (aged 1 year and under 70)		2	1	3	
Heart Failure Do		3 5	9.	17	10
Atrophy, Debility, Marasmus 10 1		***	1	13	10
Teething . Do. J. 6 Other ill-defined deaths		1 5	1	7	
Communication of the state of t			1	5	
		4		3,838	1,241
TOTAL		4	903	0,000	1,441

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TABLE SHOWING DISTRIBUTION OF BIRTHS AND DEATHS.

Registration Sub-districts and City.	Different Quarters of the Year.	28th I	Register Jeeks end December ncorrecte	fed r, 1912	28th I	Register eeks end December ncorrecte	led r, 1912
City.		Male.	Female.	Total.	Male.	Female.	Total.
Benwell	1st Quarter	107	102	209	45	24	69
	0-1	106	109	215	32	31	63
	94	106	96	202	29		
	dela	92	89	181	49	16	45
	Total	411				42	91
	Total	411	396	807	155	113	268
Elswick	1st Quarter	171	169	340	162	117	279
	2nd ,,	208	205	413	127	115	242
	3rd ,,	174	151	325	126	87	213
	4th ,,	168	177	345	125	144	269
	Total	721	702	1,423	540	463	1,003
St. Nicholas'	1st Quarter	104	116	220	50	74	124
	2nd ,,	122	101	223	40	31	71
	3rd ,,	123	98	221	52	39	91
	4th ,,	111	89	200	79	64	143
	Total	460	404	864	221	208	429
St. Andrew's	1st Quarter	93	108	201	177	134	311
ou maion o m	2nd	85	83	168	157	103	260
	24	99	72	171	139	120	
	461-	78	65				259
	10.00			143	176	124	300
	Total	355	328	683	649	481	1,130
All Saints'	1st Quarter	110	126	236	51	39	90
	2nd ,,	116	111	227	41	36	77
	3rd ,,	107	114	221	32	29	61
	4th ,,	102	100	202	62	44	106
	Total	435	451	886	186	148	334
Byker	1st Quarter'	268	249	517	99	99	198
	2nd ,,	288	258	546	76	71	147
	3rd ,,	237	228	465	73	75	148
	4th ,,	247	227	474	140	128	268
	Total	1,040	962	2,002	388	373	761
Walker	1st Quarter	65	78	143	38	39	77
	2nd "	75	72	147	32	32	64
	3rd "	76	57	133	31	27	58
Party of the same of	4th ,,	53	78	131	55	42	97
	Total	269	285	554	156	140	296
City	1st Quarter	918	948	1,866	622	526	1,148
	2nd "	1,000	939	1,939	505	419	924
	3rd ,,	922	816	1.738	482	493	875
	4th ,,	851	825	1,676	686	588	1,274

The Births represent a rate of 26.8, and the Deaths a rate of 15.7 per 1,000 estimated population. The increase of Births over Deaths is 2,998 this year, as compared with 2,422 in 1911.



INFANTILE MORTALITY.

(SUPERINTENDENT OF MIDWIVES.)

INFANTILE MORTALITY.

SUMMARY OF BIRTHS, 1912.

	LI	EGITIMA	ATE.	ILLI	Grand		
	M.	F.	Total.	M.	F.	Total.	Total.
Total Births in the Year Net " "		3,373 3,353	6,899 6,870	165 167	155 157	320 324	7,219 7,194

DISTRIBUTION OF DEATHS.

	TRATION ISTRICTS.		Deat Children 1 year		Rates per 1,000 of Deaths under 1 year to Birth registered.			
			1911.	1912.	1911.	1912.		
Benwell			 112	71	131	88		
Elswick	***		 186	135	133	95		
St. Nicholas'			 140	106	163	123		
St. Andrew's			 110	84	155	124		
All Saints'			 112	90	126	102		
Byker	***	***	 240	182	127	91		
Walker			 73	59	150	107		
City			 973	727	137	101		

SUMMARY OF MORTALITY, 1901-1912.

1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912
177	139	166	155	138	153	126	139	122	123	137	101
83.8	74.8	84.9	82.6	71.6	75-6	68-6	76:6	64.8	66.9	71:5	60:3
20.1	20.7	25.1	20.9	19.7	22.0	21.2	24.8	19.8	18-8	21.7	19:
40.8	51.7	62:1	60:6	52-1	61:5	43:0	44-6	49.3	49·6	43.0	18.0
											10.0
	177 83·8 20·1 40·8	177 139 83·8 74·8 20·1 20·7 40·8 51·7	177 139 166 83·8 74·8 84·9 20·1 20·7 25·1 40·8 51·7 62·1	177 139 166 155 83·8 74·8 84·9 82·6 20·1 20·7 25·1 20·9 40·8 51·7 62·1 60·6	177 139 166 155 138 83·8 74·8 84·9 82·6 71·6 20·1 20·7 25·1 20·9 19·7 40·8 51·7 62·1 60·6 52·1	177 139 166 155 138 153 83·8 74·8 84·9 82·6 71·6 75·6 20·1 20·7 25·1 20·9 19·7 22·0 40·8 51·7 62·1 60·6 52·1 61·5	177 139 166 155 138 153 126 83·8 74·8 84·9 82·6 71·6 75·6 68·6 20·1 20·7 25·1 20·9 19·7 22·0 21·2 40·8 51·7 62·1 60·6 52·1 61·5 43·0	177 139 166 155 138 153 126 139 83·8 74·8 84·9 82·6 71·6 75·6 68·6 76·6 20·1 20·7 25·1 20·9 19·7 22·0 21·2 24·8 40·8 51·7 62·1 60·6 52·1 61·5 43·0 44·6	177 139 166 155 138 153 126 139 122 83·8 74·8 84·9 82·6 71·6 75·6 68·6 76·6 64·8 20·1 20·7 25·1 20·9 19·7 22·0 21·2 24·8 19·8 40·8 51·7 62·1 60·6 52·1 61·5 43·0 44·6 42·3	177 139 166 155 138 153 126 139 122 123 83·8 74·8 84·9 82·6 71·6 75·6 68·6 76·6 64·8 66·9 20·1 20·7 25·1 20·9 19·7 22·0 21·2 24·8 19·8 18·8 40·8 51·7 62·1 60·6 52·1 61·5 43·0 44·6 42·3 42·6	177 139 166 155 138 153 126 139 122 123 137 83·8 74·8 84·9 82·6 71·6 75·6 68·6 76·6 64·8 66·9 71·5 20·1 20·7 25·1 20·9 19·7 22·0 21·2 24·8 19·8 18·8 21·7 40·8 51·7 62·1 60·6 52·1 61·5 43·0 44·6 42·3 42·6 43·9

Prior to 1911, figures uncorrected for cases belonging to other districts.

For particulars of deaths, as to causes and age distribution, see following page.

^{* &}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.

^{+&}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 IV. OF THE LOCAL GOVERNMENT BOARD.

RETURN OF CORRECTED (OR NET) DEATHS UNDER ONE YEAR OF AGE DURING THE 52 WEEKS ENDED 28th DECEMBER, 1912.

		-			Ag	E PER	ions.				
		-		1	- 10						
CAUSE OF DEATH.	Under 1 Week.	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Toral under 1 Month.	1-3 Months.	3-6 Months.	6-9 Months.	9-12 Months.	Torat under I year of age.	Deaths in Institu- tions in the City, of "Residents" or "Non-Residents."
Infantile Atrophy, Debility, and Marasmus Icterus Neonatorum, Sclerema and Œdema Neonatorum Diseases of Umbilicus, etc Atelectasis Injuries at Birth Other diseases peculiar to early infancy Lack of care Burns (conflagration excepted) Other violence	23 3 2 1 1 9 109 45		2	1 1 1 2 1 2 1	3 1 1 1 2 6 1 2 1 15 133 81 9 1 7 7 2 2 1 3	2 1 1 2 2 3 1 2 2 8 20 14 1 1 2 2 3 1 2 3 1 4 31 4	1 1 4	11 6 1 1 1 5 2 1 1 17 10 1 8 1 8	14 1 5 2 1 1 1 4 1 3 1 5 12 16 1 2 11 8 1	26 20 3 2 2 3 2 2 13 8 1 5 1 1 1 9 1 57 1 2 86 50 2 2 2 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 1 1 3 4 4 4 2 4 1 2 4 4 4 2 4 4 2 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Teething						1		3	2	6	
TOTAL	010	31	40	31	321	113	116	84	93	727	82
Uncorrected	00.1	91	20		-						
Uncorrected	224	31	39	31	325	119	119	92	96	751	

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 1912.

MIDWIVES ACT, 1902.

Midwives Roll.—38 Midwives notified the Local Supervising Authority of their intention to practise. Of these 12 work entirely as monthly nurses, and 23 act as midwives and occasionally as monthly nurses. One of the monthly nurses has left the city since notifying. Two midwives are too old to practise.

A large proportion of the midwifery work in the city is performed by the Maternity Hospital.

Prosecution.—In November a woman was proceeded against by the Sanitary Authority for "habitually and for gain attending women in childbirth, otherwise than under the supervision of a qualified medical practitioner," she not being a certified midwife.

Attendance on five recent cases was proved, but, although a blouse had been promised by one mother, some coals given by another, and some money lent by (and stated to have been repaid prior to the confinement to) a third, it was held that "gain" had not been established. The magistrates, while sympathising with the object of the Sanitary Authority to prevent such unsuitable persons practising midwifery, felt that they could not convict upon the evidence before them, and the case therefore failed.

The same woman was prosecuted in 1911 for a similar offence, and although it was proved on that occasion that one or two cases had been attended and fees paid, thus establishing "gain," it was held that the instances were not sufficiently numerous to constitute "habitual attendance," and the case was dismissed.

It is well-nigh impossible to obtain the necessary information from persons attended by these ignorant handy-

women, for the latter are invariably regarded as persecuted benefactresses, and popular sympathy is always with them.

In spite of unfavourable verdicts, however, attendances by unregistered women are rapidly becoming rarer wherever the Midwives Act is strongly administered, as in Newcastle.

Inspection.—128 visits were paid to the midwives at their homes, to inspect the hygienic condition of their dwellings, to see that their bags of appliances were complete and in compliance with the rules of the Central Midwives Board, that their chart books were filled in daily, recording the temperature and pulse of each patient, and that their registers were filled up correctly.

The number of visits paid varies from two or three to the more competent women, to seven or eight to those who require more supervision. It is satisfactory to record that the necessity for these visits becomes less and less each year, the midwives being anxious to improve themselves and attending lectures regularly, and it is found that those who do not attend the weekly meetings are the ones who need most supervision as regards their equipment and home conditions.

The midwives are encouraged to regard their work as a valuable corollary to that of the Health Department, and to extend their interest in their cases as much as possible. They receive systematic instruction in home hygiene and in the modern methods for the prevention of infantile mortality, and their influence is seen in the improved habits of their patients.

Many mothers engage the midwife some time before the confinement, thus giving an opportunity for the investigation of prenatal conditions, and for instruction in the care of the patient herself and in the welfare of the infant, special stress being laid upon the importance of breast feeding. Efficient preparations can thus be made, with the greatest advantage to both mother and child.

Births attended by Midwives.—1,763 live births and 24 still births were attended during the year.

Puerperal Septicæmia.—2 cases occurred during the year in the practice of two midwives.

Lectures to Midwives.—35 lectures were delivered by the Superintendent of Midwives, and were well attended. In addition to these, there were 7 addresses by medical men and others in connection with the Northumberland and Durham Midwives' Association, of which the Superintendent is honorary secretary, and these also were well attended by the Newcastle midwives.

Notices to Local Supervisory Authority from Midwives who had sent for medical help, 138. Details are as follows:—

Prematurity (5 cases of twi	ins) 36	Eclampsia		1
Immaturity	7	Contracted Pelvis		3
Infantile Convulsions	4	Abnormal Presentation	ns	10
Ophthalmia Neonatorum	6	Icterus Neonatorum		1
Post-partum Hæmorrhage	4	Mothers' illness		7
Ante-partum Hæmorrhage	6	Septicæmia		2
Adherent Placenta	4	Uterine Inertia		24
Placenta Prævia	2	Invertion of Uterus		1
Inflamed Umbilicus	1	Ruptured perinæum		2
Rise of Temperature	15			
Abortion	2			138

Expectant Mothers.—114 were visited, and 73 attended the classes held every week at the Mothers' and Babies' Welcome and School for Mothers, and received instruction and advice. It is most important to reach the young mothers and encourage them to join the classes held for their benefit, and the results obtained with those who have attended these institutions certainly justify the wide extension of the movement. General public interest is being roused to the importance of securing healthy conditions for the mother and child, and the Superintendent of Midwives continually receives requests to give health talks to mothers' meetings, girls' clubs, etc. As far as possible, these requests are acceded to, and every effort is made to combat the often appalling ignorance which, in a great many cases, is alone responsible for the conditions which lead to a high infant mortality.

Leaflets ("Advice to Mothers").—8,000 were distributed during the year, many through the help of the numerous

voluntary workers in the city. Supplies of these are in the hands of the officials in charge of the maternity wards of the Union Infirmary, Day Nurseries, Mothers' Welcomes, and Mothers' Meetings, and also of the Midwives.

Interviews.—237 interviews have been held with Midwives and mothers in the office of the Superintendent of Midwives.

Baby Weighing.—833 babies have been weighed in the office, at the various Mothers' Meetings, and at the Mothers' Welcomes. The weighings provide valuable opportunities for giving practical advice to the mothers, and have a marked effect in stimulating their interest and rivalry in their children's progress.

NOTIFICATION OF BIRTHS ACT, 1907.

Notifications Received.—4,840 notifications of births have been received, out of a total of 7,219 registered. Particulars of those not notified were obtained from the registrars of the sub-districts at a later date, and consisted almost entirely of better-class cases under the care of private medical practitioners.

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

Notified by			Living Births.	Still Births.
Medical Practiti	oners	 	1,890	 80
Maternity Hospi	ital	 	1,053	 49
Union Infirmary		 	82	 5
Midwives		 	1,763	 24
Unregistered We	omen	 	_	 _
Parents		 	52	 _
Tota	als	 	4,840	 158

Work of Health Visitors.—Of the births notified, 2,161 cases in the poorer parts of the City were visited as soon after birth as possible, and 1,490 were assigned to the two Health Visitors for regular revisitation until the infants attain the age of 12 months. In all 5,602 visits were paid by the Health Visitors.

Every endeavour is made by the two ladies to keep in touch with all the cases assigned to them for supervision, often at the cost of much weary travelling where removals have occurred. Many cases of neglect and cruelty are met with, and these are promptly reported, so that they may be dealt with by a hospital or private doctor, the Relieving Officer, or officer of the Royal Society for Prevention of Cruelty to Children. Frequently insanitary conditions are found in the homes, and these are brought to the notice of the Medical Officer of Health, who is also kept informed of the existence of non-notifiable infectious disease among the poorer classes.

Much interesting information is obtainable from the records of the visits, and the following are particulars regarding the babies, born in 1911, who reached their second birthday in 1912. 1,526 names had been entered on the lists of the Health Visitors, and of these 157 were lost sight of and could not be traced. Of the remaining 1,369, 132 died—i.e., 96 deaths per 1,000 births, as compared with a mortality rate for the City generally of 101 deaths per 1,000 births.

This mortality rate is the lowest yet recorded, and is most satisfactory, considering that the supervision can be only partial at the best, and that the babies are those of the poorest and most ignorant class.

Now that the registered Midwives are 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 103 per 1,000 births; of those in two-roomed houses, 80 per 1,000 births; and of those in three-roomed houses, 54 per 1,000

births; only 25 babies, living in houses of more than three rooms, were visited, and of these, 1 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 154 babies whose mothers were in bad health 20, or 130 per 1,000, died.

Attendance at Birth.—Of the midwives' cases, the mortality figure is 93 per 1,000 births. Of the babies whose advent was assisted by untrained handywomen, the mortality was at the rate of 100 per 1,000 births.

Feeding.—78 per cent. of the babies under observation were entirely breast fed (as compared with 73 per cent. in 1911), while 9 per cent. received artificial (in addition to breast) feeding before the age of 9 months, and less than 1 per cent. were entirely artificially fed. The death rate among those entirely breast fed reached the low figure of 81 per 1,000 births.

Illegitimacy.—The infantile mortality rate for legitimate children is 92 per 1,000, whereas that of the illegitimate babies is 237 per 1,000 births.

Sex.—The mortality rate among male infants was 102, and that among females 89, per 1,000 births.

It is to be noted that all the particulars given above are only in respect of infants visited by the officers of the Health Department, and do not refer to any others than those entered in their books for supervision.

I am, Sir,

Your obedient Servant,

Health Department,
Town Hall,
May, 1913.

ELIA RENAUD,
Superintendent of Midwives.

HOUSING AND THE INFANT DEATH RATE.

During the five years 1908-1912 there have been 37,915 births, and 4,737 deaths of infants under one year, giving an average annual infantile mortality rate of 125 deaths per 1,000 births. Of these, 6,333 infants were under the observation of the Health Visitors throughout their first year of life. Although these included the very poorest and most unfavourably circumstanced of all, only 702 died, which is equivalent to a rate of 110 deaths per 1,000 births.

The following is an analysis of the housing of the above 6,333 children, with the death rate for each class:—

				LIVING IN										
YEAR.	1 R	oom.	2 Re	ooms.	3 R	ooms.	More than 3 Rooms.							
	Births.	Deaths.	Births.	Deaths.	Births.	Deaths.	Births.	Deaths						
1908	247	32	515	57	312	32	13	2						
1909	339	53	694	86	168	32	29	3						
1910	536	62	723	68	51	4	7	2						
1911	462	68	794	79	77	6	20	1						
1912	465	48	746	60	110	6	25	1						
5 Years	2,049	263	3,472	350	718	80	94	9						
Death rate per 1,000 births visited. (5 Years).	1	28	1	01	1	11	9	6						



INFECTIOUS DISEASES.



45

INFECTIOUS DISEASES.

NUMBER OF CASES PER 1,000 POPULATION IN 1912.

		Атта	ск-Rate	PER 1,000	Popula	rion.	
DISTRICT.	Small- pox.	Typhus.	Scarlet Fever.	Diph- theria.	Enteric Fever and Con- tinued Fever.	Puer- peral Fever.	Ery- sipelas.
England and Wales .	0.00	0.00	2.98	1.24	0.23	0.06	0.63
75 County Boroughs .	0.01	0.00	3.46	1.34	0.28	0.07	0.74
NEWCASTLE-UPON-TYNE .			4.43	1.86	0.30	0.02	0.58
Hull			1.16	1.12	0.48	0.08	0.75
Leeds			2.75	1.59	0 16	0.07	0.64
Bradford	0.01		2.24	1.46	0.89	0.06	0.81
Sheffield			3.79	1.18	0.36	0.12	0.97
Manchester	0.00		2.92	0.80	0.38	0.19	0.61
Salford			2.36	1.05	0.35	0.11	0.77
Liverpool	0.00	0.01	3.80	1.31	0.13	0.05	1.15
Nottingham	0.02		4.31	1.47	0.30	0.02	0.77
Leicester,			5.62	0.96	0.24	0.04	0.72
Stoke-on-Trent			2.96	2.19	0.60	0.14	0.70
Birmingham			7.05	1.17	0.13	0.09	0.91
Cardiff			2.59	2.94	0.31	0.06	0.93
Bristol	0.17		1.59	1.79	0.20	0.09	0.99
Portsmouth			5.99	4.48	0.67	0.03	0.68
London	0.00	0.00	2.51	1.57	0.16	0.08	0.91
Gateshead			2.65	1.08	0.14	0.01	0.49
South Shields	0.01		2.50	0.57	0.16	0.03	0.60
Tynemouth	0.02		3.37	1.07	0.19	0.03	0.78
Sunderland		0.05	1.51	1.08	0.30	0.06	0.40
Middlesbrough			5.11	0.96	0.19	0.03	0.50
County of Northumberlan	nd		4.89	1.47	0.38	0.04	0.55
County of Durham	0.00		6.08	1.34	0.39	0.03	0.64

"CHIEF ZYMOTIC DISEASES"-DEATHS.

					-	-	00	-		100	1 1 1 1 1 1		1 000
		.IstoT		:	59 164	34	33	38	:	15		88	370
		4th Qr.		:	-	10	6	œ	:	60		. 57	56 213 370 §
	CITY.	3rd Qr.		:	60	7	4	14	:	61		56	56
	-	2nd Qr.		:	:	10	6	1	:	10	:		41
		1st Qr.		:	01	12	=	6	:	10			09
	-					-							
		Total.		:	.5	32	26	6	:	13		9	91
	WALKER.;	4th Qr.		:	10	10	9	8	:	00	:	4	31
	AL	3rd Qr.		-	- :	5 7	7 4	2 2		4 2			15
	=	1st Qr. 2nd Qr.	-	-:	:		6	61	- :	44			26 19 15
-				:	:	10		8	:	-	:	-	
3		4th Qr. Total.			5456	- :	- :	-	- :	- ;	- :	4 23	82
CH	BYKER.	3rd Qr.		÷	15	- 1		-	- :	- :	:	00	159
Q	By	2nd Or.	-	÷	:	-:	- :	:	- :	- :	- :	-	7 10
AND CITY.		1st Qr.		:	-	-:	:	-	:	:	- :	4	19
SI	4	Total	-	:	0	1	- :	4	:	-	-	6	
SUB-DISTRICTS	SAINTS.	4th Qr.		:	1 19 20	:	-	-	:	:	:	01	234
STR	MAIN	3rd Qr.		:	-	:	:	-	:	:	:	-	3 22
DIS		2nd Qr.		:	:	:	- :	-	:	:	:	-	01
18.	ALL	1st Qr.		:	:	-		-	i	:	- :	10	1
	+	Total		:	=	:	01	10	:	01		4	34
NO	ST.ANDREW'S+	4th Qr.		:	11 11	:	-	-	:	:	-	4	173
Ĕ	DRI	3rd Qr.		:	:	:	:	4	:	:	:	9	4 10 17
28	AN.	2nd Qr.		:	:	:	_	:	:	_	:	61	4
REGISTRATION	S	lst Qr.		:	- 1	:	:	:	:	-	:	61	8
EG	.8.	Total.		:	13839	-	65	4	:	:	:	4	51
2	OL	4th Qr.		:	38	- 1	61	01	:	:	:	61	44
	CH	3rd Qr.		:	-	- :	:	-	- :	- 1	. :	-	61
	ST.NICHOLAS'.	2nd Qr.		:	:	:	:	_	- :	:	- :		-
-	00	. 1st Qr.		:	-		_	_	-:	- :	- 1		4
	*.	Total.		:	22 23	:		=	- :	- :	:	6 22	357
	FICE.	3rd Qr.		:	61	-:	- :	.:	-:	:	:	7	3 28
	ELSWICK.*	2nd Qr.	1	:	-	-	- :	01	- :	:	- :	60	5 13
	E	lst Qr.		-	-	- :	-	60	:	:	- :	9	
-	-	TORNOT	_	:		-	-	07	- :	•	- :	00	3 12 21 11
	4	Total	1	:	10 10	:	:	-	-:	:		61	12
	WEI	3rd Qr.		÷	-	-	:	-	-	:	:	60	3.1
	BENWELL.	2nd Qr.		:	:	-	:	-	:		:	-	00
	2	lat Qr. 2nd Qr. 3rd Qr. 4th Qr. th Qr.		:	:	i	:	-	:	:	:	61	00
				:	:			:	:	er	= :		:
						Scarlet Fever (Scarlatina)				Enteric (or Typhoid) Fever	Simple Continued or III- defined Fever	Diarrhæa (including Dysentery, Epidemic or Zymotic Enteritis, and Intestinal Catarrh.)	
				:	:	ark	dn	:	:	(pi	p :	clt lem iis,	:
						Sc	T Cro	gh		oho	nue	pid erit	
					:	er(anc	Con	er.	LyE	eve	Entra ats	00
						ev	ia	8	Fer	or	Col	y, E	TOTALS
				Smallpox	Measles	t F	Diphtheria and Membranous Croup	Whooping Cough	Typhus Fever	ic (mple Continued defined Fever	Diarrhœa (inclu Dysentery, Epidem Zymotic Enteritis, Intestinal Catarrh.)	To
				all	asi	urle	sht	100	oht	ter	efi	ar not est	
				H	le	5	le le	5	5	=	- E	12004	

[‡] Includes City Hospital for Infectious Diseases. § Representing a Rate of 1.4 per 1,000 population. * Includes Union Workhouse. † Includes Royal Victoria Infirmary and Fleming Memorial Hospital for sick children.

NOTIFIED CASES OF INFECTIOUS DISEASE,

EXCLUSIVE OF TUBERCULOSIS.

Ages of Cases of Infectious Disease Notified during the Year 1912. (Table II. of Local Government Board Returns).

		-	AT AG	ES-Y	EARS.				TOTAL (ALL AGES		
NOTIFIABLE DISEASE.	Under	1 to	5 to	15 to	25 to	45 to	65 and	Age not known.	(ALL	AGES).	
	1.	5.	15.	25.	45.	65.	upwards		1912.	1911.	
Diphtheria (in- cluding Mem-											
branous Croup).	11	153	249	57	27	4	G.		501	507	
Erysipelas	2	7	6	18	47	54	26	1	161	187	
Scarlet Fever	18	281	760	84	39	1		1	1184	734	
Typhus Fever										5	
Enteric Fever		11	28	12		10			91	87	
Puerperal Septi-									0.1	0,	
cæmia				2	5				7	6	
Epidemic Cerebro-									,		
Spinal Meningitis		3							3	2	
Acute Poliomye-			4.00							-	
litis	9	17	4						30		
TOTALS	40	472	1047	173	147	69	27	2	1,977	1,528	

WARD DISTRIBUTION OF INFECTIOUS DISEASES. (TABLE II. OF LOCAL GOVERNMENT BOARD RETURNS).

				_												200000				
DISEASES.	Benwell.	Fenham.	Elswick East.	Elswick North.	Elswick South.	Arthur's Hill.	Westgate North.	Westgate South.	St. Andrew's North.	St. John's.	St. Nicholas'	All Saints' West.	All Saints' East.	All Saints' North.	St. Andrew's South.	Jesmond.	Heaton.	Byker.	Walker.	TOTAL IN THE CITY.
Smallpox																				
Typhus																				
Continued																				
Fever Scarlet Fever	ga.	57	46	94	142	92	50	02	49				0.4				100			
Diphtheria	00	31	40	04	144	94	54	20	49	0	9	1	34	33	9	95	128	152	110	1184
(including Membranous																				
Croup)	41	23	15	21	24	43	25	15	35	1	4		10	16	5	29	46	83	65	501
Enteric (or Ty- phoid) Fever	18		9		9	8	4	3	7			2	4	2	4	4	3	11	10	0.1
Puerperal	10	•••	-		0	0	,	0	-	***	•••	4	*	-	**	4	3	11	10	91
Septicæmia					2		1		7							1		2		7
Erysipelas	11	5	9	7	14	23	7	3	7	1			7	7	1	1 5	17	29	8	161
Epidemic																				
Cerebro- Spinal																				
Meningitis	1					100	100										1	1		3
Acute Polio-									***								•			
myelitis	3	3	3		4				2	1	1					4	2	7		30
TOTAL	143	88	75	112	195	166	89	44	101	6	14	3	55	58	15	138	197	285	193	1977

For particulars of cases of **Tuberculosis**, see special section, pages 64 to 83.

HOUSEHOLDS AFFECTED WITH INFECTIOUS DISEASES.

7			Public						
DISEASES.	Single Cases.	2 Cases each.	3 Cases each.	4 Cases each.	5 Cases each.	7 Cases each.	8 Cases each.	Institu-	TOTAL
Smallpox									
Smallpox Scarlet Fever	720	137	34	10	2			10	913
Diphtheria (including	120	107	01	10	-				0.0
Membranous Croup	390	26	7	1				7	431
Enteric (or Typhoid)									
Fever	55	4	2			1	1	3	66
Puerperal Fever	7					***			7
Erysipelas	145							16	161
Epidemic Cerebro-									
Spinal Meningitis	3								3
Poliomyelitis	28			***				2	30
TOTAL	1,348	167	43	11	2	1	1	38	1,611

^{*} See page 50.

schools and infectious diseases.—Through the courtesy of the Secretary and of the Principal Medical Officer to the Education Committee, it has been possible to prepare the following statement, shewing the number of households affected with Scarlet Fever and Diphtheria per hundred scholars (calculated upon the average attendances).

SCARLET FEVER AND DIPHTHERIA IN SCHOOLS.

School.			Pe	er cent. of F	
School			Sca	rlet Fever.	Diphtheria.
Arthur's Hill		***		0.9	0.7
Atkinson Road				2.2	1.2
Bath Lane				2.5	0.9
Bentinck				1.4	0.1
Blenheim Street				1.2	0.4
Bolam Street				1.6	0.8
Chillingham Road				1.7	0.8
Canning Street				3.0	1.2
Clarence Street				0.2	0.2
Diana Street				2.3	1.5
Denton Road			***	-	_
Delaval				1:1	0.7
Elswick Road	***			3.0	0.4
Elswick Works	***			3.5	0.6
Heaton Park Road				2.1	1.0
Mitford Street		***	***	8.0	1.3
North Heaton				1.4	0.7
North View		***		4.2	1.1
Ouseburn		***	114	0.6	0.3
Raby Street				1.3	1.0
Royal Jubilee			***	1.2	1.0
Shieldfield				0.8	0.1
South Benwell			***	2.1	1.2
Spital Tongues		****		2.0	2.7
Saint Peter's				0.7	0.7
Sandyford Road			***	1.2	0.8
Todd's Nook				2.0	1.3
Victoria Jubilee	***			0.9	0.7
Walker East				2.0	0.6
Walker West	***	***		1.9	0.5

Walker Gate				4.5	8.0
Welbeck Road		***	***	2.5	0.6
Westmorland Road				4.3	0.4
Westgate Hill	***	***		2.3	1.2
West Jesmond				3.7	0.3
Wingrove	***	***		1.7	0.4

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.

Of the households infected with Scarlet Fever, 820 contained scholars of one or other of 75 different schools in the City. Scholars of 27 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 48.

In two schools there was infection in the households of the scholars during twelve months of the year, in four schools during eleven months, in four schools during ten months, and in six schools during nine months.

School Closure.—Owing to the prevalence of Scarlet Fever among school children during the last quarter of 1911, it was decided on the advice of the Medical Officer of Health and the Principal School Medical Officer not to re-open the Council schools after the Christmas holidays until 29th January. This period was extended in the case of 11 schools for another week, and in the case of 5 of these for still another week, all, with the exception of sections of two schools, being open by 12th February. These two sections were re-opened on the 19th and 26th February respectively.

Most of the private schools, Sunday schools, Bands of Hope, and other organised aggregations of children were also voluntarily stopped; it was regrettable, however, that the picture-halls continued to collect together large numbers of children during the period of the outbreak.

An outbreak of Diphtheria occurred in connection with the Walker Gate Council School in October and November, 19 cases being notified in all. Six cases, including one teacher, were reported between October 3rd and 21st, and all contacts and suspects among scholars and staff were bacteriologically examined, and one "carrier" discovered. Six fresh cases occurred shortly afterwards, and as the result of further swabbing six more "carriers" were found. Owing to the fact that the disease was of somewhat severe type in those cases who were clinically affected, it was decided to close the school for a period of three weeks from 8th November. On re-opening, swabs were examined from all teachers and scholars, all of whom were found to be free from the infection. No further cases occurred.

The importance of routine examination of swabs from the throats and especially the noses of all contacts as a preventive measure cannot be over-estimated. Many cases are thus discovered who, although not showing any visible symptoms themselves, are "carriers" of diphtheria germs, often of virulent type, and are capable of giving rise to what might prove to be a fatal attack of the disease in others, and it has been found repeatedly that such "carriers" are the chief means by which infection is spread.

PUBLIC INSTITUTIONS AND INFECTIOUS DISEASE.

The following notifications were received during the year:—

INSTITUTIONS, &c.	Scarlet Fever.	Enteric Fever.	Diph- theria.	Ery- sipelas.	Acute Poliomye- litis	TOTAL.
Royal Victoria Infirmary	10		3	5	***	18
Fleming Memorial Hospital, North Road	12	1	6		2	21
Children's Hospital, City Road	4		4			8
St. Vincent's Home	1		***			1
Workhouse	4	5	3	-11		23
City Hospital for Infectious Diseases (Staff)	2		8			10
Throat and Ear Hospital	1		***			1
Military Barracks	2	1	9			12
Deaf and Dumb Institution	1		1			2
St. Cuthbert's Grammar School	1					1
Total	38	7	34	16	2	97*

^{*} Does not include any cases belonging to the City which could properly be assigned to their homes

MILK SUPPLY IN RELATION TO INFECTIOUS DISEASE.

The source of the milk supply was ascertained in every case of fever and diphtheria. In no case was there reason to suspect that the milk was responsible for the conveyance of infection.

Four cases of Scarlet fever occurred on two farms in the city from which milk is supplied; one case died almost immediately, the other three were removed to hospital. No case occurred among the customers of the dairymen concerned.

One milk-salesman, and two children of another, both employés of one of the large dairy companies, contracted scarlet fever. All were removed to hospital, and there was no further spread of the disease.

At the present time there exist in Newcastle no less than 704 small general shops in which milk is retailed. None of these is a fit place for dealing with so easily contaminable a commodity as milk, but there is no way of preventing them. As the law stands, every milk shop must be registered, and the Local Authority cannot refuse to register it, no matter how insanitary and unsuitable it is for the purpose. The keeper requires no licence, and provided there is no actual nuisance in the shop, nothing whatever can be done to limit this dangerous trade. When the "Milk and Dairies Bill" becomes law, a remedy may be provided for this highly unsatisfactory state of affairs.

SCARLET FEVER.

Notifications of 1,184 cases were received during the year, and there were 34 deaths, which is equivalent to a mortality among the verified cases of 2.9 per cent. The type of disease was mild on the whole.

DIPHTHERIA.

501 cases were notified during the year, and 33 died, a case mortality of 6.9 per cent. among the verified cases, the lowest yet reached.

While the death-rate from this disease shows little or no

increase during the last thirty years, each successive year brings a steady increase in the number of cases, and a decrease in the fatality. How much this last circumstance depends upon the earlier use of improved methods of treatment cannot be accurately estimated, but the subjoined statement at least indicates that the free distribution of Antitoxin to the medical practitioners in the city, first commenced in April 1910, has been accompanied by a marked fall in the proportion of deaths.

Year.	DIPHTHERIA CASES. (All Forms.)						
rear.	Number.	Case Mortality					
1909	456						
*1910	443	9.0%					
1911	507	7.5%					
1912	501	6.6%					

^{*} Antitoxin first distributed gratis April, 1910.

Distribution of Antitoxin was as follows:—

Number of medical practitioners who made application	for	
Antitoxin		66
Number of phials of Antitoxin supplied		337
Number of cases of Diphtheria notified		501
Number of cases of Diphtheria removed to Hospital		410
Number of Hospital cases in which Antitoxin was injec-	cted	
prior to admission		198

MEASLES.

A considerable outbreak of this disease occurred during the winter months 1912-1913. The only means available of judging of the prevalence of measles or any other nonnotifiable disease is by the number of deaths registered each week.

Epidemics of measles often appear to start about the west end of the city, and gradually travel east, as was the case in 1912. All the schools were about equally affected; the uselessness of school-closure for the prevention of spread of measles after the occurrence of a number of cases, having been proved over and over again, this measure was not resorted to, but the principle of exclusion of all children who are members of the same family as sufferers, or who have

been otherwise exposed to infection, was adopted, with the exception that children over eight years of age who had already had measles, and were not attending a Department admitting infants, were not excluded. The reason for this is that experience has shown that infection is practically always incurred by direct contact with an actual sufferer and that if all susceptible contacts—i.e. those who have not had measles—are excluded, there is little fear of infection being conveyed by non-susceptibles. But since it is difficult to be certain of the measles-history of young children, all under eight years of age are regarded as susceptibles.

Even this method is far from perfect, and the only means of really checking the disease would seem to be by closing down a class entirely, immediately upon the occurrence of the first case. If this were done, the infant classes in some schools would never be open at all!

The following table shows the deaths from measles in each month and their age distribution:—

DEATHS FROM MEASLES.

MONTH, 1912.	YEARS OF AGE.								
	0-1.	1-2.	2-3.	3-4.	4-5.	5-10.	Over 10.	TOTAL	
January	-	_	1	-	_			1	
February	-	1	-				-	1	
March	-	-	-	-	_	_			
April	_		-		-	_		_	
May	-	1044	-		_				
June	_	_	-	_	-				
July	-			_	_	-		2011	
August	-	1	-		-		-	1	
September	-	2	20	1	_	_	_	2	
October	3	15	4	3	1	3		29	
November	8	29	9	6	5	7		64	
December	15	24	11	4	6	6	-	66	
Whole Year	26	72	25	13	12	16		164	

The death-rate from measles in 1912 is equivalent to 0.61 per 1,000 population.

The outbreak continued until May of the present year (1913), and for convenience the above table is continued on next page.

MONTH, 1913.	Years of Age.							
MONTH, 1919.	0-1.	1-2.	2-3.	3-4.	4-5.	5-10.	Over 10.	TOTAL
January	10	10	7	3	3	1		34
February	1	3	3	1	-	_	-	8
March	4	3	-	-	-	-	-	7
April	1		1	-	-	_	-	2
May	2	1	-	_	-	-		3

WHOOPING COUGH.

38 deaths, all under 4 years of age, occurred from whooping cough. The particulars are as follows:—

			YEARS	of Age.		TOTAL		
	Монтн		0.1.	1-2.	2-3.	3-4.	TOTAL	
January		***	 2	_		1	3	
February			 2 2 2	_	1	_	3	
			 2	1		-	3	
April			 2	_	_	1	3	
May			 	2	-		2	
June			 _	1	1	_	2	
July			 1	_	-	_	1	
			 3	3	1	_	7	
Septembe			 4	1	_	1	6	
October			 1	_	-	1	2	
Novembe			 1	2		-	3	
Decembe			 2	-	1	-	3	
Whole	Year		 20	10	4	4	38	

ENTERIC FEVER.

91 cases were notified during the year, including 16 which formed part of an outbreak of 26 cases occurring between 4th December, 1911, and 1st March, 1912, at Delaval Terrace, a special note upon which was made in last year's Report. There were 15 deaths, giving a death rate of 0.06 per 1,000 population, and a case mortality of 16.7 per cent.

The 91 cases occurred as follows:—7 were in Institutions, and 84 occurred in 63 households, of which 44 had water closets and 19 had dry closets, the attack rate per 1,000 households being 0.9 where there were water closets, and 2.7 where there were dry closets. That is to say the risk of acquiring enteric fever is three times as great for people living in dry-closet houses as for those with water-closets.

DIARRHŒA.

The autumn of 1912, on account of its cold and inclement weather, has been notable for the almost complete absence of epidemic diarrhœa. Only 20 deaths were registered from this cause during the whole year, as compared with 186 in 1911.

FOOD POISONING.

During the months of March, 16 cases of Ptomaine Poisoning occurred in 4 households.

9 of the cases were stated to be the result of eating "pig's cheek," and 7 were believed to be due to some "ham and tongue" purchased in the same shop.

Owing to delay in the information reaching the Health Department, no samples of the suspected articles could be obtained, and careful inquiry made at the shop, which was found to be exceptionally clean and well conducted, failed to reveal the cause of the infection. No deaths occurred.

TYPHUS.

No case of this disease occurred during the year.

SMALLPOX

was also entirely absent. The following are the particulars, courteously furnished by the Clerk to the Guardians, of infant **Vaccination** in Newcastle during recent years. (Walker, which belongs to the Tynemouth Rural area for registration purposes, is not included.)

	Distri	Successful	Unsuccessful	Exemption Certificates			
Year. Births Registered.		Vaccinations. 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		
1911	6,604	5,002	24	767	11.6		
1912	6,715	4,625	18	982	14.6		

^{*} Vaccination Act, 1907, came into force.

ERYSIPELAS.

161 cases of this disease were notified, and there were 9 deaths.

PUERPERAL SEPTICÆMIA.

Inquiries were made concerning 7 cases, 2 of which occurred in the practice of midwives.

EPIDEMIC CEREBRO-SPINAL MENINGITIS.

3 notifications were received during the year, 1 being in the Benwell district and 2 in Byker. 1 patient died, the other 2 were removed to hospital and recovered. Examination of the cerebro-spinal fluid of the latter two confirmed the diagnosis.

ACUTE POLIOMYELITIS.

Owing to recent prevalence of this disease throughout the country, it was made compulsorily notifiable in Newcastle, by local order, on July 4th.

During the ensuing six months 30 cases came under observation. Of these, 6 were cases of some months standing, 3 made a complete recovery, 20 were left with a greater or less degree of paralysis, 2 died, and 5 were lost sight of.

Most of the patients were under three years of age, and males were affected to a slightly greater extent than females.

The circumstances were specially investigated in 27 households. In these there was an average of 2.6 children under twelve years per house, and 2.9 persons over twelve. In no instance was a second case noted in one house, although none of the sick rooms was efficiently isolated, the majority of the patients being nursed in the kitchen, to which the rest of the family had free access. No over-crowding in the affected households was noted, and the ventilation in each case was good. In only two instances were there dry closets.

Ten of the dwellings were situated on or adjacent to roads on which there is a considerable amount of traffic, or in association with back streets that were none too clean.

Flies were not present in any great number owing to the coldness of the weather.

CITY HOSPITALS FOR INFECTIOUS DISEASES.

Accommodation.

NAME AND SITUATION OF HOSPITAL.	TOTAL AVAILABLE BEDS.		
City Hospital for Infectious Diseases, Walker Gate	172		
Smallpox and Isolation Hospitals, Town Moor	172		

CITY HOSPITAL, WALKER GATE.

Admissions during the year—1,542.

RATE PER CENT. OF CASES REMOVED TO HOSPITAL TO CASES NOTIFIED IN 1890, AND DURING EACH OF THE YEARS 1901-1912.

	1890	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912
Scarlet Fever	18-4	40-0	41.9	44.3	57:1	50-1	53-2	64.8	73.6	78-6	84.5	83.8	88:0
Diphtheria	8.3	28.8	24.1	24.5	35.8	36.8	37.4	51.4	68.1	76:1	80-1	80.5	81.8
Enteric Fever All cases of the above to-	38-9	44.7	50.9	58-7	53:3	52.0	78-6	62.1	82-9	82:3	90-5	92-0	91.2
gether with Continued & TyphusFever	21.3	39-7	42.0	45.1	46.0	47.8	56-6	59-9	72-6	78.0	83.0	83-1	86.4

Owing to the great pressure upon the accommodation during a large part of the year, an endeavour was made to encourage the friends in a number of instances to contrive to isolate their patients at home; in few cases was the attempt successful, hospital treatment being nearly always demanded. The cases whose removal to hospital is most usually resisted are those whose home conditions absolutely preclude any possibility of efficient isolation.

Diseases and Mortality Rates.

MORTALITY OF CASES TREATED IN HOSPITAL AS COMPARED WITH CASES TREATED AT HOME, DURING 1912.

		(1	Hospital Verified Cas		Номе.			
DISEASE.		Total Cases.	Deaths.	Deaths. Case Mortality per cent.		Deaths.	Case Mortality per cent.	
Scarlet Fever		1018	34	3.3	142	4	2.8	
Diphtheria		383	27	7.0	91	7	7.7	
Enteric Fever		82	13	15.8	8	2	25.0	

Diseases Admitted.

	Scarlet Fever. Diphtheria. Bateric Fever. Measles. Scarlet Fever Contact.	1,042 1,008 2 2 2 2	410 10 381 2 1	80 88				- : : : : : : : : : : : : : : : : : : :	1,542 1,018 383 82 7 3
	Enteric Pever. Mensles	2 2 2	2	80	3	:	:	:	82 7
	Mensles. Scarlet Pever	2		:	::	:	:		7
	Scarlet Fever		:	:	:	:	:		
		61	1000					-	60
			-						
	Tonsillitie.	. 9	10	:	:	:	:	:	91
1 19	Vincent's Angina.	:	_		:	:			_
Afte	Erythema.	=	:	:	:	:	-		=
r obs	Hæmorrhagica.			:	:	:	:	:	-
ervat	Copaiba Rash.		:		:		:		-
After observation proved to be	Laryngitis. Bronchitis.		3 1	:	:	:		:	3
roved	Broncho- Pneumonia.	-	-	:	:	-:	:	:	
to l	Epidemic Cerebro- Spinal Meningitis.	:	:	:	:	:	01	:	61
90	Tuberculous Meningitis.	:	:	-	:	1	:	:	-
	Postbasal Meningitis.	-	:	:	:	:	1	:	1
	Ptomaine Poisoning.	:	:	-	:	:	-	:	-
	Acute Rheumatism.	-	:	:	:	:	÷	:	1
	Carcinoma Uteri.	:	:	-	;	;	:	:	-
	Gastro-Enteritis.	65	:	:	1	:	:	:	60
	Otitis Media.	-	:	:	:	:	:	:	-
			:		:	-	:		

	.lesoT	\$25-1111-111-111-111-111	85
	Dec.	64-::::::::::::::::::::	00
	.voV.	P. #	12
	Oct.	1-01111111111	10
	Sept.	4011111111111111111	7
THS.	-SuA	01-01	7
Веатня	July.	01-111111111111111111111111111111111111	4
	June.	!!!!!!!!!!!!!!!!!!	60
	May.	01+01	00
	JingA	88	ıo
	Mar.	99	10
	Peb.	+0101	6
	.nat	(CO) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	6
	Total.	383. 383. 383. 383. 383. 383. 383. 383.	1,542
	Dec.	8 2 2 3 3 5 3 8 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8	135
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	Oct.	202 5 6 6 7 7 7 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9	150
96	Sept.	333	100 109 112 150 141 1351
Abmissions	Aug.	889:1-::::::::::::::::::::::::::::::::::	109
DMIS	July.	820::::::::::::::::::::::::::::::::::::	100
A	June.	62.c : : . : : : : : : : : : : :	86
	May.	620::-::::::::::::::::::::::::::::::::::	114
	.linqA	82. : : : : : : : : : : : : : : : : : : :	122 105
	.nsM	28 8 :0101 : 1 : 1 : 1 : 1 : 1 : 1	122
	Eeb.	3800	152
	Jan.	135	204
		Scarlet Fever Diphtheria Benteric Fever Measles Scarlet Fever Contact Tonsillitis Copaiba Rand Purpura Hæmorrhagica Copaiba Rash Simple Laryngitis Bronchitis Bronchitis Postbasal Meningitis Potbasal Meningitis Potbasal Meningitis Potbasal Meningitis Potbasal Meningitis Otitis Media Irritative Desquamation Irritative Desquamation	
	ró.		
	DISEASES.	nagi nagi	
	SEA	orrhingii ingii in	
	ā	ver	TOTALS
		Feer Free Free Free Free Free Free Free	Tol
		Scarlet Fever	
		Scarlet Fever Diphtheria Enteric Fever Measles Scarlet Fever Contact Tonsillitis Vincent's Angina Erythema Purpura Hæmorrhagica Copaiba Rash Simple Laryngitis Broncho-Pneumonia Epidemic Cerebro-Spina Tuberculous Meningitis Postbasal Meningitis Potomaine Poisoning Acute Rheumatism Carcinoma Uteri Gastro-Enteritis Otitis Media Irritative Desquamation	
-			

*Includes 2 Probationers. +Includes 6 Probationers, 1 Ward Maid, and 1 Laundress.

NOTE.—The deaths given above for each month refer to patients admitted during that month only, and have no reference to the actual number of deaths in that month.

Of the foregoing, the following died within 24 hours of admission—Scarlet Fever 4, Diphtheria 7, Enteric Fever 1, Epidemic Cerebro-Spinal Meningitis 1, and Post-basal Meningitis 1, Total 14.

Present Death Rate compared with those of previous years—

RETURN SHEWING THE NUMBER OF CASES OF SCARLET FEVER, DIPHTHERIA, AND ENTERIC FEVER ADMITTED TO HOSPITAL, AND MORTALITY RATES PER CENT.

1890-1896.

			100	90-1896.					
		BER OF C		Numb	ER OF D	EATHS.	CASE MORTALITY, PER CENT.		
YEAR.	Scarlet Fever.	Diph- theria.	Enteric Fever.	Scarlet Fever.	Diph- theria.	Enteric Fever.	Scarlet Fever.	Diph- theria.	Enteric Fever.
1890	114	15	80	2	1	14	1.8	6.7	17.5
1891	110	10	67	5	6	6	4.5	60.0	8.9
1892	244	18	26	8	5	5	3.3	27.8	19.2
1893	202	15	49	5	2	6	2.5	13.3	12.2
1894	230	8	60	6	3	13	2.6	37.5	21.7
1895	319	41	75	10	10	21	3.1	24-4	28.0
1896	289	28	78	7	-	14	2.4	_	18.0
•	1,508	135	435	43	27	79	2.8	20.0	18.2
			190	06-1912					
1906	442	133	52	7	27	9	1.4	20.3	17.3
1907	390	177	35	14	17	6	3.6	9.5	17:1
1908	283	220	88	7	21	5	2.5	9.5	5.7
1909	623	334	56	26	31	12	4.2	9.3	21.4
1910	465	317	47	11	29	5	2.4	9.1	10.6
1911	605	375	68	14	33	11	2.3	8.8	16.2
1912	1,018	383	82	34	27	13	3.3	7.0	15:8
	3,826	1,939	428	113	185	61	3.0	9.5	14.3

Diphtheria.—Cases in Hospital.—Of the 383 patients in Hospital, 317 were faucial, pharyngeal, or nasal cases, and of these 18, or 5.7 per cent., died. 65 were also laryngeal or tracheal, and of these 9, or 13.9 per cent., died. Tracheotomy was performed on 22 patients, of whom 5, or 22.7 per cent., died. 1 of the cases was non-clinical, being merely a "carrier" of the diphtheria bacillus. It is of interest to note that of 38 cases in which the nasal passages were involved 11 died.

Of the 27 deaths, 7 were of patients practically moribund on admission, who died within 24 hours.

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, patients receive the treatment earlier than previously.

Cases of **Mixed Infection.**—176 patients sent into Hospital, or 11'4 per cent., were found on admission to be suffering from two or more distinct infectious diseases, as follows:—

Scarlet Fever and Diphtheria			76
Scarlet Fever and Measles			7
Scarlet Fever and Varicella			10
Scarlet Fever and Pertussis			2
Scarlet Fever and Phthisis			12
Scarlet Fever and other Tuberculous	Diseases	3	3
Scarlet Fever and Enteric Fever			1
Scarlet Fever and Ringworm			8
Scarlet Fever and Impetigo			1
Scarlet Fever and Scabies			5
Scarlet Fever and Ophthalmia			2
Scarlet Fever and Vaginitis			3
Scarlet Fever and Vincent's Angina		***	1
Scarlet Fever and Gastro-Enteritis			1
Scarlet Fever, Pertussis, and Phthis	is		1
Diphtheria and Scarlet Fever			15
Diphtheria and Measles			6
Diphtheria and Varicella			3
Diphtheria and Pertussis			1
Diphtheria and Phthisis			1
Diphtheria and Ringworm			4
Diphtheria and Scabies			1
Diphtheria and Meningitis			1
Diphtheria and Syphilis			1
Diphtheria, Varicella, Pertussis, and	Pneumo	nia	1
Diphtheria, Pertussis, and Measles			1
Diphtheria, Scarlet Fever, and Meas	les		1
Enteric Fever with Phthisis			6
Enteric Fever with Sycosis Barbæ			1

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

To the Newcastle Sanita	ary Au	thority	 	Cases. 1,540
To private guarantors			 	2
Total			 	1,542

BACTERIOLOGICAL LABORATORY, CITY HOSPITAL.

The following examinations were made in connection with the patients in the wards:—

Swabs from Diphtheria cases				1,119
Swabs from Scarlet Fever cases,	for	presence	of	
Diphtheria germs				284
Blood for Widal reaction (Enteri	c Fe	ever)		14
Urine for Bacillus Coli				4
Cerebro-Spinal Fluid, for Mening	осо	ccus		5
Pus (various sources), for organis	sms			20
Ear Discharges				5
Eye Discharges				2
Mouth Infections-deposits				3
Hair for Ringworm				3
TOTAL				1,459

Swabs were examined from the throats of all scarlet fever cases which exhibited excessive local inflammation, or any membranous exudate, and 26 per cent. were found to be positive; also from noses where there was purulent discharge, and 53 per cent. of these were positive, *i.e.*, contained diphtheria bacilli.

SCARLET FEVER PREVALENCE AND STAFFING DIFFICULTIES.

Owing to the unusually large number of cases of Scarlet Fever admitted, the average number of patients (all diseases) under treatment at one time was much higher than in previous years, the lowest being 132, and the highest 277. The accommodation for scarlet fever was quite insufficient to meet the requirements, and recourse had to be had to the

Smallpox and Isolation Hospitals on the Town Moor, which were in use for some 528 clean convalescent cases of scarlet fever from 23rd October, 1911, to 11th June, 1912, and again from 8th October, 1912, to 18th March, 1913.

As shown in a previous table, no less than 11'4 per cent. of all cases proved on admission to be suffering from two or more infectious diseases, necessitating extensive use of the isolation wards, and so greatly increasing the administrative work. During the exceptionally busy periods in the spring and autumn many of the younger nurses left, on account of the very heavy work. Considerable difficulty was experienced in replacing them, owing to the low wage offered, and to a general shortage of nurses throughout the country.

The Sanitary Committee, however, have since reconsidered the scale of salaries, and this, together with a decrease in the number of patients admitted, has overcome the difficulty for the present at least.

AVERAGE STAY IN HOSPITAL DURING LAST SIX YEARS.

	All Cases.		All Cases. Scarlet Fever. Diphtheri		theria.	Enteric Fever.		Other Diseases.		
Year.	No.	Average Stay in Days.	No.	Average Days.	No.	Average Days.	No.	Average Days.	No.	Average Days.
1907	647	52.4	390	59.7	177	42.4	35	39.9	46	39-2
1908	614	48.4	283	56.3	220	40.0	88	48.5	25	31.8
1909	1,090	49.2	623	54.3	334	41.6	56	45.9	78	42.8
1910	912	44.4	465	51.3	317	37.2	47	46.4	83	32.5
1911	1,110	45.6	605	50.5	375	41.9	68	44.4	62	20.2
1912	1,542	45.8	1,018	46.1	383	45.7	82	46.2	59	20.9

"RETURN" CASES OF SCARLET FEVER, Year 1912.

SCARLET FEVER.	"Infec	ting" Cases.	" Retu	rn" Cases.	" Infecti	ng" Cases.
Total Admissions.	No.	Per- centage.	No.	Per- centage.	Average Days in Hospital.	Average Day of Disease when Discharged.
1,018	47	4.6	52	5.1	49.9	51.6

THE SEASONAL OCCURRENCE WAS AS FOLLOWS :-

Quarter.	Total	" Infe	cting " Cases.	"Return" Cases.		
guarter.	Scarlet Fever Admissions.	No.	Percentage.	No.	Percentage.	
January to March	316	16	5.0	19	6.0	
April to June	207	8	3.8	9	4.3	
July to September	211	9	4.2	9	4.2	
October to December	283	14	4.9	15	5.3	

"Return" Cases for Years 1906-1912.

Year.	Total Scarlet Fever	"Infe	cting" Cases.	"Return" Cases,		
rear.	Admitted.	No.	Percentage.	No.	Percentage	
1906	442	7	1.6	10	2.3	
1907	390	11	2.8	17	4.4	
1908	283	4	1.4	5	1.8	
1909	623	23	3.7	30	4.8	
1910	465	18	3.9	20	4.3	
1911	605	26	4.3	30	4.9	
1912	1,018	47	4.6	52	5.1	

TUBERCULOSIS OF THE LUNG.

The following is a summary of the notifications received under the Newcastle-upon-Tyne Corporation Act, 1911, of which the section providing for compulsory notification of all cases of Tuberculosis of the Lung came into force on 1st January, 1912, together with the work done in connection therewith.

		Quarter	ending-		Total	
Particulars of Notified Cases.	March 31st.	June 30th.	Sept. 30th.	Dec. 31st.	for Year	
Private Cases of Medical Practitioners	190	58	80	78	406	
Public Institution Cases	177	130	91	89	487	
Information obtained from Death Returns, Insurance Com- mittee, or from other sources	. 15	18	13	33	79	
TOTAL	382	206	184	200	972	

	Ist Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	Total for Year.
Deaths:-					
Private Cases of Medical Practitioners	46	43	29	40	158
Public Institution Cases	50	53	37	60	200
Total	96	96	66	100	358

	1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	Total for Year.
Total Notifications: (i.e., counting all re-notifications and cases of which information was only received from the Death Returns, or through other sources)	450	279	255	265	1249
Notified once	382	206	184	200	972
, twice by different doctors	51	54	44	43	192
three times	16	12	13	18	59
,, four ,, ,,	1	5	9	3	18
, five , , ,	***	5 2	4		6
nin			1		1
, seven , ,				1	1

Notifications under the Tuberculosis Regulations, 1908 and 1911.

	lst Quarter	2nd Quarter	3rd Quarter	4th Quarter	Whole Year.
Notified under Form A. (These notifications are included in total notifications)		35	46	33	146
Notified under Form B. (These notifications are included in total notifications)	- 65	4	5	1	18

Age of Persons notified.		1st Quarter.		2nd Quarter.		3rd Quarter.		4th Quarter.		Whole Year.	
	M.	P.	м.	F.	M.	F.	M.	F.	51.	F.	
Under 1 year			1	1					1	1 7	
Above 1 yr. and under 5 yrs	2	3		1	3		6	3	11	7	
5 15	15	23	24	27	18	21	15	23	72	94	
15 95	52	43	19	22	19	19	23	21	113	105	
05 45	85	64	42	31	38	29	51	29	216	153	
., 45 ,, ,, 65 ,,	38	30	22	7	20	10	17	19	97	56	
Aged 65 and upwards	3	3	1	1	3	2	1		8	(
Age not known	14	7	5	2	2		2	***	23	6	
(209	173	114	92	103	81	115	85	541	43	
Totals		82	2	06	1	84	2	00	9	72	

Ward Distribution of the Cases notified:

WARD			Population of Ward (census 1911).	Cases Notified in Ward.	Average per 1,000 of Population
Benwell			 17.265	56	3.24
Fenham			 10,833	35	3.23
Elswick East			 9,833	33	3.35
Elswick North			 16,309	53	3.25
Elswich South			 17,510	-85	4.85
Arthur's Hill	****	***	 22,501	97	4.31
Westgate North			 11,820	52	4.39
Westgate South			 8,960	55	6.13
St. Andrew's North			 11,735	32	2.72
St. John's			 1,772	3	1.69
St. Nicholas	***		 1,294	4	3.09
All Saints' West			 2,515	20	7.95
All Saints' East			 12,388	53	4.27
All Saints' North			 11,372	44	3.86
St. Andrews' South			 2,716	8	2.94
Jesmond			 21,374	49	2.29
Heaton			 30,077	83	2.75
Byker			 40,543	158	3.89
Walker			 15,786	52	3.29
In City			 266,603	972	3.64

Included in All Saints' West Ward are 6 persons who gave their place of residence as Lodging Houses in the City.

Thus the Wards in which Consumption is most rife are All Saints' West, Westgate South, Elswick South, Westgate North, Arthur's Hill, All Saints' East, Byker, and All Saints' North, in order of demerit.

One Special Inspector was appointed to visit the houses of notified cases, not the private patients of medical practitioners, to inquire into the sanitary circumstances, advise as to precautions, and to disinfect after all deaths and removals, and wherever else requested.

The following are the particulars of the work done, and information obtained, by this officer:—

Work Done by Special Inspector.

							lst Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	Whole Year.
Houses	visited disinfect						213	350	324	405	1,292
			in above		***		95 167	141	115 233	130	481
				oing to S	···		20	273 22	19	12	969 73
Dis		15 101 pa		nanging t			12	41	47	39	139
	"		,,	,,				4.	"	00	100
	other c						1				1
Hot	uses disir	nfected	afterdea	th (includ	led in ab	ove)	61	76	49	79	265
	siness p	laces d	lisinfecte	ed where	phthi						
				d in abov			1				1
Hou				ath from	~ ***	orms		-			
	of Tube			ed in abo			***	2	111		2
		Total	number	of visits			292	531	458	551	1,832
ove	rerowdir			y defects			45	25	18	35	193
(Th	Inspect	ng) ects we ors.)	re refer	red to t	he Dis	trict	45	25	18	35	123
(Th	ese defe Inspect	ng) ects we ors.)	re refer	red to t	he Dis	ivate	45	25	18	35	123
(Th	ese defe Inspect	ng) ects we ors.)	re refer	red to t	he Dis	ivate	137	178	18	157	123
(Th	ese defe Inspect	ng) ects we ors.)	re refer	red to t	he Dis	ivate					
(Th Number	ese defe Inspect of Case	ng) ects we cors.) es Visite	re refer	blic cases	he Dis	ivate	137 13 39	178 14 63	128	157	600 46 171
(Th Number	ese defe Inspect of Case	ng) ects we cors.) es Visite	re refer	blic cases n admiss emoval, n I room	he Dis	ivate	137 13 39 27	178 14 63 45	128 11 27 41	157 8 42 49	600 46 171 162
(Th Number	ese defe Inspect of Case	ng) ects we cors.) s Visite	re refer d:—(Pu cases o toria, r living i	blic cases n admiss emoval, n 1 room 2 room 3 ,, 4 ,,	the Dis	ivate ana-	137 13 39 27 36	178 14 63 45 31	128 11 27 41 21	157 8 42 49 21	600 46 171 162 109
(Th Number	ese defe Inspect of Case	ng) ects we cors.) es Visite	d:—(Pu cases o toria, r living i	blic cases n admiss emoval, n 1 room 2 room 3 ,, 4 ,, more tl	the Dissand prison to Sor death	ivate ana-h)	137 13 39 27	178 14 63 45	128 11 27 41	157 8 42 49	600 46 171 162
(Th Number	ese defe Inspect of Case	ng) ects we cors.) s Visite	d:—(Pu cases o toria, r living i """ where	blic cases n admiss emoval, n 1 room 2 room 3 ,, 4 ,, more tl	the Dissand prison to Sor death	ivate ana-h)	137 13 39 27 36 20	178 14 63 45 31 22	128 11 27 41 21 14	157 8 42 49 21 15	600 46 171 162 109 71
(Th Number	ese defe Inspect of Case	ng) ects we cors.) s Visite	d:—(Pu cases o toria, r living i """ where	blic cases n admiss emoval, n 1 room 2 room 3 ,, 4 ,, more tl	the Dissand prison to Sor death	ivate ana-h)	137 13 39 27 36	178 14 63 45 31	128 11 27 41 21	157 8 42 49 21	600 46 171 162 109
(Th	ese defe Inspect of Case	ng) ects we cors.) es Visite	d:—(Pu cases o toria, r living i "" "" "" "" "" "" "" "" "" "" "" "" ""	blic cases n admiss emoval, n 1 room 2 room 3 ,, 4 ,, more tl informat	the Dissand prison to Sor death	ivate ana- h)	137 13 39 27 36 20	178 14 63 45 31 22	128 11 27 41 21 14	157 8 42 49 21 15	600 46 171 162 109 71 41
(Th Number	ese defe Inspect of Case	ng) ects we cors.) es Visite " " " " eparate	re reference d:—(Pu cases o toria, r living i """, """, """, """, "", "", "", "", "	blic cases n admiss emoval, n 1 room 2 room 3 ,, more tl informat nable	the Distand prison to Sor death	ivate ana-h) ooms : ob ooms	137 13 39 27 36 20 2	178 14 63 45 31 22 3	128 11 27 41 21 14 14	157 8 42 49 21 15 22	600 46 171 162 109 71 41
(Th Number	ese defe Inspect of Case	ng) ects we cors.) es Visite " " " " eparate	re reference d:—(Pu cases o toria, r living i """, """, """, """, "", "", "", "", "	blic cases n admiss emoval, n 1 room 2 room 3 ,, more tl informat nable	the Distand prison to Sor death	ivate ana-h) ooms : ob ooms	137 13 39 27 36 20	178 14 63 45 31 22	128 11 27 41 21 14	157 8 42 49 21 15	600 46 171 162 109 71 41
(Th Number """ """ Patients Cases w	ese defe Inspect of Case	ng) ects we cors.) es Visite "" "" eparate "tient an	re reference d:—(Pu cases of toria, reliving in the case of the case	blic cases n admiss emoval, n 1 room 2 room 3 ,, more tl informat hable not sepa 1 rooms rs sleep i	he Dis	ivate ana- h) cooms cob- cob- cob- cob- cob- cob- cob- cob-	137 13 39 27 36 20 2	178 14 63 45 31 22 3 34 59	128 11 27 41 21 14 14 19 38	157 8 42 49 21 15 22 23 41	600 46 171 162 109 71 41 97 181
(Th Number	ese defe Inspect of Case	ng) ects we cors.) es Visite " " " " eparate	re reference d:—(Pu cases of toria, reliving in the second cases of toria, reliving in the second cases of toria, reliving in the second cases of toria, reference cases of to	blic cases n admiss emoval, n 1 room 2 room 3 ,, more tl informat nable	the Distand prison to Sor death	ivate ana-h) ooms : ob ooms	137 13 39 27 36 20 2 21 43 6	178 14 63 45 31 22 3 34 59 17	128 11 27 41 21 14 14 19 38 12	157 8 42 49 21 15 22 23 41 16	600 46 171 162 109 71 41 97 181 51

Tuberculosis History of Patients.

Number o	f patient	s who l	nave i	elatio	ns who	are i	ll or h	ave die	d of	
Phthi	sis									252
Number o	f relatio	ns of pa	tients	s who	are ill	or hav	e died	of Pht	hisis	486
Patients I	elieved	to have	contr	racted	Phthis	is thro	ugh co	ontact	with	
Phthi	sical per	son								24
Patients v	vho have	recent	ly had	d Pleu	risy					133
,,	,,	,	,	Pneu	monia					39
,,	,,	,	,	Negl	ected C	Colds				140
Patients v	vho have	had or	are l	having	Sanate	orium	treatm	ent		155
,,	,,	" Н	ospita	d trea	tment	other	than S	Sanato	rium	108
Number o	f yards s	suitable	for H	lome t	reatme	nt, e.g	., by S	Shelter	s	31

Occupation of Patients.

Trade or Occupation.	No.	Trade or Occupation. No.	Trade or Occupation.	No
Housewives	78	Brought forward 386	Brought forward	440
Scholars			Cooper	
Labourers			Draughtsman	1
Engineers	22	White Lead Workers 3 L	Dentist	1
Domestic Servants	100.0		loverness	i
Clerks	15		ournalist	-
Machinemen			eather Finisher	1
Shop Assistants	4.03		Lated Classes	1
Cartmen			1111	1
Hawkers	0		Lord State	1
Miners	0		Latter NI-L	i
Charwomen	0		anno dont	i
Barmen			11000	1
Riveters	12		latan	-
Tailors	-		Unakanan	i
Cabinet Makers	4		11	1
Dressmakers	2 1		tablaman	1
Joiners	200		tacking Knitton	1
Laundresses	4		ugan Dailan	1
Painters	4			1
Porters	4			1
Printers			ripe Preparer	1
Bakers	3		elegraphist	1
Bookbinders	-		Vinder (Armature)	1
Bricklayers	-			1
Electricians	3	D. I	Varehouseman	1
Moulders	3		and the state of t	74
Plumbers	3		ccupation Females 47	
Packers	3	Catala Daniel	ccupation (Males . 46)	62
Dolinomon	3	0-1-1-1	unknown Females 16	
	-	Conductor 1		
Carried forward	386	Carried forward 440	Total cases visited 6	300

Notices Prohibiting Spitting.—1,000 posters—"Do Not Spit"—were placed prominently on all the advertising stations in the City, and remained for one month.

SANATORIUM TREATMENT.

68 cases were admitted to the 20 beds maintained by the Corporation at Barrasford Sanatorium.

There were 121 applicants examined by the Sanatorium Medical Board, of whom 67 were passed and admitted, together with 1 passed in the previous year, and awaiting admission; 2 were passed, but had to await admission until the present year; 42 were rejected, 7 withdrew their applications, and the consideration of 3 was deferred.

Of the 72 patients discharged from the Sanatorium up to December 31st, 66 showed improvement of greater or less degree, 3 were not improved, 2 left prematurely, and 1 had died.

527 days' treatment stood to the credit of the Corporation to be carried forward to 1913.

BARRASFORD SANATORIUM.

MEDICAL REPORT ON NEWCASTLE CORPORATION CASES FROM 15th JANUARY TO 31st MARCH, 1912.

		0	9					
Progress under Treatment, and Remarks. RY, 1912.	Very fair progress. Capable of light household duties. Fair progress. Capable of light work.	Activity of disease—very marked on admission—much lessened by treatment	Has not done as well as his sister— also a Corporation case—who is now your well meanly two wears	after leaving here.	Left prematurely owing to further development of tuberculous disease. Good progress. Capable of work.	A severe case with throat lesion.	Activity of disease lessened. Capable of light work.	Good progress. Capable of work.
Gain in Weight. 5TH JANUA	11 lbs. 23	:	: ∞	24	lost 1 lb. 14 lbs.	#	lost ½ lb.	8 lbs.
Days under Treatment to Date of this Report.	32	12	56	33	6 88	40	89 22	47
	15 Feb., 1912 27 Jan., ,,	27	10 Feb. ,,	17	24 Jan.,		23 Jan., ., 30 Mar., .,	
Date of Admission. Date of Discharge. TREATMENT AT DATE OF LAST	14 Oct., 1911 28	28	11 Nov., "	.: ::	: :		2 Dec., ,,, 24 Feb., 1912	2 Dec., 1911
Address. CASES REMAINING UNDER	East Parade, Newcastle Hammond Street, Newcastle	eet,	Byker Bank, Newcastle	North View, Newcastle	Bothal Street, Newcastle, Trewitt Road,	Newcastle Shields Road, Newcastle	9	Sidney Grove, Newcastle
Patient's Initials.	Mrs. E. S Miss M. E. B.	T. B. T	F. G	н. с	J. G. H T. B	J. McD	L. J. M	T. P
No.	194	961	198	199	200	202	203	204

LE CORPORATION CASES FROM 15TH JANUARY TO 31ST MARCH. 1912.—Continued.	Days under Treatment Gain in Progress under Treatment, to Date of Weight.	OF LAST REPORT: 15TH JANUARY, 1912.	ar., 1912 75 19 lbs. Good progress. Capable of work.	, 73 19 ,, Good progress. Capable of work.	" 68° 12 " P		till in) 76 4 Good progress. Capable of work.	Do. 76 — Good progress. Capable of work.	CORPORATION CASES ADMITTED FROM THE 15TH JANUARY TO 31ST MARCH, 1912.	ar., 1912 70 11 lbs. Left prematurely owing to calls of business; good progress, capable	71 3 ,, Good progress.	3	till in) 64 14 lbs. Good progress. Capable of work.	Do. 64 12 ,, Doing well.
ES FROM 15TH JANUARY TO 31ST MARCH.		DATE OF LAST REPORT: 15TH JANUARY, I	19 lbs.	73 19	68 12	-	.: 4	76	S ADMITTED FROM THE 15TH JANUARY TO	11 lbs.		3	14 lbs. G	12 ;;
E CORPORATION CAS	Date of Admission. Dat	TREATMENT AT DA	23 Dec., 1911 30	28 ., ,, 28	11 Jan., 1912 23	11 ,, ,, 16	13	13	CORPORATION CASES	20 Jan., 1912 30	20 ,, ,,	20 ,, ,, 23	27	27
MEDICAL REPORT ON NEWCASTLE	Address.	CASES REMAINING UNDER	Hawick Crescent,	Asi	Avondale Road,	Kin	Conyers Road,	Jan	MEDICAL REPORTS ON NEWCASTLE	Back Hammond Street Newcastle	Les	Atkinson Road,	Byron Terrace,	Melbourne Street, Newcastle
Medica	Patient's Initials.		F. P	F. H. W	W. J. J	N. F. B	L. L	J. B	MEDICAL	c. G	Miss M. S	T. S	A. L	Miss A. T
	No.		202	206	207	208	209	210		211	212	213	214	215

is making Activity of the disease slowly lessen-Good progress; capable of work. Progress under Treatment, and Remarks. A severe, acute case; Little progress as yet. Very fair progress. Very fair progress. slight progress. Some progress. Good progress. Good progress. Good progress. Good progress. Good progress. Fair progress. CASES ADMITTED FROM THE 15TH JANUARY TO 31ST MARCH, 1912.-Continued. weighed 5 lbs. lbs. Gain in Weight. + . 5 : -Not HO 01 10 13 01 4 6 12 9 10 Days under Treatment to Date of this Report. 22 22 15 20 50 43 36 36 36 59 29 29 22 Date of Discharge. (still in) Do. Date of Admission. 27 Jan., 1912. 2 * 2 Mar., 10 Feb., : 9.0 : 24 24 01 01 6 6 6 9 17 24 Middle Street, Walker Pitt Street, Newcastle North View Terrace. Langhorn Street, Paces Buildings, Goldspink Lane, Prudhoe Place. Stanton Street, Address. Stepney Lane, Newcastle Newcastle Newcastle Newcastle Newcastle Newcastle Newcastle Newcastle Belsay Place, Newcastle College Yard, Newcastle Benson Road, Diana Street, Newcastle : : : : 1 : B Patient's Initials. Mrs. M. E. E. B. Miss M. B. Mrs. C. B. Miss I. P. Mrs. I. B. E. H. H. C. W. L. C. W. A. D. T. S. Mrs. J. R. J. R. 216 218 225 227 217 224 220 221 222 No.

CASES ADMITTED FROM THE 15TH JANUARY TO 31ST MARCH, 1912.—Continued.

		72	
		36	12 2 1
Progress under Treatment, and Remarks.	Good progress so far.	SUMMARY OF CASES SUBMITTED TO MEDICAL BOARD. Applications received Passed and admitted as above 22 Less—Applicant passed and awaiting admission as per last analysis 1	111
Gain in Weight.	Not yet weighed. Do. Do.	su Applicat Pas L	Rej. Witt Def
Days under Treatment to Date of this Report.	∞ ∞ ∞ −	1,421 929 492 51	243
Date of Discharge.	(still in) Do. Do.	Total	
Dave under Date of Discharge. Treatment Gain in to Date of Weight, this Report.	23 Mar., 1912 23 23	e discharge of or	th payment is due
Address.	Crawhall Road, Newcastle Bolam Street, Newcastle Elswick Road. Newcastle Shuttleworth Street, Newcastle	Less—Balance in hand from last Report	Number of days to 31st March, 1912, for which
Patient's Initials.	J. R	s—Balance in har	mber of days to
No.	229 230 231 232	Les Ada	N

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

36

10th April, 1912.

BARRASFORD SANATORIUM.

MEDICAL REPORT ON NEWCASTLE CORPORATION CASES FOR QUARTER ENDING 30TH JUNE, 1912.

Progress under Treatment, and Remarks.	кси 1912.	A	work well here. A chronic case with much disease which has nevertheless quickly	and continuously improved capable of work.	Very good progress though no slight		A severe complicated case with very slow improvement.	×	Improvement more in general than in pulmonary condition.	The same.	A chronic case with facial lupus.
Gain in Weight.	31ST MA	4 lbs.	1 ,,	4	11	51	-	15 ,,	7	18 ,,	5
Days under Treatment to Date of this Report.	REPORT:	13	13	19	26	25	27	41	41	48	55
Date of Admission. Date of Discharge.	DATE OF LAST REPORT: 31ST MARCH 1912.	13 April, 1912	13 ,, ,,	19 ,, ,,	26 ,, ,,	4 May, ,,	27 April, "	11 Мау. "		81	25 ,, ,,
Date of Admission.	TREATMENT AT	13 Jan., 1912	13 ,, ,,	20 ,,	27 ,, ,,	27	27 ,, ,,	10 Feb., ,,	01	17 ,, ,,	24 ., ,,
Address.	CASES REMAINING UNDER	S	Janet Street, Newcastle	Miss M. S Leazes Terrace,	Newcastle Byron Terrace, Newcastle	Me	Goldspink Lane, Newcastle	Stanton Street,	Dia	Middle Street,	Bel
Patient's Initials.		L. L	J. B	Miss M. S	214 A. L	Miss A. T	C. W. R	A. D	218 Miss I. P	Miss M. B	J. R
No.		209	210	212	214	215	216	217	218	219	220

MEDICAL REPORT ON NEWCASTLE CORPORATION CASES FOR QUARTER ENDING 30TH JUNE, 1912.—Continued.

Cases Remaining under Treatment at College Yard, Newcastle Pitt Street, Newcastle 24 Benson Road, 2 Mar., Newcastle 2 Newcastle Langhorn Street, 9 Newcastle Paces Buildings, 9 Paces Buildings, 9 Newcastle Crawhall Road, 23 Newcastle Road, 23 Newcastle Crawhall Road, 23 Newcastle Crawhall Road, 23 Newcastle Crawhall Road, 23 Newcastle Crawhall Road, 23	Day		Description of Propagator
J. R College Yard,		Treatment Gain in to Date of Weight. this Report.	Frogress under readment, and Remarks.
J. R College Yard, Newcastle Mrs. I. B Pitt Street, Newcastle T. S Stepney Lane, Newcastle Mrs. M. E. B. Langhorn Street, Mrs. C. B Paces Buildings, J. R Crawhall Road, T. T Crawhall Road, Newcastle J. R Crawhall Road, Newcastle T. T Bolam Street, Newcastle T. T Bolam Street, Newcastle T. T Bolam Street, Newcastle	DATE OF LAST RE	REPORT: 31ST MARCH, 1912	, 1912.
Mrs. I. B. Ditt Street, Newcastle 24 " 2 W. L. Newcastle 2 " " T. S. Stepney Lane, Newcastle 2 " " E. H. H. North View Terrace, Newcastle 2 " " B. H. H. Norwcastle 9 " " Mrs. M. E. B. Langhorn Street, Daves, Newcastle 9 " " Mrs. C. B. Newcastle 9 " " J. R. Newcastle 9 " " J. R. Newcastle " " " T. T. Bolam Street, Newcastle 23 " "	May, 1911	55 19 lbs.	Very good progress. Employed here on outdoor painting.
W. L. Benson Road, 2 Mar., 3 Newcastle 2 3 E. H. H. North View Terrace, 2 R. H. H. North View Terrace, 2 Newcastle 9 Mrs. B. B. Daces Buildings, 9 Mrs. C. B. Prudhoe Place, 9 J. R. Newcastle J. R. Newcastle T. T. Bolam Street, 23 Reweastle 23 22	:	53 10 ,,	Improvement more in general than in lung condition.
T. S Stepney Lane, 2 3 Newcastle E. H. H North View Terrace, 2 Newcastle Mrs. M. E. B. Langhorn Street, 9 Newcastle Mrs. C. B Paces Buildings, 9 Newcastle J. R Crawhall Road, 23 2 Newcastle T. T Bolam Street, 23 2 Newcastle T. T Bolam Street, 23 2	lune, ,,	62 17 ,,	Very good progress, capable of re- suming occupation.
E. H. H North View Terrace, 2 Newcastle Mrs. R. B. Langhorn Street, 9 Newcastle Mrs. C. B Paces Buildings, 9 Newcastle J. R Crawhall Road, 23 Crawhall Road, Newcastle T. T Bolam Street, 23 2 Newcastle Newcastle A. Rewcastle Newcastle Ne	Apr., "	30 19 .,	Improvement in the short time here. Dismissed.
Mrs. M. E. B. Langhorn Street, Langhorn Street, Newcastle 9 ., ., . 8 Mrs. E. B. Newcastle 9 ., ., . 8 Mrs. C. B. Newcastle 9 ., ., . 8 J. R. Crawhall Road, Newcastle 23 ., ., ., . 22 T. T. Bolam Street, Newcastle 23 ., ., ., . 22 T. G. Newcastle 23 ., ., ., . 22	lune, ,,	63 7 ,,	Very good progress. Employed here on outdoor work.
Mrs. E. B. Daces Buildings, 9 8 Mrs. C. B. Newcastle 9 8 J. R. Crawhall Road, 23 22 Newcastle 23 22 T. T. Newcastle 23 22 Newcastle 23 22	:	69 lost weight	A serious case that improved none.
Mrs. C. B Prudhoe Place, 9 ,, ,, 8 Newcastle J. R Crawhall Road, 23 ,, ,, 22 Newcastle T. T Bolam Street, 23 ,, ,, 22 Newcastle	:	69 22 lbs.	Some improvement.
J. R Crawhall Road, 23 ,, ,, 22 Newcastle T. T Bolam Street, 23 ,, ,, 22 Newcastle 23 ,, ,, 22		69 lost weight	No improvement.
T. T Bolam Street, 23 ,, ,, 22 Newcastle 23 ,, ,, 22		83 8 lbs.	An advanced case but improved. Fit for insurance work.
T O T Eleminal Dond	:	83 17	Good improvement; fit for light work.
Newcastle	: :	83 20 ,,	Very good progress; fit for work on pit-bank.
232 J. B Shuttleworth Street, 30 ,, ,, 29 ,, Newcastle	:	90 20 ,,	Very good progress; fit for work.

CASES ADMITTED DURING THE QUARTER ENDING 30TH JUNE, 1912.—Continued.

Progress under Treatment, and Remarks.	Very good progress. On full exercise.	Disease only sub-quiescent. For- merly had tuberculous disease	elsewhere. Progress slow.	Good progress and throat better.	Good progress but for slight relapse as to the emphyema he formerly	had. Slow progress.	Very good progress. On full exercise.	The same.	Highly neurotic; left owing owing	to inability to settle down. The same. Her mother begged her	in vain to stop. Is doing well,	Good progress and now on walking	exercise. The same.	The same.
Gain in Weight.	8 lbs.	9	13 ,,	18 ,,	12 ,,	6	11	14 ,.	,1	1	7 lbs.	6	.: 6	3
Days under Treatment to Date of this Report.	85	82	71	17.	64	64	90	36	9	7	22	15	15	œ
Date of Discharge.	(still in)	(still in)	(still in)	(still in)	(still in)	(still in)	(still in)	(still in)	12 June, 1912	91	(still in)	(still in)	(still in)	(still in)
Date of Admission. Date of Discharge.	6 April, 1912	: 9	20 ,, ,,	20 ,, ,,	27	27	11 May, "	25	6 June, "	8	91	91	91	22 ,, ,,
Address.	Mo	Loadman Street, Newcastle	Welbeck Road,	ce Station,		Mill Lane, Newcastle	Callerton Place,	Rosedale Terrace,	CIS	Rai	Grace Street,	Albion Row, Newcastle	eet,	Farndale Road, Newcastle
Patient's Initials.	Mrs. M. M	234 G. W. C	R. C	A. E. L	237 R. H. L	T. T	I. B	240 J. T. H	241 D. F	Miss L. R	Mrs. M. B	244 P. McI	J. J	246 A. A
No.	233	234	235	236	237	238	239	240	241	242	243	244	245 J. J.	246

CASES ADMITTED DURING THE QUARTER ENDING 30TH JUNE, 1912.—Continued.

12	Patient's Initials.	Address.	Date of Adm	nission.	Date of Admission. Date of Discharge.	Days under Treatment to Date of this Report.	Gain in Weight.	Progress under Treatment, and Remarks.	
77	247 J. H. L	Stanhope Street,	22 June, 1912	1912	(still in)	00	4 lbs.	Good progress.	
W. B.	3.	Newcastle Sutton Street,	22 ,,	:	(still in)	00	4 ::	The same.	
- 00	Miss E. M. A.	Newcastle Buddle Street,	24	:	(still in)	9	1	Is improving a little.	
90	Miss M. K	Car	24 ,,	:	(still in)	9	ı	Good progress.	
00	MissM.E.McG.	Newcastle Beech Street,	24 ,,	2	(still in)	9	1	Good progress.	
252 T. R.		Ash Street, Newcastle	29 ,,	:	(still in)	1	Ī		
					Total	1,760		SUMMARY OF CASES	
6	vance for	Add-Allowance for time clapsing between the	discharge	of one	discharge of one Patient and		as	SUBMITTED TO MEDICAL BOARD.	
=	e admission	the admission of another, 3 days each, 24 Patients	24 Patients		:	72	Applicat		38
						1,832	Pas Rej	Passed and admitted as above 20 Rejected 13	
63	of days fo	Total number of days for 20 Patients for Quarter ending 30th June, 1912	ending 30th	June,		1,820	Wit	Withdrawn 4	
	Excess for	Excess forward to next Quarter	:	1	1	12	Def	Deferred 1	38
						The real Property lies, the least of the lea			1

6th August, 1912.

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

BARRASFORD SANATORIUM.

Medical Report on Newcastle Corporation Cases for Quarter ending 30th September, 1912.

Progress under Treatment, and Remarks.	1912.	Very fair progress.	General condition slightly improved,	but not otherwise. Fair progress.	Improved; but disease not yet	quiescent. Good improvement,	Improved; but more in general than	in pulmonary condition. Very good progress,	The same.	Very great improvement.	The same.	Improvement rather more in general	than in pulmonary condition. Very good progress.
Gain in Weight.	30тн JUNE, 1912.	8 lbs.	2 ,,	., 6	15 ,,	12	14 ,,	21	61	24 ,,	17	28 ,,	:
Days under Treatment to Date of this Report.		9	9	20	48	27	27	+	55	69	92	71	83
	DATE OF LAST R	6 July, 1912	9	20 ,, - ,,	17 Aug., .,	27 July, "	27 ,, ',,	10 Aug., ,,	24 ,, ,,	7 Sept.,	14	., ,, 6	1
Date of Admission. Date of Discharge.	TREATMENT AT DATE OF LAST REPORT:	6 Apr., 1912	9	20 ,, ,, 2	20 ,, ,, 1	27 ,, ,, 2	27 ,, ,, 2	11 May, " 1	25 ,, ,, 2	8 June, "	15 ,, ,, 1	15 ,, ,,	2 21
Address. D	CASES REMAINING UNDER T	Mrs. M. M Morton Street, Byker	Loadman Street, Newcastle	Welbeck Road,	East End Police Station,	Conyers Road, Newcastle	Mill Lane, Newcastle	Callerton Place, Newcastle	Rosedale Terrace,	Grace Street, Newcastle	Albion Row, Newcastle	Mansfield Street,	Fai
Patient's Initials.		Mrs. M. M	G. W. C	R. C	236 A. E. L	R. H. L	T. T	I. B	J. T. H	Mrs. M. B	P. Mcl	J. J.	246 A. A
No.		233	234	235	236	237	238	239	240	243	244	245	246

Activity of the disease still present, although less than on admission.

The same.

:

24

29

still in)

*

13

Blenheim Street,

G. L.

254

Newcastle

.

=

79

(still in)

..

++

13

Canterbury Street,

Miss M. M. H.

255

Byker

Improvement more in general than in lung condition. Great improvement, but needs, like so many others, change of occupa-A temporary improvement effected. Progress under Treatment, and Remarks. MEDICAL REPORT ON NEWCASTLE CORPORATION CASES FOR QUARTER ENDING 30TH SEPTEMER, 1912.—Continued. Very good progress. Great improvement. Great Improvement. Good progress. tion (florist). CASES REMAINING UNDER TREATMENT AT DATE OF LAST REPORT: 30TH JUNE, 1912. SEPTEMBER, 1912. Ibs. lbs. Gain in Weight. -: : . : 14 20 01 14 17 13 7 Days under Treatment to Date of this Report, QUARTER ENDING 30TH 83 83 82 85 06 29 22 Date of Discharge. 21 Sept., 1912 : . : (still in) 22 July, 23 Sept 2 23 28 21 CASES ADMITTED DURING THE Date of Admission. 22 June, 1912 13 July, 1912 11 13 ÷ : -22 24 24 24 53 Ash Street, Newcastle Stanhope Street, Address. Sutton Street, Buddle Street, Carliol Street, Newcastle Carville Road, Newcastle Newcastle Newcastle Beech Street, Newcastle Newcastle MissM.E.McG. Miss E. M. A. Patient's Initials. Miss M. K. J. H. L. ë ä (S) N. T. 5 249 250 253 251 252 N.

CASES ADMITTED DURING THE QUARTER ENDING 30TH SEPTEMBER, 1912.

No.	Patient's Initials.	in s.	Address,	Date of	Admission.	Date of Admission. Date of Discharge.	Days under Treatment to Date of this Report.	Sail We	Gain in Weight.	Progress during Treatment, and Remarks.
256	J. O'N.	:	Whitfield Road, Scotswood	20 Ju	20 July, 1912	22 Aug., 1912	33	90	lbs.	A temporary improvement effected.
257	J. H.	:	Aln	25 ,,	-	(still in)	67	16	:	A case with a long history. Pro-
258	F. R. W.	:	Farndale Road, Newcastle	27 ,,	:	(still in)	65	17	:	gress on the whole, good. Disease not yet quiescent.
259	W. M.	:	Elswick Street, Newcastle	27 ,,	=	(still in)	65	24	:	A throat case. Considerable improve-
260	Mrs. R. H.	:	Raby Street, Byker	27 ,,		(still in)	65	∞ .	2	Considerable improvement.
261	W. A.	:	Strathmore Crescent, Newcastle	3 Aug.,	ž., ,,	(still in)	92	7	2	Great improvement, maintenance of which depends on care after dis-
262	W. C.	:	Tynemouth Road, Newcastle	8 ,,	:	(still in)	28	1		charge. Disease not yet quiescent.
263	L. L.	1	Conyers Road, Newcastle	8		(still in)	99	4		Considerable improvement.
264	S. B.	:	Osborne Road, Newcastle	00	£	(still in)	53	10	:	The same.
265	J. E.	:	Wingrove Avenue, Newcastle	17 ,,	:	(still in)	44	9	:	Disease not yet quiescent.
266	J. G. K.	:	Northern Counties Club, Newcastle	17 ,,	:	(still in)	#	10	:	Great improvement.
267	G. C. W.	:	Rosewood Crescent, Walker Gate	24	2	(still in)	37	14	:	Considerable improvement.

CASES ADMITTED DURING THE QUARTER ENDING 30TH SEPTEMBER, 1912.—Continued.

					80			
Progress under Treatment, and Remarks.	Left early owing to home-sickness.	Improved, but a severe case.	Improved.	No improvement as yet.	SUMMARY OF CASES SUBMITTED TO MEDICAL BOARD.	Applications received 34	dmitted as above	Awaiting Admission 1
Gain in Weight.	l Le	9 lbs. Im	8 Im	No	SUBMIT	Applications	Passed	Rejected Awaiting Adn
Days under Treatment to Date of this Report.	10	37	53	53		72	2,026	1,840
Date of Discharge.	3 Sept., 1912	(still in)	(still in)	(still in)	Total 12	3		
Date of Admission. Date of Discharge.	24 Aug., 1912	24 ,.	7 Sept., ,,	7 ,.	he discharge of nother, 3 days			its for Quarter
Address. Date of Admission. Date of Discharge. The Address Weight.	Walker Road, Walker	Grove Street, Newcastle	Northbourne Street, Newcastle	Sopwith Street, Newcastle	ard from last Q elapsing betwee the admission	urients		Deduct Total Number of days for 20 patients for Quarter ending 30th Septemper, 1912
Patient's Initials.	268 H. H	W. H. L	T. N	W. M	d Excess brought forward Allowance for time	cacii, 20 r		educt Total Nun
No.	268	269	270	271	Aa			De

GEORGE HARE PHILIPSON, Knight, Chairman, O. W. OGDEN Hon. Secretary.

34

1,840

Excess forward to next Quarter

BARRASFORD SANATORIUM.

MEDICAL REPORT ON NEWCASTLE CORPORATION CASES FOR QUARTER ENDING 31ST DECEMBER, 1912.

	nt.		morrhage e is nov	improve an in lung	condition	120		in throa		careful o arge.	
	Progress under Treatment, and Remarks.	30тн Sерте мвек, 1912.	Did well until getting a hæmorrhage, the effects of which he is now	Snaking our. Fairly good progress, but improve- ment more in general than in lung	condition. Improvement in general condition only.	Considerable improvement.	Considerable improvement.	Excellent progress both in throat and lungs.	Considerable improvement.	Great benefit if he will be careful of his way of life after discharge.	Slight improvement only.
-		PTE MB		H	1	0	Ö	Ш	O.	9	S
	Gain in Weight.	тн SE	8 lbs.	27 ,,	11	00	19 ,,	34 ,,	11 ,,	., 61	-401
	der of ort.			-							
	Days under Treatment to Date of this Report.	REPOR	92	12	12	92	92	26	26	33	00
	charge.	LAST	(u	1912	:	(i	(u	1912	:	:	:
	Date of Admission. Date of Discharge.	DATE OF LAST REPORT:	(still in)	12 Oct., 1912	12 ,,	(still in)	(still in)	26 Oct., 1912	26 ,,	2 Nov.,	8 Oct.,
	ission.		1912	:	:	:		:	:	:	:
	ate of Adn	REATME	13 July, 1912	13 ,,	13 ,,	25 ,,	27 ,,	27	27 ,,	3 Aug.,	:
	Q	IDER T	_		_		64	64	0.4		
	Address.	CASES REMAINING UNDER TREATMENT AT	Carliol Street, Newcastle	Blenheim Street Newcastle	Miss M. M. H. Canterbury Street,	Alma Street, Newcastle	Farndale Road, Newcastle	Elswick Street, Newcastle	Raby Street, Byker	Strathmore Crescent, Newcastle	Tynemouth Road, Newcastle
	nitials.			:	M. H.	:		:	:	:	
	Patient's Initials.		J. S.	G. L.	Miss M.	J. H.	F. R. W.	W. M.	Mrs. H.	W. A.	W. C.
	No.		253	254	255	257	258	259	260	261	262

Medical Report on Newcastle Corporation Cases for Quarter ending 31st December, 1912.—Continued.

											ies at	throat
Progress under Treatment, and Remarks.	30тн Septe мвек, 1912.	Much improved.	Considerable improvement.	Considerable improvement.	Great improvement.	Disease rather obstinate.	Great improvement.	Great improvement.	(Died).	112.	Had to leave owing to difficulties at her home.	Excellent progress both in throat and lungs.
in ibt.	SEPTE	ps.	;			,,	:	:		ER, 19		bs.
Gain in Weight.	30тн 8	7 lbs.	œ	00	14	25	12	14	4	ECEMB	1	23 lbs.
Days under Treatment to Date of this Report.	REPORT:	33	00	22	47	92	00	92	6	QUARTER ENDING 31ST DECEMBER, 1912.	30	08
charge.	LAST	1912	:	33	:	(u	1912	(u	1912	R ENDI	1912	(i)
Date of Admission. Date of Discharge.	DATE OF LAST	2 Nov., 1912	8 Oct.,	22 ,,	16 Nov.,	(still in)	8 Oct., 1912	(still in)	9 Oct., 1912	QUARTE	4 Nov., 1912	(still in)
nission.	NT AT	1912	:	9.9		: :		**	:	NG THE	912	:
Date of Adn	TREATMENT AT	3 Aug., 1912		17 ,,	17	24 ,,	24 ,,	7 Sept.,	7	red DURI	5 Oct., 1912	12 ,,
Address. I	CASES REMAINING UNDER	Conyers Road, Newcastle	Ost	Wil	Northern Counties Club, Newcastle	Rosewood Crescent,	Walkergate Grove Street, Newcastle	No	Sopwith Street, Newcastle	CASES ADMITTED DURING THE	Mrs. G. D Bolam Street, Newcastle	George Street, Newcastle
iitials.		:	:	:	:	:	1	:	-		: :	:
Patient's Initials.		L. L.	Miss S. B.	J. E.	J. G. K.	G. C. W.	W. H. L.	T. N.	W. M.		Mrs. G. D	J. J. G.
No.		263	264	265	266	267	269	270	271		272	273

CASES ADMITTED DURING THE QUARTER ENDING 31ST DECEMBER, 1912.—Continued.

						83	
	Progress under Treatment, and Remarks.	Improvement slow.	No improvement; not fit to be dis- charged.	Some improvement.	Good progress.	Good progress.	SUMMARY OF CASES SUBMITTED TO MEDICAL BOARD. Applications received 13 Passed and admitted as above 7 Less Passed in last Quarter 1 Rejected 3 Withdrawn 1 Deferred 1 Passed and awaiting admission 2
	Gain in Weight.	11 lbs.	: «	+	: &	7 .:	su Applicat Pas L Rej Witt Def Pas
	Days under Treatment to Date of this Report.	08	99	99	38	24	225 1,313 1,840
	Date of Discharge.	(still in)	(still in)	(still in)	(still in)	(still in)	38 88
2	Date of Admission. Date of Discharge.	12 Oct., 1912	26 ,, ,,	26 ., ,,	23 Nov., "	7 Dec., "	ne discharge of mother, 3 days
	Address.	Victoria Street, Newcastle	Am	Beresford Road, Byker	Richard Street, Newcastle	Fuller Road, Byker	Days under Treatment to date of this Report Add Excess brought forward from last Quarter Allowance for time elapsing between the discharge of one Patient and the admission of another, 3 days each, 13 Patients Deduct Total Number of days for 20 Patients for Quarter ending 31st December, 1912
	Patient's Initials.	Mrs. N. F	J. E. U	Miss M. C. T.	J. W.	Miss I. R. F.	under Treatment to da d Excess brought forw: Allowance for time one Patient and each, 13 Patients
	No.	274	275	276	277	278	Days Add

GEORGE HARE PHILIPSON, Knight, Chairman.
O. W. OGDEN, M.D., Hon. Secretary.

527

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Number of days for which treatment has not yet been received

14th January, 1913.

DISINFECTION.

1,977 cases of notifiable and 336 of non-notifiable infectious disease have been inquired into by the special inspectors, and the houses or rooms connected therewith disinfected by spraying with formalin. In connection with cases of tuberculosis, 481 houses, including 969 rooms, were similarly disinfected.

In every instance the bedding and other infected articles were removed to the Disinfecting Station at the City Hospital, Walker Gate, and after sterilisation by steam, returned to the owners.

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

ARTICLES FR	OM CITY.	ARTICLES—HOSPITAL PROPERTY				
1912.	1911.	1912.	1911.			
28,440	21,861	4,187	4,874			

INFECTED ARTICLES DESTROYED AND REPLACED BY THE HEALTH DEPARTMENT.

			1912.	1911
Half Straw Mattresses	 	 ·	 66	34
Flock Bed	 	 	 1	

Orders for goods to the value of £1 18s. 9d. were also given in replacement of similar articles destroyed by order of the Medical Officer of Health.

Fluid disinfectant, in pint tins, and disinfectant soap, in pound bars, were given out free on the order of the special inspectors, for home use in connection with infectious disease. Every precaution was taken to ensure that the material so dispensed was properly and economically used.

Disinfectants Distributed.

FROM	INPECTION	OR S DISEASES.	For Phythisis.		
	FLUID. (1 pint tins)	SOAP. (1 lb. bars.)	FLUID. (1 pint tins.)	SOAP. (I lb. bars.)	
Health Department	1,270	1,033	630	352	
Corporation Yard, Benwell	270	270	60	60	
Corporation Yard, Walker	137	183	36	54	
TOTAL	1,677	1,486	726	466	

BACTERIOLOGICAL INVESTIGATIONS.

The following is a summary of the Bacteriological investigations carried out on behalf of the Health Department of the Newcastle Corporation by Professor H. J. Hutchens, at the University of Durham College of Medicine, Newcastle.

2,800 specimens were submitted for examination. The nature of the investigations, and the results obtained, were as follows:—

	Д ІРНТНЕВІА.				BERCULO PHTHISIS		ENTERIC FEVER.		
	Total.	Posi- tive.	Nega- tive.	Total.	Posi- tive.	Nega- tive.	Total.	Posi- tive.	Nega-
No. of Examina- tions	1,151	308	843	1,038	267	771	133	53	80

Water:-

	Total.	CLASS I. Satis- factory.	CLASS II. Doubtful.	CLASS III. Unsatis- factory.	CLASS IV. Bad.
No. of Examina- tions	192	44	96	43	9

Milk:-

	Organisn	ns, other than Bacilli.	Tubercle	Т	Tubercle Bacilli.		
	Total.	Satis- factory.	Unsatis- factory.	Total.	Tub. Bac. found.	Tub. Bac.	
No. of Examina- tions	180	138	42	106	11	95	

H. J. HUTCHENS,

Bacteriologist.

University of Durham College of Medicine, Newcastle-upon-Tyne, 27th February, 1913.

BOVINE TUBERCULOSIS, AND THE INSPECTION OF MEAT AND PROVISIONS

(VETERINARY INSPECTOR).

FOOD AND DRUGS

(INSPECTOR OF NUISANCES).

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AND THE INSPECTION OF MEAT AND PROVISIONS, AND FOOD AND DRUGS.

TUBERCULOUS MILK.

106 samples of milk, collected by the Assistant Inspectors of Nuisances were examined by the Bacteriologist for the presence of tubercle bacilli, and in 11 instances the milk was found to be infected, as shown in the report of the latter, above.

The details of the action taken in each case are as follows:—

Identification No.

- 178. Wigton.—Sample collected January 24th. The Dairy Company in the City from whom the milk was obtained immediately stopped the supply, and arranged for the testing of the herd with tuberculin. Of 63 cows tested, 8 reacted and 1 was suspicious. These animals were removed from the herd and the cowsheds disinfected. Check samples collected at the Dairy after the removal of the affected animals were found free from tubercle bacilli.
- 184. Lockerbie.—Sample collected February 7th. The Dairy Company stopped the supply, and under the supervision of their manager the cows were tested. As a result, 13 cows were excluded from the herd as reacters, or as being suspicious.

Identifica-

- 39. Racks, Dumfriesshire.—Sample collected September 11th. The Medical Officer of Health for Dumfriesshire was communicated with. The herd was tested with tuberculin and several cows excluded. Further samples of the milk were then taken and on examination found to be free from tubercle bacilli.
- Newcastle.—The sample was collected on October 16th, 46. at a cowkeeper's premises in the City. The cows were examined by the Veterinary Officer, but only two were found suspicious. Samples of milk from these and from the mixed milk of the herd were examined by means of inoculations into guinea pigs, but the result was negative. The cowkeeper, in addition to his milk business, is a dealer in cows, and about the time the tuberculous sample was obtained several animals had passed through the byres. In view of the negative result of the supplementary tests, it would appear that the tuberculous milk was from one of the latter, and the affected animal (unknown) is probably still producing milk somewhere, which is a serious danger to the consumers.
- 51. Brampton.—Sample collected October 23rd. County Medical Officer of Health for Cumberland was asked, if possible, to secure the testing of the cows with tuberculin. The dairyman in Newcastle in the meantime stopped the supply. After the lapse of four months no report as to the action taken had been received from the Cumberland authorities, though reminders were sent. Eventually the dairyman in the City received a certificate from the Royal Veterinary College that an inoculation test of the milk, after the removal from the herd of suspicious cows, shewed that there were no tubercle bacilli in A similar test of the milk by the City the milk. Bacteriologist also shewed no bacilli.

dentifica- tion No. 67.	Stocksfield.—Sampl	a polloated	Dogamban	4+1
01.	Stocks fieta.—Sampi	e conected	December	Tun.
69.	Low Row.—	,,	,,	4th.
71.	Acklington.—	,,	,,	11th.
73.	Burgh-on-Sands.—	,,	,,	11th.
75.	Hexham.—	,,	,,	18th.
76.	Blackhill.—	,,	,,	18th.

In each of these cases the County Medical Officer of Health concerned was communicated with, with a view to the herds being tested with tuberculin. The dairymen in Newcastle in the meantime seeing that the supplies were either stopped or sterilized before sale. Check samples, after the removal of suspicious cows, all proved negative, with the exception of No. 73, and in this case the check sample was also found to contain tubercle bacilli. The cows were afterwards again examined, with the result that some were removed from the herd. A further check sample has been taken, but the result is not yet known.

Report of the Veterinary Officer, Inspector of Meat, etc.

TO THE MEDICAL OFFICER OF HEALTH.

SIR,

I have the honour to present this my sixth annual Report to the Sanitary Authority for the City and County of Newcastle-upon-Tyne concerning the duties performed in my section of the Health Department during the year ending 31st December, 1912.

DISEASES OF ANIMALS.

During the year, eighteen outbreaks of scheduled contagious diseases, in which 126 animals were either affected or exposed to infection, occurred within the city, as compared with three outbreaks the previous year. Details of the various outbreaks will be found in my annual Report under the Diseases of Animals Acts.

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

There are 37 dairymen within the city who occupy 44 cowsheds on 37 premises, and possess a total of 465 milch-cows. 340 visits have been made to the cowsheds and dairies by the Inspectors during the past twelve months for the purpose of inspecting the buildings, utensils, etc., as to structural repair, sanitation, general cleanliness, etc.

During the year it has been found necessary, on several occasions, to direct the occupiers' attention to the dirty condition of not only the buildings but also the animals. Such cleansing requirements have been complied with, making legal proceedings unnecessary.

In some cases structural alterations have been carried out in regard to the cowsheds for the improvement of cubic capacity, light, ventilation, etc. Other premises requiring improvements are being dealt with.

During the year three milch-cows were found diseased, two of them being affected with Tuberculosis. In the latter cases the milk supply was stopped. In all cases the necessary cleansing and disinfection of the premises followed. Other abnormal conditions affecting the udder of dairy cattle have been dealt with from time to time, and samples of milk—four in number—have been drawn and submitted for inoculation into guinea pigs, but in each case with a negative result.

Owing to increased duties, due to the recent outbreaks of Foot and Mouth Disease and the frequent occurrence of outbreaks of other diseases scheduled under the Diseases of Animals Acts, it has been impossible to examine all the cows within the registered cowsheds for the detection of Tuberculosis—even once during the year.

Unless the dairy herds are subjected to veterinary examination at least once a month, the public can have no safeguard as to the wholesomeness of its milk supply. The new Tuberculosis Order of 1913 issued by the Board of Agriculture and Fisheries gives the necessary powers to the Veterinary Inspector of the Local Authority to deal with suspected cows, in order to determine whether or not they are:—giving tuberculous milk, suffering from tuberculosis of the udder, or are emaciated with tuberculosis. All that remains, in order to carry out inspection of the dairy herds to the extent its importance and urgency warrants, is the employment of adequate veterinary assistance.

MEAT, PROVISIONS, FISH, FRUIT, Etc.

During the year 1912, besides foreign meat and other foodstuffs, some 247\(^3\)4 carcasses of home-killed animals have been condemned and destroyed within the city as being unfit for human consumption as compared with 225 carcasses the previous year.

Of the $247\frac{3}{4}$ carcasses, $76\frac{3}{4}$ were condemned on account of tuberculosis.

During the year 1912, the number of cattle insured by the Newcastle, Gateshead and District Butchers' Association was 14,971½, being a decrease of 821 on the previous year. And

during the same period that Association paid to its members no less than £1,004 18s. 4d. as compensation in respect of claims for carcasses condemned on account of tuberculosis, that being exactly £250 17s. 5d. more than was paid for the same purpose the previous year.

Although the Association some time ago deleted the cowclass from their Insurance Scheme, another class known as the "Heifers of Class 2" has been retained at a serious loss to the Association, for during the year it was necessary to levy a call of £1 1s. 9d. per head on those heifers to clear that class of its liabilities. These animals, although termed heifers, are in reality cows that have borne either one or more calves. But, as they are presented at the market in such condition as to age, quality and appearance as would be termed prime, it would appear to be difficult—in many cases at least-for the butcher to distinguish them from pure heifers. Under these circumstances the Association have difficulties as to where to draw the line. The disease (tuberculosis) on the other hand has no difficulty in drawing the unseen line, for when these cows (Heifers Class 2) are slaughtered the post mortem findings generally show a larger percentage of them to be diseased than is the case regarding pure heifers. Such is just exactly what is to be expected, for cows have invariably been exposed during life to greater chances of infection.

Now that the principal of compensating the owner and producer of diseased cattle has been established by means of the Tuberculosis Order of 1913, and has been put into operation, that fact alone should be ample evidence to the meat traders in this country that the subject which has been barred—and honestly barred at that—against them at all times, has at last had an entrance for a just claim for consideration forced open. And that subject obviously is the "Warranty Question."

As soon as ever legislation compels the owners of farms to put their premises into a good, sound sanitary condition, so that animals may be reared under proper conditions, and sanction has been given to spend public money to deal with the disease in the living animal, and also to compensate the owners, then the meat traders will have a moral and ought to have a legal right to demand from the vendor a warranty with all apparently healthy cattle they purchase in the open market.

NUMBER OF VISITS AND INSPECTIONS OF PREMISES
DURING THE YEAR 1912.

-	Slaughter Houses.	Meat, &c., Market.	Fruit, &c., Market.	Fish Market.	Meat, Provision, Fruit, Fish, Wholesale and Retail Shops.	Cold Stores.	Sausage &c., Factories.	Goods Stations.	Wharves.	Knackers' Yard.
	10,071	582	579	849	904	43	114	11	436	12

FOREIGN MEAT,

During the year 1912 some 233 vessels carrying meat and other foodstuffs from South America, Denmark, Sweden, Norway, and other countries, arrived at the Quayside. Of these, 18 were large South American frozen meat boats. During the year 45 vessels were boarded and 436 visits to the wharves were made, and of the 2,297 casks and other packages containing meat, etc., opened, minute examinations were made in each case.

Numerous samples—particularly brine—have been taken during the year and submitted to the Public Analyst for analysis, and all have been found free from any harmful preservative.

Foreign Meat arriving by Rail.—The quantity of frozen and chilled meat arriving within the City appears—owing to new imports from Australia—to be slightly on the increase. Great improvements as to the condition of the carcasses when put on the market in this country have taken place in recent years. In many cases, although frozen meat has already travelled thousands of miles, the carcasses as placed in the shops in the City appear cleaner than many of those from animals actually slaughtered within the City.

Foreign Meat arriving by Vessels.—During the year 196 foreign fresh (unfrozen and unchilled) carcasses of beef

were imported, as compared with none last year. The consignments of fresh pork are much smaller than those of the previous year, whereas those of green bacon are larger by about 60,000 sides for the same period.

The consignments of frozen beef are much heavier, the lamb carcasses imported number about the same, whilst mutton carcasses are rather fewer in number as compared with the previous year.

It is with pleasure that I am able to acknowledge the courteous and prompt manner in which the Customs officials have, from time to time, reported the arrival of foreign meat vessels and their detention of certain foodstuffs for inspection and certification.

FOREIGN MEAT ARRIVING BY VESSEL AND LANDED AT THE NEWCASTLE-UPON-TYNE QUAYSIDE.

	Fresh.		
BEEF.	PORK.	MUTTON.	
Sides of Beef. 392 Casks. Cheeks 8 Udders 22 Meat 45 Offal 41	Carcasses 115 Sides (Green Bacon) 316,420 Casks. Feet 3,935 Maws 3,382 Tongues 200 Heads 4,641 Pork 16 Tails 8	Casks 28 Intestine 89	

			FR	OZEN.		
	В	EEF.		MUTTON.	LAME	
Hind-quar Fore-quar Flitches o	ters		 25,096 63,398 14	Carcasses 53,867	Carcasses	7,776
Hearts Tails Skirts Tongues Livers Kidneys Tripe Cheeks Suet			 Packages. 1,778 460 732 777 947 150 988 603 497	Legs 276 Loins 90 Shoulders 421 Heads 768 Kidneys 395		

- 84	OTHER	Goods		
	Smoked Sausage		Cases 60	
	Sweetbread		20	
	Hams		Casks 2	
	Beef	911	Tins 1,185	
	Beef Trimmings		Case 1	
	Mussels		Bags.	

The following packages of foreign meat and other foodstuffs were seized and destroyed in accordance with the Foreign Meat and Unsound Food Regulations:—

Putrefactiv	Unsound.				
Beef Trimming Mussels	gs 	 	Bags. 1 20	Biscuits Tomatoes	Tins 24 110
Cows' Udders Pig Maws		 B:	3		

The following were seized and re-exported at the senders' expense in accordance with the Foreign Meat Regulations:—

FOREIGN MEAT OF CLASS I. (SCRAP MEAT).

2 Boxes of Diaphragm.

Of all the meat and other foods seized and condemned on account of unfitness for human consumption, all were destroyed with the consent of the owner except the following, which were destroyed by order of a Justice of the Peace:—

Beef	 	 	 8	Quarters.
Pears	 	 	 10	Barrels.
Apples	 	 	 20	Stones.
Tomatoes	 	 	 110	Tins.

Cooked Meat. 40 lbs. Offal. 1700 18. 1111 CARCASSES, ETC., DESTROYED AS BEING UNFIT FOR HUMAN CONSUMPTION DURING THE YEAR 1912. Tripe. 59 lbs. Tongues. : : : .xO : : : : 15 Plucks. bik. : : Speep. : Kidneys 'Sid : Ox. : 01 Lungs. .xO Livers. 'xO : : : : : : 6 1:-1::: 00 Hearts. ·Sid : : .xO Heads. daaqs. 01 : ·xO : hd. qr. 9 7+154 Pork. Mutton. 10 lbs. 4 1 16 16 16 6 16 Carcasses. Veal. 11111 : ... 79 lbs. 67 + 23Beef. drs. Cirrhosis
EchinococcusHydatids Cysticercus
Tenuicollis Decomposition Tuberculosis Swine Erysipelas Congestion Imperfectly Bled Died in transit ... Putrefactive-Pleurisy Pericarditis Traumatism Pneumonia Pyæmia ... Abscesses Congestion Nephritis Cirrhosis Emaciaton

FRUIT, FISH, POULTRY, ETC., DESTROYED AS BEING UNFIT FOR HUMAN CONSUMPTION DURING THE YEAR 1912.

PROVISIONS.	Bacon - 5 tons.	Cheese - 9 lbs.	
VEG TABLES.		56 lbs. Carrots - 993 cwts. Cheese - 932 lbs. 32 lbs. 10 ,, 10 ,, 202 ,,	
FRUIT.		Dates 56 lbs. Carrots - 99 ² / ₄ cwts. Cherries. 64 baskets Celery-160 bunches Strawberries 532 lbs. Apples 406 ., Plums 10 ., Pears 702 .,	•
FISH.	Shell Fish. Other than Shell Fish.		Trout 1,819 lbs.
	Shell Fish. Prawns 370 lbs Mussels 2,702 ,, Crabs 224 ,, Oysters 56 ,,		
POULTRY, PIGEORS, AND GAME.	Rabbits 12 Turkey 12 Pigeons 18 Ducks 64 Hares 66 Geese 20		T
	Putrefactive Decomposition	Unsound	Unseasonable (unclean)

PROSECUTIONS DURING YEAR 1912.

For depositing within the city four quarters of beef (extensively diseased) which had been neatly stripped and so prepared as to give the outward appearance that of a healthy carcass, a butcher—residing some 60 miles from the city—was fined £5 and costs. For a similar offence concerning the deposit of four quarters of beef, a butcher and a farmer (both residing some 20 miles from the city) were each fined £10 and costs.

I have the honour to be, Sir,

Health Department,
Town Hall,
Newcastle-on-Tyne,
May 15th, 1913.

Your obedient Servant,
THOMAS PARKER, F.R.C.V.S.

Veterinary Officer,
Inspector of Meat, &c.

FOOD AND DRUGS ADULTERATION.

The total number of samples (of all kinds) obtained by the Inspector of Nuisances for analysis during the year was 931, against 881 in the previous year. For details see pages 102-9. Of this total, only 600 were submitted for analysis to the Public Analyst, the remainder being milk samples, which, on being tested in the offices of the Health Department, were found to be genuine. The number of milk samples taken was 636. 54 of these were certified to be below the standard fixed by the "Sale of Milk Regulations, 1901," and 1 contained an artificial colouring matter (viz., Annatto).

Of the total number of samples taken (931), 248 were collected "informally," chiefly through the agency of hired persons, viz.:—

1			
Butter		Blackcurrant Jam 1 Marmalade	1
Margarine	 30	Vinegar 13 Raspberry Jam	1
Lard		Mustard 4 Cream of Tartar	9
Baking Powder		Semolina 6 Tartaric Acid	
Ground Rice		Cream 2 Gregory's Powder	
Condensed Milk		Ground Almonds 3 Camphorated Oil	5
Ground Ginger	 7	Sugar 3 Sweet Spirits of	
Corn Flour	 6	Cocoa 3 Nitre	
Sago	 5	Tapioca 1 Tincture of Rhubarb	
Black Pepper	 5	Flour 4 Syrup of Rhubarb	
White Pepper	 6	Farola 1 Olive Oil	
Rice		Chicken and Ham Glycerine	4
Tea	 1	Paste 1 Paregoric	5
New Milk	1	Cheshire Cheese 1 White Precipitate	-
Coffee	 1	Golden Syrup 1 Ointment	1

The percentage of samples not genuine to the total number taken is 7.4 (compared with 9.4 for the previous year), and the percentage of milk samples below standard to the total number of milk samples obtained is 8.6 (as against 13.8 in 1911). The total number of samples taken is at the rate of 3.5 per 1,000 of the population (estimated) of the City for the year 1912.

Preservatives in Food.—Of the total number of samples taken for analysis (931), only 44 (or 4.7 per cent.) were certified to contain preservative. The articles in question being—Margarine (32), Butter (8), and Cream (4). The preservative, in each case, consisted of boric acid, and in all but one instance was within the limit allowed, the exception being a sample of Cream which contained 0.35 per cent. of boric acid, being in excess of the limit (0.25 per cent.) recommended by the Departmental Committee on Food Preservatives (1909). This being an informal sample, a subsequent sample, taken formally, contained only 0.14 per cent. of boric acid, and no further action was taken in the matter.

Cream.—Since the samples were purchased, new Regulations of the Local Government Board have come into force, prohibiting the addition of any preservative substance to Cream containing less than 35 per cent. of milk-fat, and requiring, in the case of Cream above that standard containing a preservative, that the receptacle be distinctly labelled to that effect.

Margarine Act, 1887.—34 samples of Margarine (included in the foregoing total) have been purchased and analysed. All were found to be genuine, except that 32 contained small quantities of boric acid (as above). In seven instances, samples were delivered to the purchaser in a paper not marked "Margarine" as required by the Act. See page 110.

Margarine Warehouses.—88 visits have been made to the margarine warehouses. No contravention of the law as to the marking of packages containing margarine was found.

FOOD AND DRUGS ADULTERATION ACTS.

Samples taken for Analysis during the Year 1912.

Articles taken for Analysis.	Total No. of samples taken.	Result of Analysis.	Rota- tionary No. of sample,	Proceedings taken and result.
New Milk	636	581 genuine.		
		1 deficient in milk-fat 3.3%, and in non-fatty solids 1.6%	33	Vendor cautioned.
- policialis		1 deficient in milk-fat 13:3%	53	From one vendor, who was summoned. Cases dis- missed on payment of costs. (The milk in
		1 deficient in milk-fat 10·0%	59	these cases was stated to have been supplied by the vendor of samples Nos. 58 and 66).
				From one vendor, who was summoned. Case dis- missed on payment of costs.
		1 deficient in milk-fat 20 0%	58	Appeal to Cow.—At the request of this vendor,
		1 deficient in milk-fat 6.6%	66	2 samples were taken at his farm, after seeing the cows milked. These samples proved to be genuine.
1		1 deficient in milk-fat 10·0%	61	From one vendor, who was cautioned. (Milk stated
		1 deficient in milk-fat 3.3%	71 ∫	to have been supplied by vendor of No. 70).
		1 deficient in milk-fat 5.0%	70	Vendor cautioned.
		1 deficient in non-fatty solids 5.4%	92	Subsequent sample genu- ine. Vendor cautioned.
		1 deficient in non-fatty solids 5:3%	99	Vendor summoned. Fined £5 and costs.
		1 deficient in milk-fat 3.3%	102	Subsequent sample genu- ine. Vendor cautioned.
		l contained an artificial colouring matter, viz., annatto.	107	Subsequent sample genu- ine. Vendor cautioned.
Carried forward	636	Amount of penalties carried forward		£5 0 0

FOOD AND DRUGS ADULTERATION ACTS .- Continued.

Samples taken for Analysis during the Year 1912.

Articles taken for Analysis.	Total No. of samples taken.	Result of Analysis.	Rota- tionary No. of sample.	Proceedings taken and result.
Brought forward	636	Amount of penalties brought forward		£5 0 0
New Milk (contd.)		1 deficient in milk-fat 6.6%	131	Subsequent sample genu ine. Vendor cautioned
		1 deficient in milk-fat 6.6%	186	Subsequent sample genuine. Vendor cautioned
		1 deficient in non-fatty solids 5.6%	187	Vendors summoned. Cas withdrawn on paymen of costs.
		1 deficient in milk-fat 10.0%	201	From one vendor, who wa cautioned (having re- cently been fined £5 an
		1 deficient in milk-fat 3.3%	207	costs respecting sampl
		1 deficient in non-fatty solids 5.8%	253	Subsequent sample genuine. Vendor cautioned
		1 deficient in non-fatty solids 4.9%	265	From one vendor, who was summoned. Cases dis missed on proof of war ranty, defendant payin costs. (Milk obtaine
		1 deficient in milk-fat 9.0%	278	from vendor of sampl No. 277.)
		1 deficient in milk-fat 10.0%	277	Vendor summoned. Cas dismissed on proof of warranty. (Milk ob- tained from vendor of No. 295.)
		1 deficient in milk-fat 33·3%	295	Vendor summoned. Cas- dismissed on proof of warranty. Note.—The giver of the warranty was subsequently pro- ceeded against, the cas- being dismissed on pay ment of costs.
Carried forward	636	Amount of penalties carried forward		£5 0 0

FOOD AND DRUGS ADULTERATION ACTS.—Continued.

Articles taken for Analysis.	Total No. of samples taken.	Result of Analysis.	Rota- tionary No. of sample	Proceedings taken and result.
Brought forward	636	Amount of penalties brought forward		£5 0 0
New Milk (contd.)		1 deficient in non-fatty solids 3.4%	303	From one vendor, who was summoned, Cases with drawn on payment o
		1 deficient in non-fatty solids 2·2%	311	from vendor of sample No. 341.)
		1 deficient in non-fatty solids 2·3%	341	Vendor summoned. Case withdrawn on payment of costs. (Milk obtained from vendor of No. 353.)
		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	353	Vendor summoned. Fined 10/- and costs.
		1 deficient in milk-fat 6.6% 1 deficient in milk-fat 4.0%	367	From one vendor, who was cautioned.
		1 deficient in milk-fat 10-0%	373	Subsequent sample genu- ine. Vendor cautioned.
		1 deficient in milk-fat 3·3%	378	Subsequent sample genu- ine. Vendor cautioned.
		1 deficient in milk-fat 16·6%	399	Vendor summoned. Fined 10/- and costs.
		1 deficient in milk-fat 30·0%	406	Vendor summoned. Fined 10/- and costs.
		1 deficient in non-fatty solids 2·3% 1 deficient in non fatty solids 0·5%	460 482	From one vendor. No action taken.
		deficient in milk-fat 10.0%	500)	From one vendor. Ex- planation accepted by
		deficient in milk-fat 1.6%	508)	Sanitary Committee. No action taken.
	-		551	From one vendor, who was summoned. Cases dis-
	1	deficient in milk-fat 20.0%	563	missed on proof of warranty.
forward	636	Amount of penalties carried forward		£6 10 0

FOOD AND DRUGS ADULTERATION ACTS.—Continued.

Articles taken for Analysis.	Total No. of samples taken.	Result of Analysis.	Rota- tionary No. of sample.	Proceedings taken and result.
Brought forward	636	Amount of penalties brought forward		£6 10 0
New Milk (contd.)		1 deficient in milk-fat 5.0%	622	Subsequent sample genu- ine. Vendor cautioned
		1 deficient in non-fatty solids 4.7%	636	Subsequent sample genu- ine. No futher action taken.
		1 deficient in non-fatty solids 3:3%	655	Subsequent sample genu- ine. No further action taken.
		1 deficient in milk-fat 3.3%, and in non-fatty solids	782	
		6.3% 1 deficient in non-fatty solids 4.8%	793	From one vendor, who was cautioned.
		1 deficient in non-fatty solids 9·1%	788	Subsequent sample genu- ine. Vendor cautioned
		1 deficient in non-fatty solids 15:3% 1 deficient in non-fatty solids 10:3%	868	From one vendor, who was summoned. Fined 20/ and costs in each case.
		1 deficient in non-fatty solids 9.4%	871	Subsequent sample genu- ine. Vendor cautioned
		1 deficient in non-fatty solids 2:3% 1 deficient in non-fatty solids 1:6%	874	From one vendor, who was cautioned.
		1 deficient in non-fatty solids 3:3% 1 deficient in non-fatty solids 2:6%	915 919	From one vendor, who was cautioned.
		1 deficient in non-fatty solids 3.5%	928	Subsequent sample genuine, Vendor cautioned
		1 deficient in non-fatty solids 1.9% 1 deficient in milk-fat 5.0%	929)	From one vendor, who was cautioned.
Carried forward	636	Amount of penalties carried forward		£8 10 0

FOOD AND DRUGS ADULTERATION ACTS .- Continued.

SAMPLES TAKEN FOR ANALYSIS DURING THE YEAR 1912.

_				
Articles taken for Analysis.	Total No. of samples taken.	Result of Analysis.	Rota- tionary No. of sample.	and result.
Brought forward	636	Amount of penalties brought forward		£8 10 0
Butter	54	53 genuine.		
QUE VERT		1 contained 100% of mar- garine. (Informal sample.)	51	Formal sample taken, which was genuine.
Gregory's Powder	3	2 genuine.		
		1 contained carbonate of magnesia instead of cal- cined magnesia, and was thus deficient in mag- nesia by about 50% (Informal sample.)	475	Formal sample taken, which was genuine.
Spirits of Nitre	9	6 genuine.		
		1 deficient in ethyl nitrite 30% (Informal sample.)	476	Formal sample obtained. (See No. 511.)
		1 deficient in ethyl nitrite 79%	511	Vendor cautioned.
Sweet Spirits of Nitre		1 deficient in ethyl nitrite 48.6% (Informal sample.)	754	Formal sample obtained, which was genuine.
Lard		17 genuine.		
	1	over 5.0% (Informal sample.) contained beef stearin over 10% (Informal sample.) contained beef stearin over 10% (Informal sample.)	443 444 444 486	The Town Clerk was in- structed to ask each of the vendors for an ex- planation as to the presence of the beef stearin in the lard.
Carried forward 7	723	Amount of penalties carried forward		£8 10 0

FOOD AND DRUGS ADULTERATION ACTS .- Continued.

Articles taken for Analysis.	Total No. of samples taken.	Result of Analysis.	Rota- tionary No. of sample.	Proceedings taken and result.
Brought forward	723	Amount of penalties brought forward		£8 10 0
Cream	4	1 genuine (except that it contained boric acid 0·16%). (Informal sample.)	566	Within the limit allowed. No further action taken.
		1 genuine (except that it contained boric acid 0.35%). (Informal sample.)	591	Formal sample obtained. (See No. 593.)
		1 genuine (except that it contained boric acid 0.14%).	593	Within the limit allowed. No action taken.
		1 genuine (except that it contained boric acid 0.16%).	594	Within the limit allowed. No action taken.
Coffee	2	1 genuine.		
		1 contained 46% chicory.	771	The mixture being "de- clared," no action was taken.
Malt Vinegar	13	12 genuine.		
		1 deficient in acetic acid 8.3% (Informal sample.)	824	Formal sample to be taken.
Sago	5	3 genuine.		
		1 consisted entirely of tapioca.	844	No action taken.
		1 consisted entirely of tapioca.	847	No action taken.
Blackcurrant Jelly	1	Contained very little, if any, blackcurrant, and had been made almost wholly from the juices of other fruits, chiefly gooseberry.	905	The Town Clerk was in- structed to send a letter of caution to the vendor, and to ask him for an explanation.
Carried forward	748	Amount of penalties carried forward		£8 10 0

FOOD AND DRUGS ADULTERATION ACTS.—Continued.

-	-			
Articles taken for Analysis.	Total No. of samples taken.	Result of Analysis.	Rota- tionary No. of sample.	Proceedings taken and result.
Brought torward	748	Amount of penalties brought forward		£8 10 0
Blackcurrant Jam	6			
Condensed Milk	10			
Margarine	34			
Cheshire Cheese	1			
Flour	4			
Ground Rice	10			4/
Semolina	6			
Corn Flour	6			
Baking Powder	10			
Ground Almonds	3	All genuine.		
Ground Ginger	7			
White Pepper	6			
Black Pepper	5			
Tapioca	1			
Farola	1			
Rice	1			
Теа	1		-	
Sugar	3			
Cocoa	3			
Marmalade	1			
Mustard	4			
Carried forward 8	371	Amount of penalties carried forward		£8 10 0

FOOD AND DRUGS ADULTERATION ACTS .- Continued.

Articles taken for Analysis.	Total No. of samples taken.	Result of Analysis.	Rota- tionary No. of sample.	Proceedings taken and result.
Brought forward	871	Amount of penalties brought forward		£8 10 0
Golden Syrup	1			
Raspberry Jam	1			
Chicken and Ham Paste	1			
Tincture of Rhubarb	5			
Syrup of Rhubarb	3			
Tartaric Acid	8			
Camphorated Oil	5			
Olive Oil	5	All genuine.		
Glycerine	4			
Cream of Tartar	9			
Paregoric	5			
White Precipi- tate Ointment	1			
Beer	6			
Rum	3			
Whisky	3)		
Total	931	Total amount of penalties		£8 10 0

FOOD AND DRUGS ADULTERATION ACTS.—Continued.

ACTION TAKEN WITH RESPECT TO OFFENCES OTHER THAN ADULTERATION.

Offence.	No. of Cases.	Proceedings taken, etc.
Margarine Act, 1887, Sec. 6.		
Margarine delivered to purchaser in paper not marked "Margarine."	7	In 2 cases vendors cautioned, and in 1 vendor summoned (having been prosecuted with regard to a similar offence in 1911). Fined 5/-and costs. Four were informal samples. In 1 case, a formal sample was obtained, and in this instance also the sample was handed to the purchaser in a paper not marked "Margarine" in accordance with the Act. No further action was taken. In 2 instances formal samples afterwards taken were properly labelled, and in the remaining case a further sample could not be obtained owing to the business being discontinued.
Sale of Food and Drugs Act, 1899, Sec. 9. Names and addresses of vendors not inscribed upon their milk-cans, etc.	9	In 8 cases the vendors were cautioned, and in the remaining case the vendor was summoned and fined 5/- and costs. (Defendant was the vendor of deficient milk sample No. 399.)
Total	16	Amount of penalties, £0 10 0

NUISANCES, HOUSING, FACTORIES AND WORKSHOPS,

ETC.

(INSPECTOR OF NUISANCES.)

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NUISANCES, HOUSING, FACTORIES AND WORKSHOPS, etc.

The following is the Report of the Inspector of Nuisances.

To the Medical Officer of Health.

SIR,

I beg to submit to you my fifth report of the work done in my section of the Health Department, viz., that for the year ended 31st December, 1912, which, together with the section on Food and Drugs Adulteration above, is as follows:—

The ever-increasing duties of the Inspectorial Staff have been faithfully carried out during the year. Although it is impossible to adequately describe, by means of tables of figures, every detail of the work done, the consequent sanitary improvements effected, etc., the information given in the various tables will shew, as far as it is possible to do so, the extent and nature of the work which has been carried on. A large number of houses has again been dealt with as unfit for habitation. This has occupied a considerable amount of the time, both of one officer, who for a considerable period was engaged specially upon this work, and of the District Inspectors in general.

NUISANCE ABATEMENT.

The total number of notices served during the year is 8,173, of which 7,686 were informal and 487 statutory.

Magisterial Proceedings.—It is again satisfactory to be able to state that in very few instances has it been necessary

to resort to legal proceedings in order to obtain the abatement of nuisances, &c. In the great majority of cases where official notices were not at once complied with, reminding letters or personal calls upon the persons concerned, resulted in the work required being carried out.

CONVERSIONS OF DRY CLOSETS.

The Inspector of Nuisances, with the energetic co-operation of his assistants, has, in addition to his other duties, been specially engaged during the year in securing the abolition of "dry" closets. In all, 611 such conveniences have been removed and replaced by water closets, against 361 in the previous year. Of this total (611), 259 were pail-closets, 56 midden-privies (chiefly in Benwell and Walker), and 296 "cell" privies (all in the two districts mentioned). In the Inspector's opinion, this is very satisfactory. The work is being continued, and the inspector is hopeful that his efforts will be equally successful during the present year. It is satisfactory for him to have to state that this work was accomplished in all but two instances without having to resort to legal proceedings. In addition to the numbers previously mentioned, 115 dry-ashpits have been removed, and replaced by ash-tubs or galvanised iron dustbins.

There is still in use in the City a large number of these so-called "dry" ashpits, (i.e. ashpits without privies attached). Some years ago, in order to induce owners to abolish these ashpits and substitute portable dustbins, the Sanitary Committee decided to supply the first "bin" free of charge, which practice is still carried out, 731 such dustbins having been given during the year in cases where ashpits, privies, &c., have been abolished. So far as the dry ashpits are concerned, it was hoped that greater advantage would have been taken of the Corporation's offer than has proved to be the case, as the substitution of dustbins is undoubtedly a great sanitary improvement. The Inspector's efforts in this direction will be continued during the year.

The following table, prepared by the Medical Officer of Health, shows the incidence of Enteric Fever in relation to the proportion of dry and water closets in the City, over a number of years:—

ENTERIC FEVER IN RELATION TO THE ELIMINATION OF THE CONSERVANCY SYSTEM OF DISPOSAL OF EXCRETA DURING THE LAST 22 YEARS

	CITY ENGINE	ER'S CENSUS OF	Enteric 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		
1911	7,959	47,681	87	0.33		
1912	7,166	48,788	91	0.34		

^{*} 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 6.8 in 1912.

SMOKE NUISANCE.

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

No. of chimneys watched.	No. of observations 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	No. of Prosecu- tions.	
	1	aggregate during one hour.		Informal.	Statutory	
88	143	15	40	14	_	_

OFFENSIVE TRADES.

The following are the numbers and classes of offensive trades carried on within the City:—

Specified in Section 112, Public Health Act, 1875.— Blood Boiler (0), Bone Boilers (3), Fellmonger (0), Soap Boilers (2), Tallow Melter (0), Tripe Boilers (8).

Declared by Local Authority, confirmed by Local Government Board (in accordance with Section 51, Public Health Acts Amendment Act, 1907).—
Rag and Bone Dealers (22), Dealers in Hides and Skins (4), Dealer in blood or other putrescible animal products (1), Blood Dryer (0), Fat Melter or Fat Extractor (2), Glue and Size Maker (1), Gut Scrapers (2). Fish Friers (130).

The latter business was, at the beginning of 1912, declared to be an offensive trade. This includes all the fried-fish shops in the City. These have been systematically inspected, and, in September last, a report on their condition and on the conduct of this trade in general, was submitted to the Sanitary Committee by the Inspector of Nuisances.

The following businesses have not yet been declared to be offensive trades, but the premises where they are carried on are also inspected, viz.:—Tanners (2), Fish Curers (4), Manure Manufacturers (3).

SUMMARY OF NUISANCES, &c., FOR THE ABATEMENT OF WHICH NOTICES WERE SERVED DURING 1912.

WERE SERVED DURING 1912.	
Foul privies and ashpits (to replace with water-closets) Privies	77
LASIDIUS	49
Defective "cell" privies in Benwell and Walker (to replace with	
Foul or defective ashpits not connected with privies (to remove and	734
provide tubs or dust bins, or to provide doors and coverings)	104
Insufficient water-closet or privy accommodation (additional water-	104
	19
Defective or insufficient ashtubs or dust bins (to provide new or	10
additional)	945
Defective water-closets (to repair)	583
Water-closets without water supply (to provide water)	143
Choked water-closets (to cleanse-mostly served on tenants)	294
Dirty water-closets (to cleanse—all served on tenants)	324
Defective pail-closets (to repair, provide new pails, &c.)	373
Foul pail-closets (to replace with water-closets)	488
Dirty privies (to cleanse—all served on tenants)	52
Defective drains (to repair, or construct new drains)	398
Choked drains, etc. (to cleanse)	1,285
Defective or choked sinks, waste pipes, soilpipes, vent shafts, etc. (to repair or cleanse)	294
Sink wastepipes not trapped, &c	108
Want of or defective pavement in yards and passages (to provide or repair)	173
Dirty rooms (to be cleansed)	139
Damp rooms	64
Overcrowding (to abate)	103
Dirty yards and passages (to cleanse)	576
Animals, pigeons, and fowls improperly kept (to remove)	258
Offensive accumulations (to remove)	241
Accumulations of manure (to periodically remove)	38
Want of or defective manure pits (to provide or repair)	15
Broken roofs and want of or defective or choked spouting (to repair,	110
provide, or cleanse)	443
Want of water (to provide supply)	289
Want of proper ventilation to tenement rooms owing to window cords	14
being broken (to provide proper sash cords)	49
Defective "waste" waterclosets (to remove, and provide w.c's with	10
flushing cisterns, &c.)	30
Pig styes defective	2
Yards or conveniences dirty	3
Defective drains	12
Choked drains	2
Defects in Want of or defective pavements of yards, &c	2
Council Defective w.c's	6
Schools Waste pipes untrapped	3 2
Defective or challed vent chafte wests pines for	6
Insufficient surface drainage	1
Defective or choked spouting	2
Structural defects in houses (broken plaster, floors, stairs, &c.)	224
Water supply to sinks, &c., derived from feed cisterns	18
Food manufactured or stored for sale under improper conditions	10
Bedding in dirty condition (to cleanse)	8
Slop water thrown into privy pails or ashtubs	24 .
Filth thrown on streets	11
Want of or defective sanitary conveniences in public-houses (to pro-	
vide or repair)	5
Sale of Ice Cream Premises in dirty condition Name and address of vendor not inscribed on barrow	3
Want of drainage	2 3
Unitable manifest and a stable	1
West of and an Ossa montilation	17
Fried Fish Shape Want of classificace for	3
Shed occupied as a dwelling	1
Offensive trades established without consent	2
Unclassified minor nuisances (to abate)	58
Total	9,133

Details Relating to certain works carried out in the Abatement of Nuisances and to Inspections made during 1912.

Length in	yards of old	drains	removed			***		4,02
,,	" nev	v ,,	construct	ted		***		6,140
New trapp	ed gullies pr	rovided	to drains				***	77-
Combined	privies and	nobalto		(privi	es			*56
Combined	privies and	asnpits	removed	ashp	its			*37
Cell-privie	s removed (i	n Benw	ell and V	Valker D	istricts)			290
Water-clo	sets provided	1						+63
Pail-closet	s removed							259
Defective	water-closet	s reme	oved, ar	nd close	ets of	better o	lesign	
substi								63
Dust bins	substituted	for dry	y ash-pit	s where	water-c	losets ex	isted,	
by wa	ovided in ca ter-closets	ses whe	re pan-ci	losets, &	c., have	been rep	olaced	1731
No. of dra								1,377
	s of above di							1.934
	ections from							1,093
	ement inspec					ily or by i		24,689
	traventions of					notices	have	24,000
	erved to obt				n winer	Hotices		\$2,419
	s of houses					d outdoo	***	84,418
	ices discover							
	or nuisances							
	nent of whic							
	it legal notic							0.116
	s to learn if						***	9,448
				ere in pi	ogress			
SHIPPEULSIO	THE COT WATER OF							
	ns of work in			 Iogalitia				
Common y	ards and cou	ırts in t	he worst	localitie		dly visite	 ed on	
Common y Friday	ards and cou afternoons	arts in t	he worst Saturday	localitie mornin		ılly visite obtain w	ed on eekly	4,909
Common y Friday cleans	ards and cou afternoons ing of same	arts in t	he worst Saturday 	localitie mornin 		dly visite	 ed on	4,909 32,939
Common y Friday cleans Inspections	ards and cou afternoons ing of same after infect	and S	he worst Saturday ease	localitie mornin 		ally visite	ed on eekly 	4,909 32,939 1,582
Common y Friday cleans Inspections	ards and cou afternoons ing of same s after infect s of milk sho	and S ious disc ps and i	he worst Saturday ease ice cream	localitie mornin neries	gs to (ully visite	ed on eekly	9,907 4,909 32,939 1,582 1,759
Common y Friday cleans Inspections Inspections	ards and cou afternoons ing of same s after infect s of milk sho bakehous	and S and S ious disc ps and i	he worst Saturday ease ice cream	localitie mornin neries		ally visite	ed on eekly 	4,909 32,939 1,582 1,759 283
Common y Friday cleans Inspections	ards and cou afternoons ing of same s after infect s of milk sho bakehous offensive	and S ious disc ps and i ses trades	he worst Saturday ease ice cream 	localitie mornin neries 	gs to (obtain w	ed on eekly 	4,909 32,939 1,582 1,759 283 912
Common y Friday cleans Inspections Inspections	ards and cou afternoons ing of same s after infects of milk sho bakehous offensive wholesald	ints in to and Some interest in the second in	he worst Saturday ease ice cream	localitie mornin neries ehouses		obtain w	ed on eekly 	4,909 32,939 1,582 1,759 283 912 88
Common y Friday cleans Inspections Inspections	ards and cou afternoons ing of same s after infect s of milk sho bakehous offensive	irts in t and S ious dis- ps and i ses trades e marga ewashin	he worst Saturday ease ice cream	localitie mornin neries ehouses		ally visite	ed on eekly	4,909 32,939 1,582

^{*} Some ashpits have more than one privy attached.

^{† 20} of these were provided on premises where the accommodation was previously insufficient.

Free dust bins given by Corporation in each case.

[§] In addition to this number, the District Inspectors have daily had premises cleansed on verbal order.

Summary of Legal Proceedings ordered to be taken before the Magistrates for the Abatement of Nuisances, etc., during the Year 1912.

NATURE OF COMPLAINT.	No. of Cases.	How Disposed of.
Defective Drains	4	Work done without the summonses being applied for.
Choked Drains Public Health Act, 1875,	2	Obstruction removed without the summonses being applied for.
Sec. 36:-		
Houses without sufficient water closets, &c., (foul privies, to replace by proper water closets)	16	In one case, the owner was summoned, fined 20/- and costs, and the work was subsequently done; in another instance, a summons was issued, and the owner fined 5/- and costs. an extension of time (not yet expired) being afterwards granted by the Sanitary Committee. In the remaining 14 cases, the work was done without the summonses being applied for.
Defective Water Closets (to repair).	1	Work done without the summons being applied for.
Ashtubs defective or insufficient in number.	4	Tubs provided without the summonses being applied for.
Newcastle-upon-Tyne Im- provement Act, 1899, Sec. 46:—		
Want of Water Supply.	7	Water supplied without the summonses being applied for.
Newcastle-upon-Tyne Bye- laws,(Oct.)1866, No. 3:-		
No proper receptacle for dung in connection with stable.	1	A moveable receptacle was provided, and arrangements made for frequent re- moval; summons not issued.
Tenement Bye-laws :-		
Contravention of Bye-law 12 (Insufficient w.c. accommodation)	3	In two cases, additional w.c's were pro- vided, and in the other the number of tenants were reduced so as to comply with the Bye-law. Summonses not issued.
Carried forward	38	Amount of Penalties carried forward— £1 5s. 0d.

Summary of Legal Proceedings ordered to be taken before the Magistrates for the Abatement of Nuisances, etc., during the Year 1912.

NATURE OF COMPLAINT.	No. of Cases.	How Disposed of.
Brought forward	38	Amount of Penalties brought forward £1 5s. 0d.
Contravention of Bye-law 15 (Yards dirty)	3	Work done without the summonses being applied for.
Contravention of Bye-law 16 (W.C. structure and apparatus)	5	Ditto.
Contravention of Bye-law 18 (Waterclosets dirty)	1	Work done without the summons being applied for.
Contravention of Bye-law 19 (Privies dirty)	1	Ditto.
Contravention of Bye-law 24 (Room floors dirty)	1	Summons issued, but withdrawn on the tenant vacating the house. (See also "Bye-law 32.")
Contravention of Bye-law 27 Passages and stair- case dirty)	2	Work done without the summonses being applied for.
Contravention of Bye-law 28 (Keeping of fowls)	1	Occupier summoned, and fined 5/- and costs.
Contravention of Bye-law 31 (Limewashing of yards, passages, stair- cases, &c.)	5	Summonses issued, and afterwards with- drawn on the work being done and costs paid by defendants.
Contravention of Bye-law 32 (Dirty room walls and ceilings)	1	Summons issued, but withdrawn on the tenant vacating the house. (See also "Bye-law 24.")
Contravention of Bye-law 33 (Yard pavement de- fective)	1	Work done without the summons being applied for.
Contravention of Bye-law 34 (Want of water sup- ply for domestic pur- poses)	6	Water supplied without the summonses being applied for.
Total	65	Total Amount of Penalties, £1 10s. 0d.

HOUSING.

Tenement Bye-laws.—The number of tenemented houses in the City is 3,551, containing 10,072 holdings, as follows:—

1 Room.	2 Rooms.	3 Rooms.	4 Rooms.	5 Rooms.	Total.
3,488	5,411	1,056	113	4	10,072

The systematic inspection of tenement dwellings continues, and undoubtedly conduces to the more cleanly habits of the dwellers in that class of property. By the repeated visits of the Inspectors, the tenants' duties and responsibilities are brought home to them, and this results in the inculcation of better ideas as to the elements of sanitation. There still, however, remains much room for improvement in this respect.

The Bye-law requiring the limewashing of tenement yards, passages, &c., in the months of April and September, has, as usual, entailed a considerable amount of labour on the part of the Health Department officers. In the year under report, 7,050 visits were made in connection with the enforcement of this Bye-law alone. As previously, circular letters of reminder have been issued to all landlords of tenemented property, which, together with personal interviews, &c., has resulted, in most cases, in the work required being carried out, legal proceedings having been rendered necessary in only five instances.

Insanitary Dwellings dealt with under the Newcastle-upon-Tyne Improvement Act, 1882.

The following dwellings, reported to Committee by the Medical Officer of Health, were dealt with as shown:—

01 1 0 1 1 1 D 1 10 1					Houses.	loldings.
Closed—Cottages, Allison's Brickfield	1, W	alker		***	1	 2
27, Dene Terrace, Scotswood	1				1	 1
Fair Pit, Walker					2	 2
White Cottage, Walker					1	 1
887, 891, 893, 895, 897, 899,	901,	Scots	wood	Road		
(basement rooms)				***	7	 7
27, Silver Street					1	 4
Carried	for	ward			13	17

Satisfactory alterations made—	Bre	ought.	forwa	rd	Houses.	I	Holdings
7, 11, 12, 13, 16, 18, Chape	el Cour	t, Scot	swood		6		6
9, 11, 13, 15, Chapel Terra	ice. Sce	tswoo	d		4		4
15, 19, 23, 25, Dene Terrac	ce. Scot	tswood	1		4		
Prudhoe Court, No. 2						***	4
Staith House Walker			****	***	2	***	3
22, 23, 24, Boathouse Cott				***	2	***	2
Still under consideration—	ages			***	3	***	3
110 114 Danay Starent							
110, 114, Percy Street	***	***	***		4	***	15
					_		_
					38		54
Closed— CELLAR	DWE	LLING	GS.				
227, 595, 599, 613, 617, 806	810 \$	coten	and Do	n.d.	-		_
106. 107, Blandford Street	, 010, 0		ou Ro	alu	7		7
2. 4. 6. 16. 18. 20. 26. 29.	20 E0	07 00	01 00		2	***	2
2, 4, 6, 16, 18, 20, 26, 28, 3	0, 00,	27, 29,	31, 33	5, 35,			
37, 41, 45, 47, Georg	ge Stree	et	222		19		25
5. Bell Street		***			1		1
4. 6. Mary Street					2		2
26, 28, 30, 32, 45, Edward	Street				5		5
11a, Worley Street					1		1
Satisfactory alterations made—			777				
94, Blandford Street							
14, 23, George Street				***	1	***	1
13, 14, Cottenham Street	***			***	2		2
7 0	***	***		***	2		2
7, Laurei Street	****	***			1		2
279, 283, 313, 317, Scotswo	od Ros	id		***	4		8
Proposals made and accepted by So	anitary	Comi	nittee,	but			
work not yet carried	out-						
187, 287, 291, 299, 601, 60	05, 607	, 611.	619.	623.			
Scotswood Road					10		13
20, John Street					1		
3, 7, 10, 17, Worley Street			***		7		1
Still under consideration—		***	***	***	4		5
251, 255. Scotswood Road							
, 2001 Ocotswood Road	***	1111	***		2		4
					Telesco (10.4)		
					64		81
					-		-
	T	OTAL		***	102		135
					-		-

Houses Demolished or otherwise Converted.—15 tenemented houses (45 holdings) and 2 self-contained houses have been converted into business premises or otherwise ceased to be used as dwellings. These are in addition to the number closed as unfit for habitation.

Houses Built during the Year 1912.—The following return of houses built during the year under report is supplied through the courtesy of the City Engineer:—

				. 0		
Newcastle-upon-Tyne. Benwell			Sel	Houses f-contained.	T	Houses of wo Flats each.
	***	***	***	3		1
Fenham	***	***		11		
Elswick Township				4		-
Westgate Township	***			_		
Byker Township			****	4		3
Jesmond Township				23		6
Heaton Township				21		11
St. Andrew's Parish						
St. John's Parish		***		_		-
St. Nicholas' Parish				_		_
All Saints' Parish		***	***	-		
Walker	• • • •		***	31		3
				97		24
					(for 4	8 families.)

New accommodation has thus been provided for 145 families, or at the rate of 5 persons to a family, 725 persons, as compared with accommodation estimated for 1,565 persons provided during 1911.

Customs and Inland Revenue Act, 1890, Sec. 26 (2).—Applications, respecting 25 houses, for certificates entitling the owners to exemption from inhabited house duty were made to the Medical Officer of Health during the year. In only 8 instances were the sanitary conditions such as to justify the granting of a certificate.

Sanitary Alterations.—12 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 17 during the previous year.

NEW HOUSE DRAINS.

Drains of New Buildings.—This work has been efficiently carried out during the year, details being shewn in the following table:—

No. of Premises		in Drains ted.		Branch Tested.	Supple-	Super- visions of	Visits to learn if
Drains have been laid.	With Water.	With Smoke.	With Water	With Smoke	Tests.	Work in Progress.	Work in Progress
304	264	40	979	76	1,071	5,175	2,514

COMMON LODGING HOUSES.

These houses have been well conducted during the year. 65 applications have been received for the registration of common lodging houses, 64 being granted and 1 refused, whilst 2 houses have been closed, and 2 adjoining houses converted into one. The number of common lodging houses in the City at the end of the year was 61. The total number of lodgers for which these houses were registered was, at the close of the year, 2,006, as against 2,033 at the end of 1911. The average number of lodgers per night was 1,524, the highest and lowest numbers on any one night being 1,739 and 1,437 respectively.

For further particulars see Tables below.

The Assistant Inspectors of Common Lodging Houses also obtain samples of water and milk for bacteriological examination, and collected 191 of the former and 286 of the latter during the year. These officers also take smoke observations, and assist the District Inspectors when required.

REGISTERED COMMON LODGING HOUSES.

SUMMARY OF WORK DONE AND VISITS MADE DURING THE YEAR 1912.

of the yearefused) osed, and some sed, a	. 65 . 64 2 . 3 . 10,148 . 662 . 366
osed, and 2	. 64 2 . 3 . 10,148 . 662 . 366
osed, and some second s	2 . 3 . 10,148 . 662 . 366
	. 10,148 . 662 . 366
	. 10,148 . 662 . 366
	. 662 . 366 . 10
244) 122) g prescribed	. 366
 g prescribed	10
 g prescribed	. 1
 g prescribed	. 1
	18
	9
	12
	16
	13
pouting	8
0	5
	1
	9
	2
	1
	1
willdow	3
	1
	2
	pouting

^{*} Application for the registration of common lodging houses is now required to be renewed each year (Sec. 63, Newcastle-upon-Tyne Corporation Act, 1911).

LODGERS OCCUPYING COMMON LODGING HOUSES IN THE CITY DURING THE YEAR 1912.

		Year 1912.	Corresponding Nos. for Year 1911.
Average number of Lodgers per night	 	1,524	1,426
Highest number on any one night	 	1,739	1,568
Lowest ,, ,, ,,	 	1,437	1,268
Number of Lodgers for whom accomm provided in the Common Lodgin the City at the end of the year		2,006	2,033

FACTORIES AND WORKSHOPS.

Factory and Workshop Acts.—There are on the Register 1,302 workshops, besides a large number of factories, domestic workshops, workplaces, laundries, bakehouses, &c.

Particulars as to the number and nature of the various trades carried on, the number of inspections made, defects found, out-workers, &c., are given in the Tables below.

During the year, 83 lists of outworkers have been received, 30 employers having sent in lists twice, and 23 employers once.

Included in the lists so received, were 25 names and addresses of out-workers employed in districts outside the City. These were duly forwarded to the respective districts, as required by law.

64 notices as to insanitary conditions in factories and workshops have been received from H.M. Inspectors of Factories. 16 of these related to factories, and 48 to workshops. The matters referred to were investigated and dealt with by service of notice, &c., the results being reported to the Inspectors of Factories as required by the Act.

Administration of the Factory and Workshop Act, 1901, in connection with Factories, Workshops, Workplaces and Homework, during the Year 1912.

HOME OFFICE TABLES.

1.-INSPECTION.

INCLUDING INSPECTIONS MADE BY SANITARY INSPECTORS OR INSPECTORS OF NUISANCES.

		NUMBER O	F
PREMISES. (1)	Inspections. (2)	Written Notices. (3)	Prosecutions.
Factories (Including Factory Laundries.) Workshops	174 7,441	497	Nil.
(Including Workshop Laundries.) Workplaces (Other than Outworkers' premises included in Part 3 of this Report.)	1,058	137	XII.
Total	8,673	497	

2.—DEFECTS FOUND.

	NUMBI	ER OF DE	FECTS.	
PARTICULARS.	Found.	Remedied.	Referred to H.M. Inspector. (4)	Number of Prosecu- tions.
(1)			(-)	(0)
Nuisances under the Public Health Acts:—* Want of cleanliness	221	220		
Want of ventilation	15	14	1	1
Overcrowding	17	17		
Want of drainage of floors	2	2		
Other nuisances	199	198	=	
†Sanitary (insufficient	38	35		1
accommodation unsuitable or defective	71	70	2	
(not separate for sexes	18	17	-	
Offences under the Factory and Work- shop Act:—				Nil.
Illegal occupation of underground bakehouse (s. 101)	1	1		
Breach of special sanitary require-)			-	
ments for bakehouses (ss. 97 to 100)	72	71	-	
Other offences	_	_	2	
(Excluding offences relating to out- work which are included in Part 3 of this Report.)				
Total	654	645	5	

^{*} 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.

FACTORY AND WORKSHOP ACTS.—Continued. 3.—HOME WORK.

				0	OUTWORKERS' LISTS, SECTION 107.	ERS' LIS	rs, Sect	10N 107.			OUT	OUTWORK IN UNWHOLESOME	-	OUTWORK IN INPECTED PREMISES	DREK IN INP	ECTED
			Lists re	ceived fr	Lists received from Employers.	oyers.			Prosecutions.	tions.	SEC	SECTION 108	.88.	SECTIO	SECTIONS 109,	110.
								Notices				-		-		
NATURE OF WORK.		Twice	in the Year.	ear.	Once	Once in the Year.	car.	Occupiers as to	Failing to keep,		·sə5	.bavaa.	tions.	'səə	(.011 (.011	snoit (.01
			Outworkers.+	kers.+		Outworkers.	rhers.		or permit	Failing	ueşs	s sə:	noos	ness		ectio
		Lists.+	Con-	Work-	Lists.	Con-	Work-	sending Lists.	tion of Lists.	send Lists.	uI	oitoN	Pros	ıuI		10 (S)
8		(3)	(3)	(+)	(2)	(6)	(2)	(8)	(6)	(01)	(1)	(12)	(13)	(14)	(15)	(91)
Wearing ((1) Making, &c	:	58	12	194	22	00	89	30	Nii.	S.Z	37	. :	Nii.	-01	Nil.	Nii.
Apparel [(2) Cleaning and Was	Shing	:	:	-	:		:			:	:	:	:	:	:	:
Household Linen	:		:	:		:	00	***		:	:	:	::	::	:	:
Furniture and Upholstery	:	:		17	-	:	-	***		:	:	:	:	:	:	:
Brass and Brass Articles	:	:	:	-	:	::	:	:		:	:	:	:	:	:	:
Umbrellas, &c	:	:	:	- :	:	:	:	:	:	:	:	:	:	:	:	:
Paper Bags and Boxes	:	7	:	10	:	:	:			:	:	:	:	:	:	:
Making Cart Gear	:	::	:	-	:	:	:	***		::	:	:		:	:	::
,, Locks, &c	:	:	:	. 03	:	:	:			:	:	:	:	:	:	:
,, Brushes	:		:	-	:	:	:	:	:	:	:	;	:	:	:	:
Total	::	09	12	229	23	00	72	70	:	:	37	37	:	57	:	:

Nores.—† The figures in columns (2,) (3), and (4) are the total 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.

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.

§ In 51 cases the lists of outworkers were not received in the month of Pebruary or August as required by the Act, but in every such case they were subsequently received on the employers being reminded of their default. 19 instances of failing to keep or permit inspection of lists of outworkers also occurred, the employers likewise complying after reminder.

* With one exception the Notices were served upon the Ontworker, and in each case, were immediately complied with.

| These cases were children of outworkers. In each case the patient was removed to Hospital, and the premises thoroughly disinfected.

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.

4.—REGISTERED WORKSHOPS.

Workshops on			(1)	,					Number (2)
Factories									643
Workshops									1,302
Domestic Worksh	ops	***		***	***	***		***	181
Workplaces									256
Laundries									41
Bakehouses					***	***			267
Total Nur	nber	of Fac	tories	and We	orksho	os on F	Registe	r	2,690

5.—OTHER MATTERS.

CLASS.						
Matters notified to H.M. Inspector of Factories:						
Failure to affix Abstract of the Factory and Workshop Act (sec. 133)	25					
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. Inspectors Reports (of action taken) sent to H.M. Inspectors	64					
Other:—						
Underground Bakehouses (s. 101):—						
Certificates granted during the year	-					
In use at the end of the year	13					

6.-TRADES,

Particulars as to the number and nature of the various trades carried on in the workshops of the City.

	Т	RADES.				Work- shops.	Domestic Work- shops.	Work- places.
Aerated Water						1	_	-
Agricultural In	ple	ments (m	akin	g and	re-			
						1		-
Artificial Stone	mal	ring				7	_	-
Asphalt prepari						3		1
Athletic Outfitte						6		_
Anchor making						1	_	_
Bacon washing						6		
Bakehouses						65	202	_
		Carried	for	ward		90	202	1

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6.—TRADES—continued.

Bags, Baskets, Trunks, &c. (making and repairing)	TRADES.	Work- shops.	Domestic Work- shops.	Work- places.
Page	Brought forward	90	202	1
Page	Bags, Baskets, Trunks, &c. (making and			
Bedsteads, Bedding and Mattress making			2	2
Bicycles (making and repairing) 28			-	
Blacksmiths				
Boat building South Sout				
Bottling wine, spirits, and beer, and bottle washing				-
Boots, Shoes, and Slippers (making and repairing)				100
Boots, Shoes, and Slippers (making and repairing)		5	-	13
Builders and Contractors 19		1000		
Brush making			26	_
Carriages, Coaches, Carts, and Barrows (making and repairing)		0.0		4
(making and repairing) 14 Carpets, Canvas, and Waterproof Covers (making) 7 1 (making) 7 1 Cattle Food and Medicine preparing 2 Cohemical Works, &c. 5 Confectioners 12 1 Confectioners .		2		
Carpets, Canvas, and Waterproof Covers		14		_
(making) 7 1 Chemical Works, &c. 5 — Confectioners 12 1 Coal Depôts — 23 Coopers 10 — Cork Cutters 2 — Currants and other fruits (packing and cleaning) 7 — Cutlers, and Corset and Stay Makers 2 — Cutlers, and Corset and Stay Makers 2 — Cigarette making 2 — Dentists 1 — Drysalters 8 — 1 Empty Crates (storage of) — — — Engravers 7 — — Engravers 7 — — Electric Tram Depôts 2 — — Engineers 6 — 2 "Fittings (making) 6 — 2 "Fire Wood and Fire Lighters (preparing) 5 — Fire Wood and Fire Lighters (preparing) 5 —	Carpets, Canyas, and Waterproof Covers			
Cattle Food and Medicine preparing			1	
Confectioners 12 1 23 Coal Depôts 10 - - 2 Coopers 10 - - - - Cork Cutters 2 - <td></td> <td>2</td> <td>-</td> <td></td>		2	-	
Coal Depôts — — 23 Coopers — — — Cork Cutters — — — Currants and other fruits (packing and cleaning) — — — Cutlers, and Corset and Stay Makers — — — Cigarette making — — — Dentists — 1 — — Dentists — 1 — — — Dentists — 1 — <	Chemical Works, &c		-	-
Coopers		12	1	93
Cork Cutters 2		10		20
Currants and other fruits (packing and cleaning) 7 — 1 Cutlers, and Corset and Stay Makers 2 — — Cigarette making — 2 — — Dentists — 1 — — — Dentists — 1 —				_
Cutlers, and Corset and Stay Makers 2		-		
Cutlers, and Corset and Stay Makers 2 —		7	-	1
Cigarette making			-	-
Drysalters 8 1 Empty Crates (storage of) - - 1 Egg packing, &c. - 2 - - Engravers - 7 - - Electric Tram Depôts 2 - - "Fittings (making) 6 - - Engineers 6 - 2 "Glectrical) 9 - 1 "(Motors) 6 - 6 "(Model Makers) 1 - - Fire Wood and Fire Lighters (preparing) 5 - - Fire Wood and Fire Lighters (preparing) 5 - - Fire Usurier - - - - Fur pulling - 1 - -			-	_
Empty Crates (storage of)	Dentists		-	
Engravers (storage of)		8		
Engravers	Empty Crates (storage ot)	9		
Electric Tram Depôts				
Fittings (making)		2		-
Engineers	Dittings (making)		_	_
" (Blectrical) 9 1 " (Motors) 6 - 6 " (Model Makers) 1 - - Fire Wood and Fire Lighters (preparing) 5 - - Fish Curers 3 - 1 Furriers 10 - - Fur pulling 1 - - File cutting 1 - - File cutting 1 - - Furniture (cabinets, automatic seats, &c., 48 - 3 Guns (repairing) 3 - - Gut scraping 1 - - Galvanizing 1 - - Grain, Ice, and Oil Warehouses - - 26 Hat and Cap making 5 2 - Hosiery Garments (making) 5 2 - Harness (making and repairing) 13 - -		6	_	
"(Model Makers) 1 — — Fire Wood and Fire Lighters (preparing) 5 — — Fish Curers 3 — 1 Furriers 10 — — Fur pulling 1 — — File cutting 1 — — Furniture (cabinets, automatic seats, &c., and french polishing) 48 — 3 Guns (repairing) 1 — — Gut scraping 1 — — Galvanizing 1 — — Galvanizing 4 2 — Hat and Cap making 5 2 — Hosiery Garments (making) 5 2 — Harness (making and repairing) 13 — — Hay, Straw, and Moss Litter (storage of) <t< td=""><td>(Flectrical)</td><td></td><td>-</td><td></td></t<>	(Flectrical)		-	
Fire Wood and Fire Lighters (preparing) 5 Fish Curers	" (Motors)			6
Fish Curers	,, (Model Makers)			-
Furriers				1
Fur pulling		4.2	-	-
File cutting		1		_
Furniture (cabinets, automatic seats, &c., and french polishing) 48 3 Guns (repairing) 3 - Gut scraping 1 - Galvanizing 1 - Grain, Ice, and Oil Warehouses - 26 Hat and Cap making 4 2 Hosiery Garments (making) 5 2 Harness (making and repairing) 13 - Hay, Straw, and Moss Litter (storage of) - 10	File cutting	1	-	-
and french polishing) 48	Furniture (cabinets, automatic seats, &c.,			0
Gut scraping 1 — — Galvanizing 1 — — — Grain, Ice, and Oil Warehouses — — — 26 Hat and Cap making 4 2 — Hosiery Garments (making) 5 2 — Harness (making and repairing) 13 — — Hay, Straw, and Moss Litter (storage of) — 10	and french polishing)			3
Galvanizing 1 — — 26 Grain, Ice, and Oil Warehouses 4 2 — Hat and Cap making 5 2 — Hosiery Garments (making) 5 2 — Harness (making and repairing) 13 — — Hay, Straw, and Moss Litter (storage of) — 10		1		-
Grain, Ice, and Oil Warehouses — — 26 Hat and Cap making 4 2 — Hosiery Garments (making) 5 2 — Harness (making and repairing) 13 — — Hay, Straw, and Moss Litter (storage of) — 10		1		
Hat and Cap making	Grain Ice and Oil Warehouses			26
Hosiery Garments (making) 5 2 — Harness (making and repairing) 13 — 10 Hay, Straw, and Moss Litter (storage of) — 10	Hat and Cap making	A	2	-
Harness (making and repairing) 13 10	Hosiery Garments (making)	5	2	-
Hay, Straw, and Moss Litter (storage of) 10	Harness (making and repairing)	1000	-	1 1200
Carried forward 585 236 95	Hay, Straw, and Moss Litter (storage of)	-	-	10
	Carried forward	585	236	95

6.—TRADES—continued.

TRADES.	Work- shops.	Domestic Work- shops,	Work- places.
Brought forward	. 585	236	95
Hide and Skin Dealers		_	4
Instruments, Mathematical and Musical			
(making and repairing)		-	-
Ink manufacturing		-	-
Ironmongery (storage of)		78	-
Jewellery, Watches, Clocks, &c. (making		_	1
and repairing)	51	4	
Joiners, Handrailers, and Ladder Makers	64	-	
Japanning		_	
Lamps (making and repairing)	2	_	
Lard rendering		_	-
Leather dressing	V 2000	16	-
Locksmiths		-	-
Machines, Second hand (renging)	4 2		-
Marbie Masons and Monumental Sculptors	8	-	
Milliners	72	3	
Marine Stores and Metal Dealers	21	3	1
Oil bottling	1		1
Opticians	1		
Organs and Pianos (making and repairing)	2	-	8
" Pipes	1	-	
Onion stringing	2		
Ornament making (fine art)	2	-	-
Paint and Varnish (making and bottling) Painter's Workshops	3	-	-
Paper Warehouses	42	-	-
Parcel Carriers			2
Photographers	24	-	3
Pickle and Sauce making	8		
Picture Framers	13		
Pipes, Tobacco (making and repairing)	1	1	
Plaster and Lath rendering	5		
Plumbers and Gasfitters (including making			
and repairing of sanitary pipes and			
Provisions, Ship's Stores, Tinned Meats,	83	-	2
OC. (Storage of)			
Restaurante bitabana		-	11
Rubber Stamps and Tyres (making and			85
repairing)	3		
Refuse Tips			2
Scales and Weighing Machines (making			2
and repairing)	6	_	-
Sewing Machines (repairing)	1	-	-
Sign Boards and Sun Blinds (making and			
repairing) Stained Glass (making)	2		-
Sugar packing	5	-	_
Slates (storage of)	1	-	-
Stables (Livery, &c.)			1 .
Tailors	207	99	35
	207	23	-
Carried forward	1261	361	250
			The same of

131
6.—TRADES—continued.

	Work- shops.	Domestic Work- shops.	Work- places.					
		Broug	ht forw	ard		1,261	361	250
Taxidermists						2	_	
Tea Blending						5		
Ticket Writers						11		
Timber Yards						11		
Tin, Iron Plate,						16		1
Tripe Dressers						6	1	1
Typewriting Ma	chin	es (rer				3		
Tools and Saws (making and repairing)						9	3	
Telegraphic App	parat	us (sto	rage of)					1
Toys (storage of	f)							2
Underclothing (maki					21	30	4
Undertakers		-			10000	23	30	100
Upholsterers						16	4	2
Umbrellas (mak						1	4	2
Venetian Blinds	(ma	king a	nd repai			3	1	
Wood Carvers	1	ming a		img)		11	1 2	-
· ·							2	
			Totals			1,392	399	256

COUNCIL SCHOOLS.

Sanitary Inspection of Council Schools.—190 inspections of these schools have been made during the year. At 13 schools, insanitary conditions were found. (For particulars see page 117.) The matters in question were reported to the School Authorities.

THE RAG FLOCK ACT, 1911.

In pursuance of this Act, which came into operation in July last, 12 samples of rag flock have been purchased and submitted for analysis to the Public Analyst. Six of them did not conform to the standard of cleanliness laid down by the Local Government Board in their Regulations under the Act, but contained soluble chlorine as chlorides in amounts varying from 43 to 554 parts per 100,000 of flock. In each of these cases, the vendor was cautioned, by order of the Sanitary Committee.

The attention of Upholsterers and other Dealers in Rag Flock was also drawn to the provisions of the Act, by advertisement in the local newspapers.

For particulars of work done under the Food and Drugs Acts, see pages 100-110.

I am, Sir,

Your obedient Servant,

W. Hudspeth,

Health Department, Town Hall, 9th May, 1913. Inspector of Nuisances, Common Lodging Houses, &c.

SUMMARY OF SPECIAL REPORTS MADE BY THE MEDICAL OFFICER OF HEALTH DURING 1912.

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

Infec	tious	Disea	ise.		
Scarlet Fever and Schools .					Jan., Feb.
Enteric Fever-Outbreak in Dela	val Ter	race			Feb.
Diphtheria—Outbreak at Walker	Gate S	chool			Nov.
City Hospital	for I	nfectio	ous Di	seases.	
Superannuation, Nurses and Service	vants				Feb.
Tenders for Groceries, Provisions	, Meat,	Milk, Fi	sh, Beddi	ing,	
Linen, Furnishings, Hardw	are, Ea	rthenwa	re, etc.		Feb., May.
Meat Contract					April.
Report on Expenditure-Compa	rative	with oth	er hospi	tals	
(Deputy M.O.H.)					Sept.
	Local	ities.			
Ouseburn Refuse Tip					Jan.
Houses unfit for Habitation, incl	uding C	ellar Dw	ellings	Jan.,	Feb., Mar.,
		Apr	., May, J	July, Aug.	Sept., Oct.

General.

Food and Drugs Act)	Jan., Dec.
Bacteriological Examination	s-Cost				May.
	Confir	mation o	of Agree	ment	
		by Counc	ci1		July.
	Agreer	nent and	Annual	Esti-	
		mates			Aug.
	Month	ly Refere	ences		_
Ptomaine Poisoning					Mar.

SUMMARY OF SPECIAL REPORTS—continued.

Tuberculous Milk	Mar., April, May, Sept., Dec.
Library books from infected houses	Mar.
Tenders for Bedding Van, Uniforms and Overcoats for	or
Inspectors, etc	Mar., Sept.
Conferences on Tuberculosis	April.
Health Conference and Exhibition	May.
Conference on National Insurance Act, between National	al
Health Commissioners, Local Government Board, an	d
Medical Officers of Health (Deputy M.O.H.)	June.
National Association for Prevention of Consumption-Annua	al
Conference at Manchester	June.
Tuberculosis Dispensary	. June.
National Insurance Act-Nomination by Commissioners	of
Superintendent of Midwives on Newcastle Insurance	e
Committee, and appointment of Deputy M.O.H. a	s
Medical Adviser to that Committee	June, Aug.
Sanitary Inspectors' Association-Annual Conference	t
Sheffield	July.
Retirement of Dr. Henry E. Armstrong	July.
Royal Sanitary Institute—Annual Congress at York .	Aug.
Corporation Superannuation Fund-Complete schedule of	f
value of emoluments of all grades of employés in th	e
Health Department	. Aug.
Rag Flock Act, 1911	. Sept.
Public Health (Tuberculosis) Regulations, 1912	. Dec.
National Association for the Prevention of Infantile Mortalit	y
and for the Welfare of Infancy	. Dec.
Appointment of Dr. Harold Kerr as M.O.H	. Nov., Dec.
Appointment of Dr. S. J. Clegg as Assistant M.O.H.	. Dec.

