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ANNUAL REPORT

ON THE



HEALTH



OF THE

BOROUGH OF GRANTHAM

For 1908, by

H. POOLE BERRY, M.B.,

Medical Officer of Health.



GRANTHAM:

LEAYTON AND EDEN, PRINTERS, ETC., HIGH STREET.

BOROUGH OF GRANTHAM.

SANITARY COMMITTEE.

COUNCILLOR NORTON (*Chairman*).

THE MAYOR.

ALDERMAN COULTAS.

COUNCILLOR GRANT.

„ PLUMB.

„ REAR.

„ ROWLE.

Medical Officer of Health:

H. POOLE BERRY, M.B.

Sanitary Inspector:

S. FRANCIS NOTT, Assoc. R. San. Inst.

SUMMARY

. . . OF . . .

ANNUAL HEALTH REPORT,

1908.

BOROUGH OF GRANTHAM.

Area—1677 acres.

Altitude—186.

Population (Census 1901)—17,593.

Estimated Population (Middle 1908)—18,181.

Inhabited Houses (Census 1901)—3,736.

Rateable Value—£83,793.

Assessable Value—£71,006.

General District Rate—3/- in £; Poor Rate—2/2 in £.

Vital Statistics 1908.

Birth Rate, per 1000 living—27·28.

Gross Death Rate, per 1000 living—14·96.

Corrected Death Rate, per 1000 living—13·91.

Zymotic Death Rate—·80.

Infantile Mortality—118·95.

Isolation Hospital—A Corrugated Iron Building.

Water Supply—Grantham Waterworks Company.

Scavenging and Refuse Disposal—By Contractor and Refuse
Destructor.

Nuisances Abated—724.

Annual Report

OF THE
MEDICAL OFFICER OF HEALTH,
OF THE
GRANTHAM URBAN SANITARY
AUTHORITY,
FOR THE YEAR 1908.

GRANTHAM,

February, 1909.

To the Chairman and Members of the Grantham Urban Sanitary Authority.

GENTLEMEN,

I beg to lay before you my Annual Report for 1908.

The population of your district, as estimated for the middle of the year 1908, is 18181.

During the year 496 births and 271 deaths were registered as having occurred in your district. From the deaths 18 must be deducted—13 of those in the Grantham Workhouse and 5 of those in the Grantham Hospital, so that the corrected number of deaths is 253.

The birth rate is 27·28 per 1000 of the population, and the death rate 13·91 per 1000 of the population, the former being 0·03 more, the latter being 1·02 less than the average of the preceding 10 years.

The deaths in your district included 9 from whooping cough, 1 from diphtheria, 5 from epidemic diarrhoea, and 1 from influenza. There were no deaths from measles, scarlet fever, or smallpox. The mortality from these zymotic diseases was at the rate of 0·8 per 1000 of the population, if influenza be excluded, and 0·88 if influenza be included. The deaths of children under 1 year were 118·95 per 1000 of registered births, being 3·5 less than the average of the preceding 10 years.

These death rates may be justly regarded as very satisfactory, the year being especially free from any epidemic of infectious disease.

There were 23 cases of diphtheria notified during the year—2 in Little Gonerby, 5 in Grantham, 13 in Spittlegate, and 3 in New Somerby,—amongst these only 1 death occurred; there were 2 cases in January, 3 in February, 5 in March, 2 in April, 2 in May, 2 in July, 2 in August, 1 in September, 1 in October, 1 in November, and 2 in December, so that the 23 cases were fairly evenly distributed during the months in the year. The use of Antitoxin, which is supplied gratis by the Sanitary Authority to all those who are not in a position to pay for this treatment, is, in my opinion, in a great measure responsible, not only for the saving of life, but by cutting short the disease, materially assists in preventing the spread of the infection. The cases of diphtheria were all isolated as far as possible in their own homes, and the premises, bedding, etc., were in each case subsequently disinfected. By the exclusion of children from attendance at School, who were likely to be the means of carrying infection, efforts were made to prevent the spread of the disease.

Measles were not prevalent during the year, and there were no deaths from this disease.

There were 16 cases of scarlet fever notified: 3 in Little Gonerby, 4 in Grantham, 8 in Spittlegate, and 1 in New Somerby. There were no deaths, and the cases were scattered throughout the whole year; they were isolated as far as possible in their own homes, and efforts were made by disinfection and school exclusion to prevent the spread of the disease. What the conditions are, which at one time favour the spread of the disease in an epidemic form, while at other times like the present year, the disease simply occurs fitfully, must be regarded as yet as unknown; but I cannot help thinking that the type of the disease varies, and at one time is more persistent than at others, and that consequently in the present state of our knowledge of the matter, the only wise course is to take such steps as the circumstances indicate from time to time.

Whooping cough was prevalent in the early part of the year, and gave rise to 9 deaths—8 in children under 1 year, and 1 between

the ages of 1 and 5 years. This disease is especially fatal among infants, and it is exceedingly difficult to devise means to check its spread.

Seventeen cases of erysipelas were notified, but no deaths resulted.

There were 5 deaths from epidemic diarrhoea—3 in infants under 1, and 2 in children between the ages of 1 and 5 years.

There were 5 cases of enteric fever notified. They all occurred in the Grantham Hospital; 4 of them had been removed from neighbouring districts, and in one of these cases death took place; the other case was that of a nurse who had come into the town from elsewhere, and who evidently had contracted the disease before her arrival here. The excreta, in all these cases, were collected in special pails, provided for the purpose, and daily removed to the Destructor. It is eminently satisfactory to report that during the year not a single case of enteric fever occurred which was contracted in your district.

There were 20 deaths from phthisis, and 13 from other tubercular diseases. Efforts are being made to ensure the proper disinfection of rooms, bedding, etc., after the death or removal of tubercular patients; but it is difficult as yet to impress upon the general public the necessity of such procedures.

There were 59 deaths among children under 1 year. It is difficult to estimate how many of these may have been from preventable causes; 8 were from whooping cough, 3 from diarrhoea, 6 from premature birth, and 3 from congenital defects. There were 18 from debility or marasmus, 4 from tuberculous diseases, 1 from rickets, 2 from convulsions, 8 from bronchitis and pneumonia, and 3 from ill-defined causes. Early in the year it was decided to adopt the Notification of Birth's Act; but the Local Government Board decreed this could not be permitted unless a properly qualified female health visitor be appointed. Steps were then taken to secure the assistance of one of the Jubilee Nurses from the Association in the Borough for this purpose, but no agreement upon the matter of terms could be arrived at, so that between the demands of the Local Government Board, the opinion of the Town Council as to what they should pay for the part-time services of a female health visitor,

and the requirements of the Local Nursing Association for such services if so rendered, the matter at present remains in abeyance. This, which in my opinion must be regarded as an unfortunate deadlock, prevents for the present any definite steps being taken to stem the death-roll of infants.

There were no cases of smallpox. The outbreak of this disease in the neighbouring village of Woolsthorpe, in the early part of the year, caused some anxiety, especially as it was known that one of the affected patients had visited your district, and inquiries were made and special precautions taken, happily without the discovery of the existence of any case of this disease in the Borough.

Epidemic influenza was not prevalent. It gave rise to one death.

The subsoil of your district is for the most part dry and sandy, but belts of clay exist to the north, south, and east sides of the town. The majority of the inhabitants are engaged in the various iron works, but many are employed in the skin yards, wicker works, maltings, and the various trades associated with the numerous businesses which are carried on in a market town, which must supply the wants of a district extending some ten miles or so in all directions. In none of the trades are the employées exposed to any exceptional risks from the nature of their occupations.

The house accommodation for the working classes is for the most part highly satisfactory, though in a few localities in the older parts of the town the tenements in occupation are not such as would meet the approval of modern day construction. Special attention has been paid to these localities, and in many instances the defects have been remedied. In one case a tenement has been closed and others in the immediate neighbourhood were reported to the Authority. Over-crowding is the exception, and when found has been remedied. There are quite a few back-to-back houses, and special attention has been paid to them to ensure that as far as possible no evil results should follow. Where common yards or passages exist, particular care has been taken that any unnecessary accumulation of refuse or waste matter should not be permitted to remain, and permission has been granted for the removal of any such accumulations by the Borough Surveyor's roadmen, upon

information received from the Sanitary Inspector. In open spaces where waste ground exists, notices have been served upon the owners of such waste ground for the removal of such deposits, and for the prevention of the recurrence of such accumulations. Water closets are the almost universal means in your district for the removal of excreta, and 22 new water closets have been provided. Efforts have been made to provide—wherever possible or wherever it appears necessary that there should be one—a W.C. for each tenement. There are still a good many water closets in your district which are not provided with a proper water flushing apparatus, but the Sanitary Committee have decided that it is not necessary to insist upon the provision of such appliances, unless it can be shown that any nuisance exists.

The water supply of your district has been ample, and in my opinion of good quality, as supplied by the Grantham Waterworks Company. There are still a good many pumps in your district. Seven samples from these pumps have been examined during the year, and where it has been considered necessary, alterations in the wells have been made.

The removal of house refuse by the Contractor has been carried out to the satisfaction of the Sanitary Inspector. There are no ashpits, and all house refuse is removed once a week to the Destructor. The receptacles provided for house refuse are frequently uncovered and unsuitable, and in some cases absent altogether, and steps ought to be taken to ensure that suitable covered receptacles should be provided. This is necessary for the health of the inhabitants, as well as in fairness to the Contractor who has to remove the refuse.

The Inspector has taken 31 samples of milk from milk vendors in your district, of which 25 were reported genuine and 6 adulterated, and in these latter prosecutions were taken and convictions obtained.

The dairies, cowsheds, and milk shops have been inspected, and notice of the new Bye-Laws have been served, and these will shortly come into force.

Many visits have been paid by your Inspector and myself to Slaughter-houses. Reports have been made as to the condition of

Slaughter-houses, and what appeared to be necessary improvements have been laid before the occupiers, but very little as yet has been done. As stated in my last Report, it seems to me that many of the existing Slaughter-houses are from their position hopeless, as regards any possibility of their ever being capable of being brought up to modern requirements. It is a pity that some common understanding cannot be reached between the Sanitary Authority and the Butchers, as to what steps could be arrived at which would enable the latter, without undue expenditure, to make the premises for slaughtering suitable to modern ideas of what such places ought to be. As far as possible the meat has been inspected; this is generally of excellent quality, and only in a few instances has there been any fault to find. The question of condemnation of meat in animals affected with tubercle is at present a very vexed one, and to my mind it certainly appears unfair that the Butcher should be made responsible for loss because tubercle is found in the organs of a beast, which before slaughter presented to all concerned all the appearance of robust health.

It has not been found necessary to take any action in reference to offensive trades, except in one instance where it was deemed advisable that alterations should be made in some premises carried on as a tripe boiling business.

I was appointed School Medical Officer in the autumn of the year. The necessary Medical Inspection was efficiently carried out by 5 Medical Practitioners appointed by the Education Authority for this purpose, and the results of this inspection have been duly noted in my Report to the Education Authority. The health of the school children has been remarkably free from epidemic disease, and though on several occasions scholars have been excluded from attendance on this account, in no instance has it been deemed necessary to close any of the Schools. The Sanitary condition of the Schools has been reported upon, and where children have been reported dirty, their homes have been referred to the Inspector for any necessary action to be taken.

The Factory and Workshops Act, 1901.—As appears from the Report of the Sanitary Inspector, there have been 222 inspections upon 90 workshops and 31 bakehouses; 57 defects were found and

21 written notices given. There are no underground bakehouses. The frequent complaints as to the nuisance arising from the chimney of the Electric Lighting Works have been removed by the erection of a suitable brick chimney.

The greater part of the poorer districts of the town has been systematically inspected, *by your Sanitary Inspector* and the resulting actions are found in his Report.

Many of the better houses have been inspected, and the drains tested by request or otherwise, and where found necessary improvements or alterations have been carried out. The Borough Surveyor has paid special attention to the cleansing and ventilation of the sewers; and, acting on his advice and investigations, the Sanitary Committee have erected 6 Webb's gas lamp ventilating shafts, and have also instructed him to erect 2 more, which are now ready for erection. 11 ordinary ventilating shafts, of six inches diameter, have also been fixed upon those lines of sewers where such were recommended as requisite. One of Mr. J. Brice Bell's patent ventilating shafts have been erected in Charles Street. From Mr. Shackleton's Report it appears, that by these means, the complaints of nuisance arising from the escape of sewer gas in these particular localities have been remedied, and the erection of further lamps or shafts, where such may be found necessary, is still engaging the attention of the Committee.

I append tables of statistics, and the Report of the Sanitary Inspector.

I am, Gentlemen,

Yours obediently,

H. POOLE BERRY.



Table 1. Vital Statistics of Whole District during 1908 and Previous Years.

NAME OF DISTRICT:—GRANTHAM URBAN SANITARY.

YEAR.	Population estimated to Middle of each Year.	BIRTHS.		TOTAL DEATHS REGISTERED IN THE DISTRICT.				TOTAL DEATHS IN PUBLIC INSTITU- TIONS IN THE DISTRICT.	Deaths of Non- residents registered in Public Institu- tions in the District.	Deaths of Residents registered in Public Institu- tions beyond the District.	NET DEATHS AT ALL AGES BELONGING TO THE DISTRICT.	
		Number.	*Rate.	Under 1 Year of Age.		At all Ages.						
				Number.	Rate per 1,000 Births registered.	Number.	*Rate.					
1898	16,653	525	31.52	90	171.1	348		33	20		315	18.91
1899	16,640	457	27.46	57	124.7	330		67	38		263	15.80
1900	16,627	511	30.73	60	117.22	302		52	33		269	16.17
1901	17,593	448	25.46	57	127.23	288		56	27		261	14.83
1902	17,677	451	25.51	51	113.02	278		49	27		251	14.19
1903	17,761	474	26.68	44	92.82	192		40	20		172	9.68
1904	17,845	479	26.81	60	125.26	291	16.30	46	23		268	15.01
1905	17,929	480	26.77	51	106.25	257	14.33	39	18		239	13.33
1906	18,013	484	26.86	65	131.25	326	18.01	44	19		291	16.15
1907	18,097	484	26.74	56	115.70	298	16.21	44	19		276	15.25
Averages for years 1898-'907	17,483.5	479.3	27.25	59.1	122.45	291.0	16.21	47.0	24.4		260.5	14.93
1908	18,181	496	27.28	59	118.95	271	14.96	37	18		253	13.91

* Rates calculated per 1,000 of estimated population.

Area of District in acres
(exclusive of area
covered by water), 1676

Total population at all ages
Number of inhabited houses
Average number of persons per house ..

17,593
3,732
4.71

At
Census
of 1901

I. Institutions within the District receiving sick and infirm per- sons from outside the District.	II. Institutions outside the Dis- trict receiving sick and infirm persons from the District.	III. Other Institutions, the deaths in which have been distributed among the several localities in the District.
Grantham Workhouse. Grantham Hospital.		
Is the Union Workhouse within the District?—Yes.		

Table II.

Vital Statistics of Separate Localities in 1908 and previous years.

NAME OF DISTRICT :—GRANTHAM URBAN SANITARY.

NAMES OF LOCALITIES.	LITTLE GONERBY.				GRANTHAM.				SPITALGATE.				HARROWBY.				NEW SOMERBY.			
	Population esti- mated to middle of each year.	Births registered.	Deaths at all Ages.	Deaths under 1 year.	Population esti- mated to middle of each year.	Births registered.	Deaths at all Ages.	Deaths under 1 year.	Population esti- mated to middle of each year.	Births registered.	Deaths at all Ages.	Deaths under 1 year.	Population esti- mated to middle of each year.	Births registered.	Deaths at all Ages.	Deaths under 1 year.	Population esti- mated to middle of each year.	Births registered.	Deaths at all Ages.	Deaths under 1 year.
1898 ..	3214	112	71	27	5463	155	100	25	5940	210	118	38	5940	210	118	38	5940	210	118	38
1899 ..	3208	87	52	11	5427	138	77	21	5917	197	78	20	5917	197	78	20	5917	197	78	20
1900 ..	3202	113	64	16	5391	150	67	18	5894	197	116	24	5894	197	116	24	5894	197	116	24
1901 ..	3567	98	59	17	5762	124	87	13	6553	191	95	23	6553	191	95	23	6553	191	95	23
1902 ..	3598	80	68	14	5767	133	90	13	6598	206	80	21	6598	206	80	21	6598	206	80	21
1903 ..	3629	106	47	9	5772	122	64	14	6643	205	71	16	6643	205	71	16	6643	205	71	16
1904 ..	3660	91	64	9	5777	128	64	13	6688	217	115	28	6688	217	115	28	6688	217	115	28
1905 ..	3691	104	53	11	5782	122	65	14	6733	210	104	24	6733	210	104	24	6733	210	104	24
1906 ..	3722	93	58	16	5787	120	88	16	6778	239	127	31	6778	239	127	31	6778	239	127	31
1907 ..	3753	98	47	8	5792	110	91	15	6823	225	116	32	6823	225	116	32	6823	225	116	32
Averages of Years 1898 to 1907.	3523.4	98.2	58.3	13.8	5672.0	130.4	79.3	16.2	6856.7	209.7	102.0	25.7	6856.7	209.7	102.0	25.7	6856.7	209.7	102.0	25.7
1908..	3784	97	50	10	5797	122	71	14	6868	247	115	32	6868	247	115	32	6868	247	115	32

Table III.

Cases of Infectious Disease notified during the Year 1908.

NAME OF DISTRICT :—GRANTHAM URBAN SANITARY.

NOTIFIABLE DISEASE.	CASES NOTIFIED IN WHOLE DISTRICT.						TOTAL CASES NOTIFIED IN EACH LOCALITY.						
	At all Ages.	At Ages—Years.					Little Gonerby.	Grantham.	Spitalgate.	Harrowby.	New Somerby.	Hospital.	Union.
		Under 1	1 to 5.	5 to 15.	15 to 25.	25 to 65.							
Small-pox													
Cholera													
Diphtheria (including Membranous croup)													
Erysipelas	23	2	5	8	5	4	1	5	13		3		
Scarlet fever	17		1	2	4	8		3	10		1		
Typhus fever	16		6	9	1			4	8		1		
Enteric fever	5			2		3	5					5	
Relapsing fever													
Continued fever													
Puerperal fever													
Plague													
Totals	61	2	12	21	10	15	1	13	31		5	5	

NO. OF CASES REMOVED TO HOSPITAL FROM EACH LOCALITY :—NIL.

Isolation Hospital—	} Grantham Borough Infectious Hospital, Spitalgate Hill.	Total available beds—about 25.	} Number of Diseases that can be concurrently treated } 2.
Name and Situation		More children have been accommodated in cots.	

Table IV.

Causes of, and Ages at, Death during Year 1908.

NAME OF DISTRICT :—GRANTHAM URBAN.

Causes of Death.	Deaths at the subjoined ages of "Residents" whether occurring in or beyond the District.							Deaths at all ages of "Residents" belonging to Localities, whether occurring in or beyond the District.							Total deaths whether of "Residents" or "non-Residents" in Public Institutions in District.
	ALL AGES.	Under 1 year.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and upwards.	Little Gonerby.	Grantham.	Spitalgate.	Harrowby.	New Somerby.	Hospital.	Union.	
Small-pox															
Measles															
Scarlet fever															
Whooping Cough	9	8	1					3	1	5					
Diphtheria (including Membranous croup)	1					1		1							
Croup															
Fever { Typhus															1
Enteric															
Other continued															
Epidemic influenza	1					1						1			1
Cholera															
Plague															
Diarrhœa	5	3	2					1	2	2					
Enteritis	1	1								1					
Puerperal fever															
Erysipelas															
Phthisis, (Pulmonary Tuberculosis.)	20			2	4	13	1	7	6	6		1		1	1
Other tuberculous diseases	13	4	3	2	2	2		1	4	7		1	1	1	2
Cancer, malignant disease	14					7	7	3	4	7				1	3
Bronchitis	20	4	3			2	11	3	6	8	1	2			
Pneumonia	14	4	3	1		4	2	3	4	6		1			1
Pleurisy															
Other diseases of Respiratory organs	5		1	1	1	1	1		4	1					
Alcoholism															
Cirrhosis of liver	1					1			1						
Venereal diseases															
Premature birth	6	6						1	2	3					
Diseases and accidents of parturition															
Heart diseases	22		1		1	11	9	2	7	11	1	1		2	4
Accidents	1					1			1				1		1
Suicides															
Other Septic diseases	4		1		2	1		1		3					
Old Age	29						29	5	9	14		1		2	6
Debility	21	20	1					3	4	12		2			1
All other causes	66	9	4	2	2	28	21	16	16	29		5	7	3	16
ALL CAUSES	253	59	20	8	12	73	81	50	71	115	2	15	9	10	37

Table V.

GRANTHAM URBAN BOROUGH DISTRICT.

Infantile Mortality during the Year 1908.

Deaths from stated Causes in Weeks and Months under One Year of Age.

CAUSE OF DEATH.	Under 1 week.	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Total under 1 Month.	1-2 Months.	2-3 Months.	3-4 Months.	4-5 Months.	5-6 Months.	6-7 Months.	7-8 Months.	8-9 Months.	9-10 Months.	10-11 Months.	11-12 Months.	Total Deaths under 1 Year.
ALL CAUSES :—																	
Certified	7	2	1	1	11	7	12	9	5	5	1	1	1	2	3	2	59
Uncertified																	
COMMON INFECTIOUS DISEASES :—																	
Small Pox																	
Chicken Pox																	
Measles																	
Scarlet Fever																	
Diphtheria (including Membranous Croup)																	
Whooping Cough						1		1	2		1	1	1			1	8
DIARRHOEAL DISEASES :—																	
Diarrhoea, all forms						1	1							1			3
Enteritis, Muco-enteritis, Gastro-enteritis																	
Gastritis, Gastro-intestinal Catarrh						1	1	1									3
WASTING DISEASES :—																	
Premature Birth	5				5				1								6
Congenital Defects						1	1	1									3
Injury at Birth																	
Want of Breast Milk, Starvation																	
Atrophy, Debility, Marasmus	2	1	1	1	5	3	5	3	1	1							18
TUBERCULOUS DISEASES :—																	
Tuberculous Meningitis								1		1							2
Tuberculous Peritonitis: Tabes Mesenterica											1						2
Other Tuberculous Diseases						1				1							2
OTHER CAUSES :—																	
Erysipelas																	
Syphilis																	
Rickets																	
Meningitis (not Tuberculous)																1	1
Convulsions																	
Bronchitis	1				1	1											2
Laryngitis						1	1	1							1		4
Pneumonia						1	1	1									4
Suffocation, overlying																	
Other Causes						1			1					1			3
	7	2	1	1	11	7	12	9	5	5	1	1	1	2	3	2	59

District of Grantham Urban.

Population, 18181.
Estimated to middle of 1908.Births in the year { legitimate .. 474.
illegitimate .. 22.Deaths in the year { legitimate infants .. 51.
illegitimate infants .. 8.

Deaths from ALL CAUSES AT ALL AGES ... 253.

Inspection of Factories, Workshops and Workplaces.

Including Inspections made by Sanitary Inspectors or Inspectors of Nuisances.

Defects found in Factories, Workshops and Workplaces.

Registered Workshops.

Workshop on the Register (s. 131) at the end of the year.								Number.
Important classes of workshops, such as workshop bake- houses may be enumerated here.	Bakehouses	..	..	..	..	..	..	31
	Pea-picking Sheds	..	..	..	..	..	..	1
	Other Workshops	..	..	..	..	..	..	89
	Total number of workshops on Register							..

Annual Report

OF THE

SANITARY INSPECTOR,

FOR THE YEAR 1908.

To the Chairman and Members of the Sanitary Committee.

GENTLEMEN,

I have the honour to submit my Second Annual Report, shewing a summary of work carried out and Sanitary Improvements effected during the year.

Your district has been regularly and systematically visited and inspected during the year, and in some of the poorer parts of the town a house-to-house inspection has been made.

NOTICES.—In addition to a large number of notices and letters sent to owners and occupiers, many verbal notices were also given with respect to the abatement of nuisances. It was found necessary in nine cases to serve statutory notices, but in no instance was it necessary to take legal proceedings.

DRAIN TESTING.—Thirty-one applications were made by owners or occupiers to have drains tested. The new drain testing machine, purchased a few months ago, is a considerable improvement upon the old machine.

In nearly all instances where the smoke test was applied, defects were found either in the drains, soil pipes, or sanitary fittings, some being of a very serious character.

Special reports were made to the owners or occupiers in every case, and remedial measures were always carried out. It is satisfactory to note that many householders are fully alive to the importance of having sound drains and fittings on their premises.

Your Committee having now fixed a nominal fee of half-a-crown for testing drains, it is to be hoped that further advantage will be taken of this means of locating defects.

DISINFECTION.—All premises where cases of infectious disease occurred have been inspected in order to ascertain the condition of the Sanitary arrangements.

The inspected rooms were disinfected upon notice being received of the recovery of the patients, and the bedding, &c., removed to the steam disinfector for disinfection. The disinfection of rooms is effected by gasifying Formalin Tablets or solid Formaldehyde, by means of an Alformant Lamp, and also by spraying the walls, floors, &c., with a three or four per cent. solution of Formalin.

SLAUGHTER HOUSES.—There are on the register twenty-four registered and nine licensed Slaughter Houses. These have been frequently visited during the year, and the constant supervision, which at first was somewhat resented by a few of the occupiers, has, to a great extent, had the effect of causing the Bye-Laws to be more strictly regarded.

FOOD AND DRUGS.—During the year the following samples were procured, under the sale of Food and Drugs Acts, for Analysis by the Borough Analyst, viz.:—31 milk, 9 butter (2 informal), 2 lard, 1 coffee, 2 pepper, 2 sweet spirit of nitre. Of these, 25 samples of milk were pronounced genuine and 6 adulterated. Proceedings were taken against the vendors of the latter, and the total penalties imposed amounted to £4 10s. od. and £1 12s. od. costs. The samples of butter, lard, coffee, pepper, and sweet nitre, were found to be genuine.

Tables containing the details of work done in my department are appended.

My thanks are due to the Chairman and Members of the Sanitary Committee for their appreciation of my efforts during the year. Also to Dr. Poole Berry and Mr. Shackleton for their kind assistance at all times.

I am, Gentlemen,

Your obedient Servant,

S. FRANCIS NOTT, Assoc. R. San. Inst.,
Sanitary Inspector.

Guildhall, Grantham.

TABLE NO. I.

Article Analysed.	No. on Regis- ter.	Nature and Amount of Adulteration.	Act under which Proceedings taken.	Result.	
				Fines.	Costs.
New Milk	...	...	...	£ s. d.	£ s. d.
Ditto	...	7 per cent added Water	Sale of Food and Drugs Acts...	1 0 0	0 5 0
Ditto	14	10 parts ditto	Ditto,	0 15 0	0 5 0
Ditto	16	11 parts ditto	Ditto,	0 15 0	0 5 0
Ditto	19	13 parts ditto	Ditto,	1 0 0	0 5 0
Ditto	31	Abstraction Fat 6 per cent. ...	Ditto,	0 10 0	0 6 0
Ditto	34	15 parts added Water ...	Ditto,	0 10 0	0 6 0

TABLE No. II.
 SALE OF FOOD AND DRUGS ACTS.

Summary of Samples procured for Analysis during year 1908.

Nature of Article.	No. of Samples taken.	Genuine.	Adulterated.	Convictions.	Dismissed or Withdrawn.	Penalties Imposed.	
						Fines.	Costs.
Milk	...	...	...	...	...	£ s. d.	£ s. d.
Butter	...	...	...	...	...	4 10 0	1 12 0
Lard	...	...	...	...	...		
Coffee	...	...	...	...	...		
Pepper	...	...	...	...	...		
Sweet Spirit of Nitre	...	...	...	...	...		

TABLE III.

Miscellaneous inspections	...	...	...	1121
Re-inspections	...	...	...	463
Visits to slaughter houses	...	...	...	1560
„ workshops (including bakehouses)	...	...	...	222
„ dairies, cowsheds and milk shops	...	...	...	52
„ fish, fruit and vegetable markets	...	...	...	80
„ stock market	...	...	...	44
„ infected houses	...	...	...	95
„ schools	...	...	...	20
„ offensive trade premises	...	...	...	12
Total	...	...	...	3669

Number of slaughter houses on register	...	...	...	32
„ workshops on register	...	...	...	121
„ dairies, cowsheds and milk shops on register	...	...	...	41
„ common lodging houses on register	...	...	...	3
Number of preliminary notices served	...	...	...	309
„ statutory notices served	...	...	...	9
„ rooms disinfected	...	...	...	34
„ drains tested	...	...	...	41
„ samples of water taken for analysis	...	...	...	7

TABLE IV.

Sanitary Improvements Carried Out.

Drains cleansed	...	...	...	70
„ repaired or relaid	...	...	...	37
Water closets cleansed	...	...	...	50
„ repaired	...	...	...	22
„ provided with water and flushing apparatus	...	...	...	291
New water closets provided	...	...	...	22
Privies converted into water closets	...	...	...	5
Sink waste pipes disconnected	...	...	...	11
New sinks provided	...	...	...	5
Soil pipes renewed or repaired	...	...	...	14
Additional water closets provided	...	...	...	24

Urinals repaired or renewed	...	...	...	4
Spouting repaired	...	...	...	12
Roofs repaired	...	...	...	6
Downspouts disconnected and trapped	...	...	...	9
Yards paved	...	...	...	14
„ cleansed	...	...	...	3
Rain-water cisterns cleansed	...	...	...	6
Additional Ashbins provided	...	...	...	11
Manure receptacles repaired	...	...	...	3
„ „ provided	...	...	...	2
Overcrowding abated	...	...	...	2
Houses cleansed	...	...	...	8
Fowls kept so as to be a nuisance, removed from premises	...	...	...	30
Pigs „ „ „	...	...	...	9
Offensive accumulations removed	...	...	...	26
Workshops cleansed	...	...	...	16
Drains removed from bakehouses	...	...	...	5
Ventilation of workshops improved or provided	...	...	...	3
Separate water closet accommodation provided	...	...	...	1
Workshop water closets defective or unsuitable	...	...	...	3
Total	...	...	...	<u>724</u>

TABLE V.

Articles Disinfected by Steam Disinfector.

Mattresses	...	...	...	44
Beds	...	...	...	35
Bolsters or pillows	...	...	...	85
Sheets	...	...	...	20
Blankets	...	...	...	83
Counterpanes	...	...	...	22
Curtains or bed hangings	...	...	...	24
Carpets or mats	...	...	...	35
Articles of male clothing	...	...	...	30
„ female „	...	...	...	64
Miscellaneous	...	...	...	90
Total	...	...	...	<u>532</u>

