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URBAN SANITARY AUTHORITY

ANNUAL REPORT

— OF —

THE MEDICAL OFFICER OF HEALTH,

For the Year 1919.

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CITY OF LINCOLN.

ANNUAL HEALTH REPORT FOR 1919.

BY

C. J. COLEMAN, M.D., M.A., D.P.H.

Medical Officer of Health.

MEMBERS OF THE HEALTH COMMITTEE,

ALD. H. A. COTTINGHAM (MAYOR).

ALD. M. H. FOOTMAN (Chairman). COUN. F. GRAVES

COUN. C. T. PARKER

" W. H. KILMISTER

" J. SMALLEY

" J. HAGUE

" A. RAMSAY

" M. E. NEVILE

SANITARY STAFF (Chief Officials).

December, 1919.

Medical Officer of Health:

C. J. COLEMAN, M.D., M.A., D.P.H.

Consulting Sanitary Adviser:

CHARLES HARRISON, M.D., D.P.H.

Assistant Medical Officer of Health:

J. RAMSBOTTOM, M.B., D.P.H.

Public Analyst:

E. M. CHAPLIN, Ph.D., F.I.C.

Acting Chief Sanitary Inspector:

CHAS. STREET, C.R.S.I., C.M.I.

Assistant Sanitary Inspectors:

A. GARNER, C.R.S.I. H. HOE, C.R.S.I.

Chief Health Visitor:

Miss E. M. DAVIES (Trained Nurse), C.R.S.I., C.M.B.

Phthisis Nurse:

Nurse A. WOOD.

Matron of the City Hospital:

Miss E, O'KANE.

HEALTH DEPARTMENT,

CORPORATION OFFICES,

LINCOLN,

July, 1920,

MR. MAYOR AND GENTLEMEN,

I have the honour to submit to you my report on the health and sanitary conditions of Lincoln during 1919.

During the past year the responsibility of the Health Officials with respect to the inspection of food supplies for the City, subject to Government control, has been fully maintained.

The reorganisation of the Health Office to cope with present demands and the future extension of Boundaries, has been discussed by the Health Committee, and is receiving further attention.

The New Maternity Home was opened last September, and is supplying a long felt need in our Public Services.

I remain, Gentlemen,

Your obedient Servant,

C. J. COLEMAN.

CITY OF LINCOLN.

STATISTICAL SUMMARY FOR 1919.

Population at Census, 1911			57,285
Estimated Population by Registra middle of 1919	For		63,107 60,581
Area of Municipal Borough		(acres)	3,755
Average Number of persons per acre		***	17.4
Birth-rate per 1,000 Population, 1919)		18.2
Death-rate, 1919, per 1,000			11.98
Zymotic Death-rate (exclusive of In-	fluenza),	per	
1,000			.38
Infantile Mortality, per 1,000 Births			79.0
Phthisis Death-rate, per 1,000			.94
Respiratory Diseases Death-rate, per	1,000		2.4
Malignant Diseases Death-rate, per	1,000		.94

NATURAL AND SOCIOLOGICAL CONDITIONS OF THE DISTRICT.

THE AREA OF THE MUNICIPAL BOROUGH is 3,755 acres, and is divided into North and South Districts by the River Witham. The district on either side of the river, especially to the south, is flat, and the soil consists of river alluvium. To the north, the land rises to a considerable eminence, on which the Cathedral stands; this is the northern escarpment of the Lincoln Gap. To the south, the Canwick Hill forms the southern escarpment, and the valley through which the river flows towards the Wash is the gap formed by the prehistoric Trent. The geological formation of the hills to the north and south is oolitic limestone. The slope of the northern hill as it descends to the river is mostly covered with clay.

POPULATION.

Census of	1871	 	26,766
do.	1881	 	37,312
do.	1891	 	41,491
do.	1901	 	48,784
do.	1911.	 	57,285

Estimated population by Registrar General at the middle of 1919: For Birth-rate 63, 107. For Death-rate 60,581.

The estimate of the population for 1919 is made by the Registrar-General, who makes allowances for males formerly resident in the district who have since joined the Army. He also makes an estimate of the extra military population resident in the city.

He thus calculates that the Death-rate should be estimated on a population of 60,581, which represents the civilian population, but that the Birth-rate should be estimated on a higher population, which represents a total of civilian and military, and which he gives as 63,107.

Employment.

The staple employment of Lincoln is furnished by the large iron foundries situate near the river bank to the south of the City. According to the figures by the 1911 Census 19,928 males were engaged in various occupations, and of this number no less than 9,576 (i.e., nearly half) were engaged in engineering, machine, and miscellaneous metal trades. 1,741 were employed in various branches of the building trade. This number was greatly increased during the war.

Before the war there were no manufacturies which employed women to any large extent. Out of a total of 5,692 employed females at the last Census 2,434 (somewhat less than half) were engaged in various forms of domestic service. The total of employed females was greatly increased during the war by women doing munition work.

Vital Statistics.

DEATHS.

During the year 856 deaths were registered; these divided into sexes for each quarter are—

	M.	F.	Total.
1st quarter	185	136	321
2nd ,,	116	89	205
3rd ,,	80	62	142
4th ,,	104	84	188
	485	371	856
	-		

The total compares with previous years as follows:-

1905	 	962	1912	 	797
1906	 	877	1913	 	772
1907	 	807	1914	 	804
1908	 	767	1915	 	929
1909	 	775	1916	 	868
1910	 	782	1917	 	878
1911	 	874	1918	 	1,149
			1919	 	856

Eighty-three persons died in the Workhouse, 105 in the County Hospital, 20 in the City Hospital, 4 in the Lawn Asylum, 6 in the Red House Nursing Home, 36 at the 4th Northern Hospital, 1 in the Small Pox Hospital, and 1 in the Maternity Home.

The Registrar-General now sends particulars of deaths of Lincoln residents who die elsewhere, but whose deaths must be added to the total of deaths registered locally; he also gives the number of people who have died in Lincoln during the year, but who are not residents in the locality, and this number must be subtracted from the total number of local deaths. I have, therefore, added 21 deaths to the total of 856, and subtracted 151 deaths. This leaves 726 deaths of Lincoln residents for the year 1919, which forms the basis for my future analysis.

As the deaths of Lincoln residents in 1919 were 726, and the population at the middle of the year as regards death rate is estimated at 60,581, the death-rate per 1,000 of the population is 11.98.

As regards the usual Zymotic diseases the death-rate was .38 per 1,000, but if influenza is included the figure is much greater, i.e., 1.4 per 1,000. There has been no appreciable decline in the death rate from Phthisis.

			1916,	1917.	1918.	1919.
Zymotic Diseases,	death rate	per 1,000	.24	.12	.68	.38
Respiratory "	"	,,,	_	2.18	2.34	2.40
Phthisis "	,,	,,	.99	1,10	.95	.94
Other Tuberculous Diseases	,,	,,	.29	.22	.11	.24
Malignant Disease	s ,,	,,	1.18	1.10	.95	.94

CAUSES OF, AND AGES AT, DEATH DURING THE YEAR 1919.

CAUSES OF DEATH	- 11	hether	1 and	and under	5 and	d ages r without 15 and under 25 y'rs	25 and	45 and	65 and	Total Deaths whether of re- sidents or non- residents in Institutions in the District
All Causes { Certified Uncertified	720	89	20	21	34	28	82	188	258 2	::
1 Enteric Fever	1 6 6	2					1			1 1 1
7 Influenza	63 57 5 15 57	2 4	1 1	3	2 4 4 3	5 12 2	18 28 1 2	20 12 2 33	11 22	32 19 2 5 25
13 Rheumatic Fever	5 7 61 77 57	3 11 15	1 1 2 4	1 2 2	1 1 2 1	1 2	1 8 1 6	1 1 23 18 15	1 30 42 13	2 1 12 9 8
Organs 19 Diarrhœa and Enteritis 20 Appendicitis and Typhlitis 21 Cirrhosis of Liver 21a Alcoholism 22 Nephritis and Bright's Disease	18 11 1 2	1 7 	i i	i i	1 2		2 1 2	11 1	3 1 6	2 4 1
23 Puerperal Fever	6				1	1	4			2
mature Births	35 9 2 138	35 11	2	1 6	2 6	1 3	2 1 5	1 1 1 44	2 61	4 1 90
known	68	::		::				i	67 	12
TOTALS	726	92	20	21	34	28	83	188	260	255

INFANTILE MORTALITY.

Ninety-two deaths occurred in Infants under one year of age, giving a mortality of 79 per 1,000 births. Forty deaths occurred within a month of birth.

Premature Birth, Atrophy, Malformation and Debility were responsible for 35 deaths, and form the largest factor in the mortality.

Pneumonia and Bronchitis were responsible for 26 deaths.

As regards Zymotic Diseases, two deaths were due to Whooping Cough.

Diarrhœa and Gastro-Enteritis caused seven deaths.

Attempts to reduce Infant Mortality were never more important than in the present crisis, as the future welfare of the nation will depend upon the vitality and numbers of the coming generation.

INFANTILE DEATH INQUIRIES.

Number of deaths investigated, 80:-

		/			18
fed					34
artifici	al food				4
y after	birth				24
					_
			Tot	a1	80
	fed artifici		fed artificial food	fed artificial food y after birth	fed artificial food

HOUSING CONDITIONS NOT FAVOURABLE TO INFANT HYGIENE.

,,	with no through v	entilat	ion	 	 8
,,	dirty and ill-kept			 	 6
,,	overcrowded	***		 	 3
,,	with two families			 	 I

INFANT MORTALITY TABLE.

1919. Nett Deaths from stated causes at various Ages under 1 year of age.

7 	5	4	38 2	13 	15 1 1 1 2	12 1 1 3 3	11	89 3 2 2 2 3 6 1 11 15
			3	1 1 1 4	1 1 1 2	1 3		2 2 2 2 3 6 1 11
			3	1 1 1 4	1 1 1 2	1 3		2 2 2 2 3 6 1 11
		··· ·· ·· ·· · · · · · · · · · · · · ·	3	1 1 1 1 1	1 1 1 2	· · · · · · · · · · · · · · · · · · ·	1 1 1	2 2 2 2 3 6 1 11
		··· ·· ·· · · · · · · · · · · · · · ·	3	1 1 1 4	1 1 1 2	· · · · · · · · · · · · · · · · · · ·	1 1 1 1	2 2 2 2 2 3 6 1 11
		··· ··· ··· ·· ·· ·· ·· ·· ·· ·· ·· ··		1 1 1 4	1 1 1 2	· · · · · · · · · · · · · · · · · · ·	1 1 1 1	2 2 2 3 6 1
		:: :: :: :: :: :: :: :: :: :: :: :: ::		1 1 1 ···	1 1 2	1	··· 1 ·· 1 1 1	2 2 2 3 6 1
		··· ··· ··· i ··· i ··· i ··· i i		1 1 1 	1 1 2	1 1 3	1 1 1 1	2 2 3 6 1
		· · · · · · · · · · · · · · · · · · ·		1 1 1 	1 1 2	1 1 3	1 1 1	2 2 3 6 1
	2	··· ··· ··· ··· ··· ··· ··· ···	3	1 1 	1 1 2	1 1 3	1 1 1 1 1 1	2 2 3 6 1 11
	2	1 1 1 1	3	1 1 	1 2		1 1	2 3 6 1 11
	·	1 1 1	3	1 4	2	 1 3	1 1	2 3 6 1 11
	2	1 1 1	3 3	4	2	i 3	1	1 11
	2	1 1	3	4		i 3	1	111
	2	1	3	4		1 3	1	11
		ì		4		3	3	
			2	2	4		4	1.5
			1			- 3	1 1	
				l	2			2
					2	2		4
			1			1		1
				1				1
			1	1	1888	1000	10000	
		100000	l		1000	1		
		1	1	1				1
	100		2			1	2000	2
	100		1			1000		1
		1	21	i				22
							1000	
2			6	1		1	1	9
			1			1	2	7
				1			-	
		-	1	10	1.0		11	0.0
7	5	4	40	13	16	12	11	92
	7 Net days	1 3 3 3 7 5	1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 1	1	1	1

BIRTHS.

During the year 1919, 1,160 births were registered, of which 86 were illegitimate. These divided into sexes for each quarter of the year, were as follows:—

		Males	Females	Total
lst Quarter	 	 111	106	217
2nd Quarter		 138	134	272
3rd Quarter		147	154	301
4th Quarter	 	 183	187	370
Totals	 	 579	581	1,160

The per centage of Illegitimate Births to total Birth Rate is given in the table below for the last six years:—

Information supplied by Registrar-General showed that there were 14 outward transfers and 12 inward, leaving a balance of two births to be subtracted. The nett number of births belonging to the City of Lincoln is therefore 1,158. The Birth-rate for the year was 18.2 per 1,000 of the population, calculated on a basis of 63,107, the figure given by Registrar-General.

Comparative Table of Birth-rate, Death-rate and Infantile Mortality as far as ascertainable in 1919:—

	Death-rate per 1,000	Birth-rate per 1,000	Infantile Mortality per 1,000 Births
England and Wales	13.8	18.5	89.
96 Greater Towns, including London	13.8	19.0	93 -
148 Smaller Towns	12.6	18.3	80-
London	13.4	18.3	85.
Lincoln	11.98	18.2	79

VITAL STATISTICS OF WHOLE DISTRICT DURING 1919 AND PREVIOUS VEARS.

			Births.	3		Deaths ed in the	75	ferable ths.		Deaths be	elonging to	o the
	Population		Ne	tt,	Dist	rict.		22	Under	1 year.	At all	Ages.
YEAR.	estimated to Middle of each Year.	Uncor- rected Number.	Number,	Rate,	Number,	Rate.	Of Non-resi- dents regis- tered in the District.	Of residents not registered in the District.	Number.	Rate per 1,000 Nett Births.	Number.	Rate.
1	2	3	4	5	6	7	8	9	10	11	12	13
1914	60,172	1,335	1,336	22.2	804	13.3	74	21	123	92.1	751	12.4
1915	55,226	1,189	1,182	21.4	929	16.2	142	42	118	99-9	829	15.1
1916	55,078	1,272	1,271	21.2	868	15.2	142	26	96	75.5	752	13.6
1917	65,341	1,110	1,113	17.0	878	14.9	149	48	95	85.3	777	13.2
1918	BR67,348 DR 60,707	1,204	1,206	17.9	1,149	18.9	266	36	87	72.	919	15.3
1919	BR 63,107 DR 60,581	1,160	1,158	18.2	856	14.1	151	21	92	79.	726	11.98

Area of District in acres 3,755 (land and inland water)

Total Population at all ages ... 52,285 At Census Total families or separate occupiers 13,281 1911.

Preservation of Infant Life.

NOTIFICATION OF BIRTHS ACT.

Under the Notification of Births Act, every birth should be notified to the Medical Officer of Health within 36 hours. This should be done by a person in attendance at the time or within six hours of the occurrence, and by the father of the child if resident in the house at the time. This Act does not affect the registration of the Birth with the Registrar.

During the year it was found necessary to send out 171 Notices to parents, pointing out their duties under this Act, and asking them to comply forthwith. In every case the warning given was followed by receipt of the proper notification.

The work of the year may be briefly summarised as follows :--

Birth enquiry	visits				 960
,, ,,	re-visits				 3275
Notices sent	out re No	otification	on of	Births	 171

HOUSING CONDITIONS.

Houses where parent			-		67
ing separa					71
,, with no thro	100				14
,, with unsui	table	food	stor	rage	
accommod	ation				14
,, overcrowded					21
,, dirty and ill-	-kept				20
,, dark					9
,, damp .					I
NUISANCE	S D	ISCO	VERI	ED.	
No ashes bins					25
Defective ashes bin	S				38
Water-closets defect	ive				24
Drains choked					12
Various defects					18

INFANT WELFARE CENTRE.

The commodious premises at 34, Newland, continue to give general satisfaction.

In addition to good office and clinic accommodation there is a fine open yard and shelter for perambulators.

The rooms at the Centre are light and airy, and are warmed by hot-water pipes.

CLINIC REPORT.

1,537 mothers with babies attended the Centre during the year.

Total number of attendances made, 7,825.

The following table summarises the attendance at the Centre during the year 1919:—

No. of Babies first visits.		No. of atte babies w previously	ho have	Kesteven Babies	Total
Under 2 yrs	Over 2 yrs.	Under 2 yrs.	Over 2 yrs.	Attend- ances.	Total
649	52	6,325	179	620	7,825

Of the previous number (1,537) 634 were seen by the Doctor, and made a total of 1,170 attendances. Of these: Referred to Hospital ,, ,, District Nursing Association 13 ,, ,, Private Doctor 23 ,, Dispensary 44 Voluntary workers assisting at Centre 15 Attendances made by Voluntary Workers ... 273 Callers at Office other than Mothers and Babies 1,103 ANTE-NATAL CASES. Sixty-nine Expectant Mothers applied to the Centre. Medical advice and treatment given Transferred to County Hospital ... 2 Normal cases ... 14 Milk allowed 20 Food and milk allowed 24 Total ... 60 POST-NATAL CASES. Seventy-one Mothers applied on their own behalf after childbirth. Medical advice and treatment given Normal cases ... 66 Of these:-Milk allowed 51 Food and milk allowed 13 Transferred to private doctor . 1 ,, ,, hospital ... Total ... 66 NECESSITOUS CASES. Home Helps provided 39 Home Nurses ,, ... Children under 5 years supplied with cow's milk 120

Children under 2 years of age supplied with

144

Dried Milk below cost price

MATERNITY HOME.

The Home	was or	pened on	1st Se	ptember,	1919.
----------	--------	----------	--------	----------	-------

Cases admitted				 36
Patients discharged				 30
Patients still in the	Home	Ist	January	 6
Private doctors in a	ttendar	ice		 4

Three Pupil Midwives were accepted and started work on 11th October, 1919.

DISTRICT MIDWIFERY.

A Municipal Midwife was appointed in July, and commenced work in October.

Cases attended from 11th October-31st December ... 107

Midwives' Act.

Six Midwives gave notification of their intention of practising during the year.

Twenty-three records of sending for medical help were notified to the Maternity and Child Welfare Department, in accordance with the requirements of the Central Midwives' Board, also:—

- 2 records of death of mother.
- 1 record of septic infection.
- 27 still-births were notified.

Twenty-four visits of inspection to Midwives were made, re their house, bag and appliances.

NOTIFICATION OF OPHTHALMIA NEONATORUM,

Cases	notified b	y Medi	cal Pract	itioners	 - 5
,,	,, ,,	Midv	vives		 4
Visits	paid by	Health	Visitors		 15
,,	,,,	Nurses			 36

Prevalence and Control of Acute Infectious Disease.

SCARLET FEVER.

During 1919 there were 100 cases of Scarlet Fever notified in the City, as compared with 133 cases in 1918.

The number of cases notified in each year for the past ten years is given below:—

1910-170	1915-119
1911—221	1916—148
1912-97	1917—133
1913-92	1918—133
1914-170	1919—100

There were no deaths attributable to this disease which is a sufficient guarantee of its mild character.

Sixty-four of the notified cases were removed to the City Hospital.

As in previous years the Medical Officer of Health offered his services to medical men in cases of doubtful diagnosis.

On the notification of a case, details of the sanitary condition of the premises and any possible source of infection were investigated.

DIPHTHERIA.

Seventy-two cases of Diphtheria were notified during 1919, as compared with 61 notifications in 1918.

Six deaths resulted from this cause, giving a case mortality of 8.3 per cent.

1908	case	mortality	12.5	1914	case	mortality	9.4
1909	- 1	• • • • • • • • • • • • • • • • • • • •	11.0	1915	- 11	73	19.6
1910	,	"	8.5	1916	2.2	**	5.1
1911	23	,,	6.9	1917	33	,,	9.6
1912	,,	,,	2.4	1918	,,	,,	6.5
1913	,,	,,	4.4	1919	,,	,,	8.3

The notifications received during the last ten years are as follows:—

1910-152	1915-56
1911-145	1916-78
1912-122	191752
1913- 67	1918-61
1914- 95	1919-72

Sixty-three of the cases were removed to the City Hospital.

TYPHOID FEVER.

Five cases of Typhoid Fever were notified in 1919. There were no deaths.

Four cases were removed to Hospital.

SMALL-POX.

Two cases were notified, both were removed to the Small-Pox Hospital. The first case on 5th April, and the second on 10th April. Both had been vaccinated in infancy, and made a good recovery without any untoward effect.

It is worthy of note that a case of Small-Pox occurred in the 4th Northern Territorial Hospital, on 20th February, the soldier having apparently been infected just prior to leaving Alexandria. He had previously been vaccinated, and was removed to the Small-Pox Hospital. The disease ran a mild course, and he made an uninterrupted recovery.

Unfortunately, a soldier contact in the same Ward at the 4th Northern Hospital, who had never been vaccinated, contracted the disease, and was removed to the Small-Pox Hospital on 8th March. The disease was severe, and he died on 17th March.

It was not found possible to connect the incidence of the two cases in the City with the outbreak at the 4th Northern Hospital. A month had elapsed, from the removal of the last military case to Hospital, and the notification of the first civilian case.

A Medical Officer of the Ministry of Health came over to Lincoln at the time to confer with me and assist in the investigations.

I should like to acknowledge the help given by the Staff at the City Hospital and Health Office, which was of the utmost importance, and succeeded in arresting any further spread of the disease.

It may be noted that the last outbreak in Lincoln occurred in 1904.

Prevalence and Control over Tuberculosis.

PULMONARY TUBERCULOSIS.

Under the Tuberculosis Regulations, 1912, 56 cases of Phthisis were notified.

The total number of deaths from Phthisis in 1919 was 57, and equivalent to a death-rate .94 per 1,000.

DEATHS FROM	A PHTHISIS	SINCE I	906.
-------------	------------	---------	------

Year	Est Pop,	Deaths	D.R. per 1000	Year	Est Pop.	Deuths	$\begin{array}{c} D.R.\\per\ 1000 \end{array}$
1906	52,611	51	.95	1913	59,322	57	.96
1907	53,341	68	1.38	1914	60,172	44	'73
1908	54,017	68	1.30	1915	55,226	55	. '99
1909	54,765	63	1.18	1916	55,079	55	.99
1910	55,474	45	.85	1917	58,617	65	1.10
1911	57,285	60	1'40	1918	60,707	64	'95
1912	58,358	56	.96	1919	60,581	57	. 94

FORMS OF TUBERCULOSIS OTHER THAN PHTHISIS.

There were 32 cases notified under the above head, giving the following classification:—

Tuberculosis	0	f Glands in	neck			7
,,	,,	Joints				8
,,	,,	Bone				5
**	>>	Peritoneur Glands		Meser 	ntery	6
,,	,,	Meninges				5
,,	"	Larynx				I
						-
						32

ADMINISTRATIVE MEASURES in force in Lincoln for dealing with Tuberculosis.

These have been given fully in the report for 1914.

Arrangements have now been completed for advice and treatment to be given at the Dispensary for Dawber patients as well as facilities for institutional treatment. 174 insured persons and 75 Dawber patients attended the Dispensary in 1919.

The Phthisis Nurse paid 4,372 primary visits to patients during the year, inclusive of 1,162 re-visits to bed-ridden cases.

I would venture to call attention to certain experiments which are being carried out in the management of Labour Colonies for Tuberculosis patients. They are considered by experts likely to be of more use than Sanatoria, and patients should have the opportunity of proceeding to one of these if they wish on their discharge from Sanatorium. At present there are no Labour Colonies in Lincolnshire, but it would seem that some of the demobilised Aircraft Camps could have been adapted for this purpose.

Influenza Epidemic in 1st Quarter of 1919.

Administrative Measures taken in Lincoln to check Influenza.

Nearly the whole of the cases occurred in the 1st Quarter of the year.

There were 63 civilian deaths from Influenza:—34 males and 29 females.

Of the 34 male deaths:-

2	died	between	the age	of 1	an	d 5
1		,,	,,	5	,,	15
9		17	>>	15	,,	25
10		,,	31	25	9.9	45
9		,,	,,	45	,,	65
3		,,	,,	65	,,	upwards.

Of the 29 female deaths: -

4	died	between	the age	of 1	an	d 5
0		,,	,,	5	,,	15
2		"	**	15	,,	25
10		,,	,,	25	,,	45
8		,,	,,			65
5		"	,,	65	,,	upwards.

There were 18 deaths of soldiers in Military Hospitals in addition to the civilian deaths.

Posters on precautions against Influenza were put up by order of the Health Committee; in addition this poster was advertised in the Local Papers. I believe it had good effect.

Two of our School Nurses; Nurse Woods, Tuberculosis Nurse; and Mrs. Hubbard, Health Visitor, were available for paying special visits to homes; 130 visits were paid, and 27 patients were visited.

Two cases were removed to the City Hospital for treatment.

By the kindness of Mr. Kent, as Trustee of the Dawber Charity, it was possible to advertise for Home Helps in houses where the mother was ill. In 24 cases Home Helps were sent.

This assistance was much appreciated by the public.

Arrangements were made with the Public Places of Amusement to prevent continuous performance of long duration, for the disinfection of the Halls before Performances, and for the exclusion of children under 14 years of age, during the period of School closure.

The Elementary Schools were closed for a period of about three weeks.

Vaccine was offered to various Hospitals and Institutions, and to any practitioner desirous of availing himself of its use.

A large number of the deaths in the epidemic were due to pneumonic condition of the lungs,

CASES OF INFECTIOUS DISEASES NOTIFIED DURING THE YEAR 1919.

			NU	MBER (F CASES	NOTIFIED).	
NOTIFIABLE DISEASES.					At all Ages-	-Years,		
	At all ages.	Under 1.	1 to 5,	5 to 15.	15 to 25	25 to 45.	45 to 65.	65 and upwards.
Small Pox	2			**	1	1		
Cholera (C) Plague (P)					***			
Diphtheria (including Membranous croup)	72	1	10	52	6	3	***	***
Erysipelas	21		2	3	4	7	5	
Scarlet Fever	100	1	15	72	7	5		
Typhus Fever				٠				
Enteric Fever	5				2	3		
Relapsing Fever (R) Continued Fever (C)	***	***						
Puerperal Fever	1	***	145		1			***
Cerebro-spinal Meningitis				***	***			***
Poliomyelitis					***		**	
Ophthalmia Neonatorum	3	2	1					
Pulmonary Tuberculosis	56		1	- 11	18	17	7	2
Other forms of Tuberculosis	32	1	4	14	8	5		
Measles	35	1	14	17	3	***		
Malaria	4				. 2	2	***	
Encephalitis Lethargica	3 -	1000		***	1	1	1	141
Pneumonia (All Forms)	55		2	6	28	11	8	
TOTALS	389	6	49	175	81	55	21	2

MEASLES.

During the year 35 cases were notified, fortunately there were no deaths.

These figures compare with 1,330 cases notified in 1918 and 27 deaths.

Measles is a disease which attacks a locality with a somewhat irregular incidence, but is usually present in severe Epidemic form every third or fourth year.

Notification of this disease has now been withdrawn as from 1st January, 1920.

CEREBRO-SPINAL FEVER.

There were no cases notified during the year.

WHOOPING COUGH.

Quoting from School Report, I am able to give the cases of Whooping Cough arising in the Schools during 1919

The following gives the monthly incidence :--

Six deaths due to this disease occurred during the year.

CITY HOSPITAL

(Dawber Sanatorium Pavilion.)

Sixteen cases remained in at the end of 1918.

160 fresh cases were admitted during the year, 51 of these being Discharged Soldiers.

35 cases remained in at the end of 1919.

129 cases were discharged improved, and 12 died in Hospital.

(FEVER PAVILIONS).

180 cases were under treatment in the City Hospital Pavilions during 1919, 20 of these cases remaining in from 1918.
22 of these were military patients.

Of 160 fresh cases admitted during 1919 there were :— Civilians 138—

Scarlet Fever	Diph- theria.	Typhoid.	Cerebro Spinal.		Measles		Chicken Pox.	Erysipe- las.	Scabies	Tonsil- itis.	Small Pox.
64	63	4	0	0	I	2	0	I	0	0	3
	Mili	tary 22	2—								
5	2	2	2	2	4	0	I	0	I	I	2
_	_	-	-			-		_	-	-	
69	65	6	2	2	5	2	I	I	I	I	5
-	_	-	-	_	-	-			-		-

I should like to acknowledge the great assistance given by Miss O'Kane who has been indefatigable in her endeavours to maintain a high standard of efficiency in every department of the City Hospital.

Examinations carried out at the Bacteriological Laboratory.

Year, 1919.

Examined.	Positive.	Negative.	Total
Diphtheria	153	386	539
Sputum for Tuberculosis	47	149	196
Widal Test for Typhoid Fever	1	7	8
Ringworms	4	I	5
Other examinations of a varied character	13	3	16
Totals	218	546	764

School Hygiene.

For particulars of School Closure, etc., see School Report,

Water Supply and Sewerage.

There is nothing fresh to report since 1918. Full details given in Surveyor's Report.

Premises which can be controlled by Bye-Laws or Regulations.

Mr. STREET reports:-

COMMON LODGING HOUSES.

Five houses are registered as Common Lodging Houses, with accommodation for 155 lodgers:—

Arthur Taylor, 31, Waterside South, with	accommodation for	53
Joseph Smith, 27, Waterside North,	,,	16
S. Armstrong, 8, Waterside South	17	25
Edwin Holland, 33, Waterside North	"	54
Edwin Holland, 14, Waterside North	31	7
	Total	155

These places have been visited regularly,

Food.

Unsound Meat and Food destroyed during 1919:-

Beef	62 carca	ses wit	h offals			sts. 2,579	lbs.	tuberculous
						432		non-tuberculous
,,	10 ,	,	11			434		
,,	parts of	25 car	cases		**	260	4	tuberculous
,,	,,	14	,,			52	2	non-tuberculous
Mutton	94 carca	ses wit	h offals			2,820	I 2	unsound
33	parts of	6 carca	ases			4	13	unsound
Pork	8 carcas	es with	offals			62	10	tuberculous
,,	5 ,,	,	,			37	6	non-tuberculous
,,	parts of	3 carc	ases			9	2	tuberculous
,,	,,	2 ,	,			2	0	non-tuberculous
Veal	11 carca	ases wit	h offals			90	13	unsound
,,	parts of	3 carca	ses	744		I	0	22
Offals, N	Aiscellan	eous				540	7	**
Frozen I	Meat					0	11	**
Hams						309	0	**
Bacon						195	$4\frac{3}{4}$	**
Fish			74.1	14.0		296	5	19
Rabbits		1.4.6				103	9	,,

Unsound Meat and Food destroyed-continued.

				sts.	. lbs.	
Tinned Fish	 	***		1	5	Unsound
Tinned Meat	 			17	I	,,
Tinned Fruit	 			1	101	,,
Tinned Milk	 			35	11	,,
Dates	 			3,493	83	"
Figs	 			14	4	"
Flour	 			16	0	,,
Jam	 444			3	4	,
Butter	 			8	${\tt I}{\tt 2}\frac{1}{2}$,,
Cheese	 			11	7	,,
		Total		11,401	102	
Milk	 			12 g	allon	3.
		sts. lbs.				
		2,911 4	tub	erculous	S	
		523 8	nor	-tuberci	ilous	
		$7,966$ 12 $\frac{1}{2}$	uns	ound		

ANIMALS SLAUGHTERED AT THE PUBLIC ABATTOIR from January to December, 1919.

11,401 101

Total

Beast		 	 	2,450
Sheep		 	 	9,783
Pigs		 	 	2,785
Calves		 	 	345
	Total	 	 	15,363

PRIVATE SLAUGHTERHOUSES.

I	Herrick, J. W	Craven Street	1	icensed
2	Nissler, J. A. & Sons	High Street		,,
3	Leachman, George G	St. Paul's Lane		"
4	Industrial Co-operative Society	Brayford Wharf		,,
5	Sowerby, George	7, Sincil Street		registered
6	Curtis, A. W. & G. Barrand	rear of 171 High St.		,,
7	Maddison, J. B	St. Paul's Lane		,,
8	Hill, Mrs. R. & Taylor Bros,	Alfred Street		,,
9	Horton, E	Peel Street		**
10	Dalton, S. S	Boundary Street		,,
ΙI	Applewhite, Charles Wm	Occupation Lane		,,
12	Varty, J	Grantham Street		,,
13	Pateman, F. J	43, Newport		,,

Meat Inspection.

In August, 1918, our Public Abattoir was taken over by the Government as a centre under the Dead Weight Basis. This entailed a great increase in the work and responsibility of inspecting the meat, as all grades from the surrounding districts had to be sent to this depôt.

The trouble was accentuated by an absence of proper inspection facilities in our present building.

The figures given below, as to the quantities of meat and other foods destroyed for the past years, show the enormous increase for 1919.

1913	1,765 stone	destroyed	1916	1,301 stones	destroyed.
1914	1,556	,,	1917	2,054	,,
1915	1,707	"	1918	4,056	,,
			1919	11,401	: 9

List of Samples submitted for Analysis

UNDER THE SALE OF FOOD AND DRUGS ACT,
DURING THE YEAR, 1919.

Milk	7.4	(63 Official and 11 Informal Samples)
Ground Ginger	7	(Informal Samples)
White Pepper	5	do.
Cocoa	4	do.
Mustard	3	do.
Coffee	2	do.
Ground Rice	9	do.
Baking Powder	5	do.
Camphorated Oil	3	(1 Official and 2 Informal Samples)
Olive Oil	2	(Informal Samples)
Total	114	

Milk Samples (Official).

There were 63 Official Samples of New Milk taken during the year 1919, eight of which were adulterated. Particulars of the eight samples are given below.

PROSECUTIONS.

The following samples, Nos. 52 and 53, were taken from the same Milkseller.

No. in Record.	Date 1919.	Adulter	ation.	Article.	Fine.	Cost.
52	Sept 6	Milk Fat Non Fatty Solids Water	3·1 per ce 8·24 ,, 88 66 ,, 100·00 ,,	nt. New Milk.	£10	-
53	Sept 6	Milk Fat Non Fatty Solids Water	3.0 per ce 8.2 ,, 88.8 ,,	ent.	No judgem 2nd case.	ent given in

MILK SAMPLES (Official)-(continued).

Number of Official Adulterated Samples in which no proceedings were taken.

No. in Record.	Date.	Resu	lts.	Remarks.
3	1919 May 12	Milk Fat Non Fatty Solids Water	3.36 per cent. 7.74 ,, 88.90 ,, 100.00 ,,	Cautioned on Committee's recommendation.
6	June 13	Milk Fat Non Fatty Solids Water	2.62 per cent. 8.84 ,. 88.54 ,, 100.00 ,,	Bought Milk outside the Jity. Satisfactory ex- planation given to Committee. Advised to obtain a guarantee. Cautioned.
61	Sept. 24	Milk Fat Non Fatty Solids Water	3.52 per cent. 7.9 ,, 88.58 ,, 100.00 ,,	Bought Milk from farmer outside the City. Sat- isfactory explanation given to Committee. Advised to obtain a guarantee. Cows appeal- ed to. Good Milk given. Cautioned.
65	Sept. 24	Milk Fat Non Fatty Solids Water	2.8 per cent. 8.55 ,, 88.65 ,, 100.00 ,,	Bought Milk from cow- keeper outside the City Satisfactory statement given. Advised to ob- tain a guarantee. Cows appealed to. Milk be- low the standard given Cautioned.
90	Oct. 9	Milk Fat Non Fatty Solids Water	2·33 per cent. 8·51 ,, 89·16 ,,	Milk bought from farmer outside the City. Satis- factory explanation given to Committee. Advised to obtain a guarantee. Cautioned.
102	Nov. 22	Milk Fat, Non Fatty Solids Water	2:40 per cent. 9:03 ,, 88:57 ,, 100:00 ,,	Milk bought outside the City. Satisfactory explanation given. Advised to obtain a guarantee Cautioned.

MILK SAMPLES (Informal).

There were 11 Informal Samples of new milk submitted for Analysis during the year 1919, 3 of which proved to be adulterated. Particulars of these 3 samples are given in the following table.

No. in Record.	Date.		Resu	ts.	Remarks.
30	30 May 12	Milk Fat Non Fatty Solids Water	2·3 per cent, 8·7 ,, 89·0 ,, 100·0 ,,	Official Sample taken Found to be adulterate Satisfactory explana tion given.	
32	May	12	Milk Fat Non Fatty Solids Water	2.91 per cent. 8.71 ,, 88.38 ,, 100.00 ,,	Satisfactory explanation given. Milk from out- side the City.
84	Oct	9	Milk Fat Non Fatty Solids Water	2.5 per cent, 8.8 ,, 88.7 ,, 100.0 ,,	Samples taken from 2 cows outside the City (Cows not well at the time).

No. in Record.			Article.	Result.	Remarks.
115	Dec.	11	Camphorated Oil.	Camphor. 20° Olive Oil. 43. Mineral Oil. 37.	(Informal Sample). Official Sample taken.
119	Dec.	31	Camphorated Oil.	Camphor. 21 0 Olive Oil. 59:5 Mineral Oil. 19.5 100:0	This Sample was taken from the same Chemist as Informal Sample No 115, Cautioned.
74	Oct.	8	Baking Powder.	Available Carbonic Acid 1%	Shopkeeper not selling. Baking Powder in future (Informal Sample).

Rats and Mice Order, 1918-1919.

The responsibility of carrying out the duties under this Order have been placed upon the Health Department.

Mr. Street has been appointed as the Executive Officer and the methods he has adopted have proved very efficient,

He reports that premises have been treated with the various poisons recommended by the Board of Agriculture with very satisfactory results, trapping has also been done, and in addition to Mr. Fulton (Professional Rat Catcher) being employed the following members of the Health Staff and the others mentioned below have been working under his supervision:—

HEALTH DEPARTMENT.

Mr. Garner.

- ., Hoe.
- " Jeffery.

SURVEYOR'S DEPARTMENT.

Mr. Brown, ... Sewers, etc.

- " Kennington, ... Commons, river banks, etc.
- " Applewhite, ... Sewage Farm.
- " Mawer, ... Destructor Works.

The whole of the large firms as well as the various tradesmen in the City have given their earnest attention to the destruction of the vermin, and have men specially engaged regularly on this work.

Up to the present time it has not been necessary to serve notices either on owners or occupiers to destroy these pests, they have willingly complied with instructions.

He is pleased to report that the work has been very satisfactorily carried out.

At the present time very few complaints are being received about the pests.

Rag Flock Act.

A number of Inspections have been made of premises where Rag Flock is used in the making of articles of bedding and furniture and samples of flock taken.

Three samples were submitted to the Public Analyst for test, and he reported all Samples within the standard of impurity laid down (30 parts of chlorine in 100,000 parts of flock).

The samples examined showed :--

No. 1. No. 2, No. 3, Soluble Chlorides, equal to Chlorine 26.6 6.65 28.8

Genuine.

American Gooseberry Mildew Order and the Wart Disease of Potatoes Order.

Mr. Street is the Executive Officer under these orders, and reports that they have been carried out to the satisfaction of the officials inspecting on behalf of the Board of Agriculture and Fisheries.

Shops Act.

This is still carried out by the Health Department. Mr. STREET is the Executive Officer, and reports that very few complaints have been received during the year, and no prosecutions were instituted.

Report on Canal Boats for the Year 1919.

The following work has been carried out under the Canal Boats Act during the year:—

Number of Boats on Register	4		80
Number of Inspections made	200	191	72
Number of Boats inspected		2.00	69
Number of Boats without Papers			18
Number of men on Board			147
Number of women on Board		4	40
Number of children on Board			26

The following defects were found:-

- 5 Boats required painting.
- 2 ,, re-numbering.
- 1 Boat ,, re-lettering.
- 3 cases of Diphtheria occurred.
- 1 boat was quarantined.
- I ,, disinfected.

Housing.

The following are the particulars of the action taken during 1919, under the Housing, Town Planning, etc., Act, 1909:—

No. of Dwelling- houses inspected under and for the pur- pose of Section 17.	Number of representa- tions made to the Local Authority with a view to the making of closing orders.	Number of Closing Orders made.	Number of Dwelling- houses the defects in which were remedied without the making of closing orders.	Number of Dweiling- houses which, after the making of Closing Orders, were put in a fit state for human habitation.	The general character of the defects found to exist.
408	No represent- ations made this year, ow- ing to lack of housing ac- commodation	0	30	0	Dampness, in- sufficient light and ventilation, defective drain- age, and unsuit- able accom- modation for house refuse.

CHARACTER AND SUFFICIENCY OF HOUSES.

There are in the City 14,099 houses, of which 12,895 are within the limit of rent applicable to the District under Sec. 14 of the Housing and Town Planning Act, viz., £26 per annum.

One house and fourteen huts were brought into assessment between 1st April, 1919, and 31st March, 1920.

Plans for fifteen houses and sixteen huts were passed during the same period.

About fifty houses have been completed at the time of writing by the Ministry of Munitions, and one occupied on the Wragby Road site. Fifty houses are also in course of erection on the same site under the management of the Lincoln Corporation,

Returns have been made to the Ministry of Health on the housing requirements of Lincoln both at present and during the next few years, and a definite housing campaign has been undertaken.

A certain area has quite recently been represented to the Health Committee as suitable for an improvement scheme under Part I of the Housing Acts, This included about 150 houses.

A Housing Census is now taking place to obtain information as to the number of double families, overcrowding and size, and accommodation of existing houses, and should be of great value in determining our present needs.

This Census does not, however, take the place of a proper sanitary survey of defective houses, which will entail additions to the Staff of the Health Department, especially in view of the impending extension of the Borough.

At the present time houses which are unfit cannot be closed owing to lack of accommodation. FACTORY AND WORKSHOPS' ACTS.—The statistical tables given below show the details of inspections under the Act during the year.

INSPECTIONS.

	NUMBER OF					
Premises	Inspections	Written Notices	Prosecutions			
Factories	254	3				
Total	254	3				

DEFECTS FOUND.

	Nu	Number of Defects				
Particulars	Found	Remedied	Referred to H.M. Inspector	Prose- cutions		
Want of Cleanliness	29	29	***			
Want of Ventilation	1	1				
Overcrowding	1	1				
Want of Drainage of Floors	444		144			
Other Nuisances	4	4				
Sanitary Accommodation—						
Insufficient	1	1				
Unsuitable or Defective	8	8	***			
Not separate for sexes	1	1	***			
Bakehouses Breach of Special Sanitary require-	111	***	***	344		
ments for Bakehouses		***	***			
Total	45	45	***			

OUTWORK IN UNWHOLESOME	PREMISES. SECTION 108. Instances. Notices served.		700 100	0 0	
	Prosecutions.		Falling to send	List.	0 0
	Prosec	Pailing to	keep or permit	of Lists.	0 0
107.		served on	Occupiers as to keeping or sending	Lists.	15
SECTION 107.		ie year.	Outworkers.	Workmen.	+ 0
s LIST.	TS.	Sending once in the year.	Outwo	Contractors. Workmen.	0 0
OUTWORKERS' LIST.	on Employe	Sem	List		n 0
DOUT	List received from Employers.	he year.	orkers.	Workmen.	16 0
		Sending twice in the year.	ing twice in the year Outworkers.	Contractors, Workmen.	0 0
		Sen	Lists		0 13
	NATURE OF WORK.				Making Wearing Apparel Pea Picking

	Number (2)		00	61	67	18	0	0	0
5.—OTHER MATTERS.	Class.	Matters notified to H.M. Inspector of Factories:-	Failure to affix Abstract of the Factory and Workshop Act (8, 133)	(Notified by H.M. Inspe	Public Health Acts, but Public Health Acts, but Workshop Act (8, 5) H.M. Inspector	Other notices of new workplaces received from H.M.	Underground Bakehouses (s. 101) :	Certificates granted during the year	In use at the end of the year
	Number (2)	65		104					466
1REGISTERED WORKSHOPS.	Workshops on the Begister (s. 131) at the end of the year, (1)	No. of Bakehouses on register		" " other workplaces					Total number of workshops on Register

SUMMARY OF THE WORK OF THE SANITARY STAFF.

The Staff at the Health Department consists of the Medical Officer of Health, the Acting Chief Sanitary Inspector, two Assistant Inspectors, Disinfector, and two Clerks.

I wish to refer to the loyal support of my staff during the past year, and would specially mention the valuable work of Mr. C. Street as Acting Chief Inspector.

Informal notices served		 	 498
Circular letters re notices		 	 100
Privy Vaults abolished		 	 3
New water-closets provided		 	 34
W.C. pans provided		 	 34
,, ,, connected to traps	***	 	 24
,, ,, cleansed		 	 42
,, cisterns repaired		 	 107
,, ,, overflow pipes repaire	ed	 	 32
,, flush pipes repaired		 	 25
,, supply pipes repaired		 	 86
,, seats repaired		 	 3
Choked W.C.'s cleansed		 	 125
Drains tested with smoke, etc		 	 217
,, found defective and repaire	ed	 	 50
,, relaid		 	 33
,, found choked and cleansed		 	 211
New inspection chambers built		 	22
Manhole covers provided		 	 13
Drain ventilating pipes tested		 	 237
,, choked		 	 35
,, repaired		 	 29
,, fixed new		 	 4
,, lengthened		 	 12
Sink waste pipes trapped		 	 14
,, repaired		 	 36
,, catchpits abolished		 	 0
Eaves spouts and down spouts repa	ired	 	 36
Yards and passages asphalted	***	 	 63
Defective roofs repaired		 	 32
Foul sinks removed		 111	 14

Windows of houses made to open					0
Ashpits abolished	***	0	**		14
Covered metal ashes bins provided	127		100	***	206
Houses inspected	***		4.4.4		408
,, found to be dirty		***	***	225	16
,, cleansed			* * *		15
,, found to be overcrowded	***			5.55	29
Pig-styes inspected					40
,, found in insanitary condition					7
Visits to Cowsheds, Dairies and Milk					129
,, Common Lodging Houses			6.11		25
,, Abattoir and private slaugh					600
,, Cattle Market, Butter Mark	et and	New M	Iarket	12	300
,, Ice Cream Shops	* * *			114	20
,, Fried Fish Shops					100
,, Canal Boats	***	111		***	72
Complaints investigated					751
Re-visits re-complaints			***		167
Works inspected			+ + +		169
Living Vans inspected at Fair-time					68
Cases of notifiable infectious diseases	investi	gated			218
,, ,, ,, ,,	re-visit	ed			114
,, Phthisis (not including above)) invest	igated			23
,, ,, ,,	re-visi	ted			0
,, Tuberculosis (other than ph	thisis)	invest	igated		. 3
,, ,, ,,		re-visi			0
,, Non-notifiable diseases visite	ed				8
,, Infectious diseases removed	to Ho	spital			124
Premises disinfected		-			1039
Bundles of wearing apparel passed the					28
Beddings and mattresses					296
Bundles of bed-clothing, etc					284
Verminous beddings and mattresses d					34
Rooms stoved to destroy vermin					40
Notices to education re infectious case					238
Children excluded from School					294
Miscellaneous Visits					937
Housing Enquiry Visits					150
Visits to Factories, Workshops and	Bakeho	uses	***		254
VISITES IN PRODUCTION, IT OF THE PROPERTY OF THE PERSON OF					

RAINFALL

1010			Total Depth in inches	Greatest Daily Fall		No. of Polov	
1919				Depth	Date	No. of Rainy Days	
February March April May June July August			2·74 2·27 2·59 1·73 0·76 1·21 2·67 2·51 1·76 1·93 1·85 2·96	61 1.04 ·53 ·50 ·39 ·31 ·65 ·69 ·62 ·64 ·28 ·43	3rd 16th 19th 27th 24th 24th 3rd 28th 22th 23rd 3rd 26th	23 13 16 15 8 12 12 11 12 13 23 23	
Total,			24·98 21·12			181	

RAINFALL, 1895 to 1919.

Year	Inches	Year	Inches	Year	Inches	Year	Inch
1895	24 · 27	1902	21.43	1909	27.24	1916	26.6
1896	26.50	1903	29.53	1910	24.83	1917	20.8
1897	26.29	1904	19.72	1911	18.88	1918	21.1
1898	20.59	1905	18 - 22	1912	27.76	1919	24.98
1899	26.57	1906	23.53	1913	19.80		
1900	27.01	1907	24.47	1914	20.42		
1901	23.01	1908	20.75	1915	27.52		