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CITY OF CARLISLE.

REPORT

Sanitary Condition of the City of Carlisle FOR THE YEAR 1927

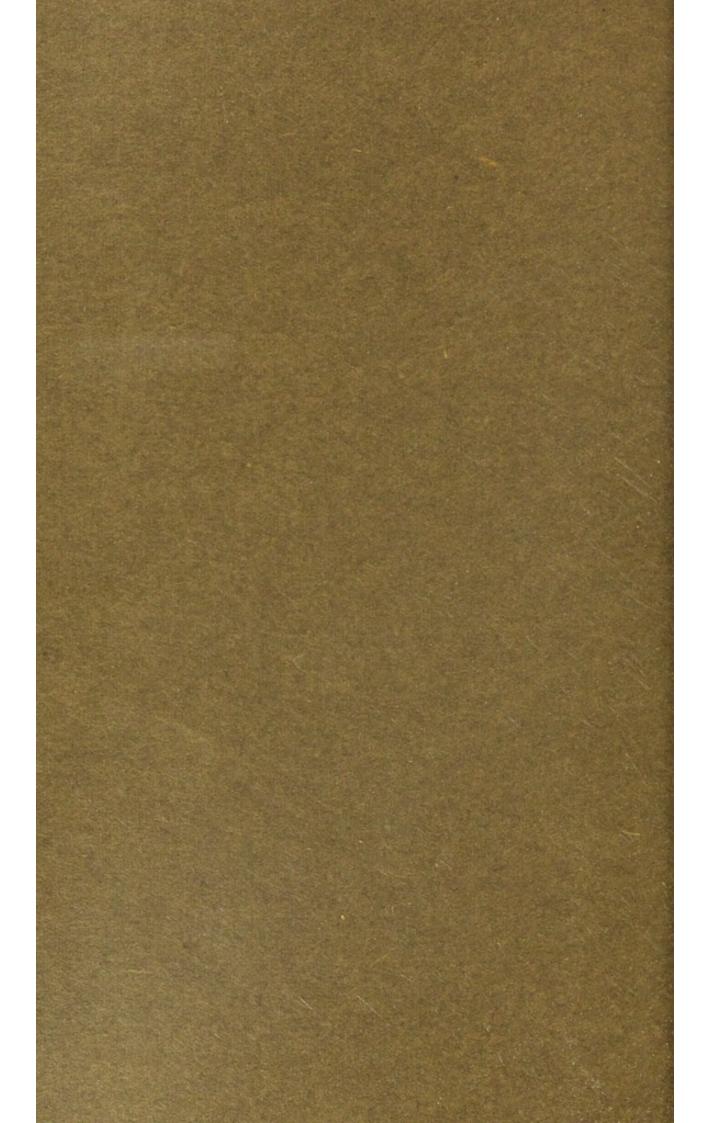
JOSEPH BEARD,

BY

F.R.S. (Edin.), F.R.C.S. (Edin.), L.R.C.P. (Lond.), D.P.H. (Cantab.), etc., (Of Gray's Inn, Barrister-at-Law).

Medical Officer of Health, School Medical Officer. Chief Tuberculosis Officer, &c.

CARLISLE : CEAS, THURNAM & SONS, PRINTERS, 11 ENGLISH STREET.





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FOR THE YEAR 1927

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PUBLIC HEALTH STAFF.

This list includes all officers who are employed in work connected with the public health, whether under the Health, Maternity and Child Welfare, or the Education Committees :—

- Medical Officer of Health, School Medical Officer, Chief Tuberculosis Officer, &c., &c.
- Assistant Medical Officer of Health, Tuberculosis Officer, and Assistant School Medical Officer
- Assistant School Medical Officer and Assistant Medical Officer (M. & C. W.)
- Assistant Medical Officer (V.D.) (part-time)

Dental Surgeon (part-time)

Veterinary Inspector (part-time)

Chief Sanitary Inspector, and Inspector under Sale of Food and Drugs Acts and Shops Acts

Assistant Sanitary Inspectors

Health Visitors

Nurse in charge of School Clinic and Tuberculosis Dispensary

School Nurses

Matron of Maternity Hospital Clerks

Disinfector

Superintendent of Public Slaughterhouses

Public Analyst (part-time)

Bacteriologists (part-time)

JOSEPH BEARD, F.R.C.S., L.R.C.P., D.P.H., &c., &c.

ALLAN SEMPLE, M.B., Ch. B., D.P.H.

Miss E. E. BOURNE, M.B., Ch.M., D.P.H.

ALEX. C. B. MC.MURTRIE, M.D., F.R.C.S., D.P.H.

WILLIAM TAYLOR, L.D.S.

R. CRAIG ROBINSON, M.R.C.V.S.

* C. W. HILL

+ W. HANSON * E. S. BROADHEAD

Misses H. M. HILL, J. G. SMITH, C. STORDY Miss M. E GLOYNE

Misses J. H. BRADEN, G. HUNTER, M. L. ROGERS.

Miss M. C. WALKER

G. E. BARROW, R. F. THOBURN, L. OATES, Misses L. HIND and M. PURDAM

H. PORTER

*‡R. T. BLAYLOCK

CYRIL J. H. STØCK, B.Sc., F.I.C. DARLINGTON

THE PUBLIC HEALTH LABORATORY, MANCHESTER (Prof. H. B. MAITLAND) AND THE CLINICAL RESEARCH ASSO-CIATION, LONDON

* Sanitary Inspectors' Certificate, R.S.I. + Sanitary Inspectors Certificate, S.I.A. ‡ Meat Inspectors' Certificate, R.S.I.



To the Chairman and Members of the Health Committee. Ladies and Gentlemen,

I have the honour to submit the Annual Report on the Health of the City for the year 1927.

The Report has been prepared as far as practicable in accordance with the requirements of Circular 834 of the Ministry of Health, of the 15th December, 1927, consideration having been given to the recording of such particulars as may be required for future reference.

The Report calls for little comment, and the sanitary condition of the City generally may be said to be good.

I am,

Ladies and Gentlemen,

Your obedient Servant,

JOSEPH BEARD,

Medical Officer of Health.

Public Health Department, 19 Fisher Street, Carlisle,

May, 1928.

STATISTICS AND SOCIAL CONDITIONS.

General Statistics.

Area (acres)	4,488
Population (Census, 1921)	53,200
Population (1927), Estimate of Registrar-General	56,620
Number of Inhabited Houses (Census, 1921)	11,316
Number of Families (Census, 1921)	11,742
Rateable Value	£349,665
Sum represented by a Penny Rate	£1,253

Extracts from Vital Statistics of the Year.

Births-		Total.	М.	F.	
Legitimat	е	974	489	485	
Illegitima	ite	63	26	37	
					Birth-rate 18.3
Deaths		699	336	363	
					Death-rate 12.3

Number of women dying in, or in consequence of. childbirth-

,	childoirth—		
	From Sepsis	 	 3
	From other causes	 	 None

Deaths of Infants under one year of age per 1,000 births—

Legitimate	 	69.8
Illegitimate	 	47.6
		Total 68.4

Deaths from	Measles (all ages)	 1
,,	Whooping Cough (all ages)	 None
	Diarrhœa (under 2 years of age)	 9

Population.

An estimate of the population at mid-year, 1927, supplied to me by the Registrar-General, is 56,620, which figure has been used in making the various calculations in this report.

Births.

The number of births registered during the year was 1,037, a decrease of 122 on the figure for the previous year, and the birth-rate is 18.3 per 1,000 of the population, or a decrease of 2.2 on the figure for 1926.

The birth-rate for the whole of England and Wales during 1927 was 16.7 per 1,000. The rate for the 107 great towns, to which classification Carlisle belongs, was 17.1 per 1,000, and for the 155 smaller towns of England and Wales 16.4 per 1,000.

	Numbe	Per 1,000 of		
Year.	Males.	Females.	Total.	the population
1923	589	592	1181	21.8
1924	548	568	1116	20.3
1925	530	515	1045	18.8
1926	604	555	1159	20.5
1927	515	522	1037	18.3

Quarter Ended	Stanwix and Etterby	Rickergate	Aglionty	Greystone	St. Nicholas	Currock	Denton Holme	S. Cuthbert's	Caldewgate	Newtown & Belle Vue	Totals for City
March 31	13	31	20	24	23	39	19	31	37	28	265
June 30	17	24	23	21	28	44	46	34	40	25	302
September 30	6	28	18	14	27	46	22	22	30	20	233
December 31	8	28	13	19	20	36	33	24	32	24	237
Totals	44	111	74	78	98	165	120	111	139	97	1037

Table showing details of the Births in the several Wards, 1927.

Illegitimate Births.

The number of illegitimate births registered was 63, or 60.7 per 1,000 of the total births. This shows a decrease of 6 illegitimate births upon the figure for 1926.

In 9 instances, or 14.2 per cent. of the total illegitimate births, the mother was not a resident of the City.

The distribution of the illegitimate births among the several wards was as follows :---

	Stanwix and Etterby	Rickergate	Aglionby	Greystone	St. Nicholas	Currock	I)enton Holme	S. Cuthbert's	Caldewgate	Belle Vue	Totals for City
Males	2	5		2	4	6	2				26
Females	1	F	5	2	6	5	3	2	3	5	37
Totals	3	10	ð	4	10	11	5	2	6	7	63

Deaths.

The total number of deaths registered was 802, as compared with 821 in 1926. 19 deaths occurred of persons belonging to the City in Institutions and other places away from Carlisle, while the deaths of 122 persons not belonging to the City occurred in public institutions and other places within the City. Excluding the latter figure, and adding the deaths of Carlisle residents which occurred in other districts, a nett figure of 699 remains, which is equal to a nett death-rate of 12.3 per 1,000 of the estimated population at all ages, against 12.9 per 1,000 in 1926.

The corrected death-rate for the City, which is obtained by multiplying the above nett death-rate of 12.3 per 1,000 by the factor supplied by the Registrar-General, viz., .947, is 11.6 per 1,000 of the estimated population living at all ages.

The death-rate for the whole of England and Wales during 1927 was 12.3 per 1,000. The rate for the 107 great towns, to which classification Carlisle belongs, was 12.2 per 1,000, and for the 155 smaller towns of England and Wales, 11.3 per 1,000.

Table showing details of Deaths of Residents in the various Wards, 1927.

QUARTER Ended.	STANWIX AND ETTERBY.	RIOKERGATE.	AGLIONBY.	GRETSTONE.	ST. NICHOLAS.	CURROCK.	DENTON HOLMK.	ST. CUTHBERT'S.	CALDEWGATE.	NEWTOWN AND BELLE VUE.	TOTALS FOR CITT.	
March 31	12	23	23	24	14	26	22	24	21	10	199	
June 30	6	17	23	21	18	18	14	18	19	16	170	
September 30	12	14	13	13	14	17	15	13	14	13	138	
December 31	17	20	20	25	16	17	20	20	27	10	192	-
Totals	47	74	79	83	62	78	71	75	81	49	699	

Table showing the number of Deaths at all Ages and at several age periods, 1927.

	All Ages.	Under 1 Year.				25 and under 65	
No. of Deaths at all ages and at several age periods	699	71	34	14	36	250	294

The following Table shows the diseases causing the largest number of Deaths during 1927, and a comparison with those of 1926, &c.:—

DISEASE.	1926	1927.	Increase or Decrease	Average No. of Deaths for past 10 yrs.
Pulmonary Tuberculosis & Phthisis	48	51	+ 3	46
Other forms of Tuberculosis	15	11	- 4	15
Pneumonia	44	60	+ 16	51
Other Diseases of Respiratory System	48	66	+ 18	60
Measles	18	1	-17	10
Influenza	7	14	+ 7	32
Whooping Cough	11			9
Diphtheria, Membranous Croup	10	2	- 8	5
Disease of Heart and Blood Vessels	157	158	+ 1	159
Rheumatic Fever, Chronic Rheu- matism, Rheumatoid Arthritis	3	2	1	7
Cancer and Malignant Disease	67	79	+12	68
Diseases of Digestive System other than Diarrhœa and Euteritis	26	21	5	25
Diseases of Genito-Urinary System	32	25	- 7	29
Diseases of Nervous System	73	59	14	56
Prematurity and Injury at Birth, &c.	40	27	-13	42
Accidents due to Negligence	24	26	+ 2	19
Diarrhœa and Enteritis	21	13	- 8	20

+ Shows an increase in the number of deaths.

- Shows a decrease in the number of deaths

CAUSE OF DEATH.	All Ages.	"Resi	DENTS OR V	2 and	THE SU THER UT THE 5 and under 15.	DISTI	RING WRICT.	45 and		IN THE
1	2	3	4	5	6	7	8	9	10	11
All Courses (Certified	073	69	20	14	14	36	76		281	290
All Causes { Certified	00	2					2	161	13	1
Entaria Faran										
Smallpox	1 1 1 1 1 1 1 1 1 1					111		**		
Measles		1								< · · · · · · · · · · · · · · · · · · ·
Scarlet Fever								4		
Whooping Cough									1	
Diphtheria and Croup	. 2			2						2
Influenza	14		1			1	2	4	6	
Dysentery									144	
Erysipelas								2	L	5
Phthisis (Pulmonary Tuberculosis)			1	***		17	19	11	3	6
Tuberculous Meningitis Other Tuberculous Diseases		1	1		1					3
Cancer Malignant Discours				1	2	1	2	1	1	9
Rheumstic Favor		144		***	1		4	28	46	24
Maningitia	13	1			***		***	1	1	
Organic Heart Digessa	0.			1		1				6
Bronchitis		10		1	1		7	22	63	17 12
Pneumonia (all forms)	60	15	11	4		24	4	12	28 9	12
Other Diseases of Respiratory Organs	. 9			1		100	1	13	8	
Diarrhea and Enteritis		8	1				2	4	1	6
Appendicitis and Typhlitis	0			1		1				11
Cirrhosis of Liver										
Alcoholism										
Nephritis and Bright's Disease Puerperal Fever							2		9	10
Other Accidents and Diseases of Preg-	. 3						3			3
nance and Dantanitian										
Congenital Debility & Malformation,										
including Premature Birth	. 27	27						1.11.11	-	
Violent Deaths, excluding Suicide	0.0	1								10
Suicide	0		1	2	4	3	7	4	4	83
Other Defined Diseases	0.0 10	7	3	***	2	6	1 23	1	110	1
Diseases ill-defined or unknown			1					58	118	124
			5				**	1	-	
Totals	. 699	71	20	14	14	36	78	172	294	291
Pub a			-	_	1	00	10		201	LOL
Sub- Entries Cerebro-spinal Meningitis	1					1				
in above Lobar Pneumonia										
figures Pneumonia not defined		2	1	1	2	3		3	2	3
a standard not defined	9	1	8	1	1 2 2 2	10000	1000 C	2	2	

The following Table sets out the Cause and the Ages at Death of 699 persons belonging to the City:---

The following Table shows the Vital Statistics for the whole City during 1927 and previous years:—

	л	В	IRTHS		TOTAL REGIST		TRANSF	ERABLE	NETT I TO	DEATHS I THE DIS	BELON	GING
	sneral's pulatio	ted r.	Ne	tt.	IN T DIST			not the		1 Year	AT Au	ALL
YFAR.	Registrar-General's Estimate of Population to Middle of each Year	Uncorrected Number.	Number Number, Rate.		Number.	Rate	of Non-residents registered 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
1918 }	60,188 53,717	1033	1037	17.2	921	17.1	120	49	131	126.8	850	15.8
1919 {	57,500 55,198	1066	1078	18.7	778	14.1	112	54	115	107.9	720	13.6
1920 }	57,697 57,397	1425	1417	24.7	785	13.7	117	37	114	80.0	705	12.3
1921	53,200	1310	1298	24.6	818	15.3	85	21	138	105.3	754	14.1
1922	53,490	1267	1267	23.6	864	16.1	101	21	103	81.2	784	14.6
1923	54,010	1181	1171	21.8	797	14.7	91	26	98	82.9	732	13.5
1924	54,910	1116	1123	20.3	849	15.4	103	17	106	94.9	763	13.8
1925 }	* 55,360 + 55,160	1045	1030	18.8	848	15.3	122	22	82	78.4	748	13.5
1926 {	* 56,320 † 56,140	1159	1163	20.5	821	14.6	110	18	95	81.9	729	12.9
1927	56,620	1037	983	18.3	802	14.1	122	19	71	68.4	699	12.3

* For Birth-rate.

+ For Death-rate.

The following Public and other Institutions are within the City:-

The Union Workhouse and its Infirmary. The Cumberland Infirmary. Carlisle Non-Provident Dispensary. The Crozier Lodge Isolation Hospital. Strathclyde House (Home for Incurables). St. Joseph's Home (aged and infirm persons). Corporation Dispensary and School Clinic. Corporation Maternity Hospital and Clinics.

Birth-rate, Death-rate, and Infantile Mortality in Carlisle since 1891.

Veen	No. of	Birth-	No. of	Gross Death-	Infantile Mor-	Avera	age Five	Years.
Year.	Births.	rate.	Deaths.	rate.	tality.	Birth- rate.	Death- rate.	Infantile Mortality.
1891	1207	30.8	789	20.1	137			
1892	1213	30.5	805	20 2	123			
1893	1389	34.5	868	21.6	178 -	31.8	20.1	142.6
1894	1315	32.0	780	19.2	133			1120
1895	1311	31.4	794	19.4	142			100
1896	1246	29.6	753	18.2	137			
1897	1324	30.8	811	19.4	134			
1898	1311	30.0	935	22.2	183	29 9	19.5	146.6
1899	1300	29.4	818	19.2	145		100	1400
1900	1354	30.1	807	18.8	134	and the second se		1.60%
1901	1246	27.3	810	17.8	129			
1902	1245	27.0	856	18.5	117			
1903	1322	28.4	813	17.4	118	26.7	17.9	131.0
1904	1278	26.7	933	19.7	152		110	101 0
1905	1168	24.3	783	16.3	139			
1906	1227	25.3	811	16.7	132			
1907	1178	23.8	848	17.1	143			
1908	1223	24.4	713	14.2	129	23.6	15.1	127.5
1909	1149	22.6	735	14.5	123.6		101	1210
1910	1145	22.2	683	13.2	110.0			
1911	1109	23.8	776	16.7	145.0			
1912	1142	24.6	813	17.5	102.4		10000	
1913	1164	22.1	821	156	127.1	23.2	17.1	128.2
1914	1209	23.0	848	16.1	122.4	202		120 2
1915	1192	22.6	1027	19.5	144.3			
1916	1103	20.3	850	17.0	101.5	1.5		
1917	1117	18.8	826	15.5	106.5			
1918	1033	17.1	921	17.1	126.8	19.9	15.5	104.5
1919	1066	18.5	778	. 14.1	107.9	Contract of the		1010
1920	1425	24.7	785	13.7	80			
1921	1310	24.6	818	15.3	105.3)			
1922	1267	23.6	864	16.1	81.2			
1923	1181	21.8	797	14.7	82.9	21.8	15.3	88.5
1924	1116	20.3	849	15.4	95.0		100	000
1925 1926	1045	18.8	848	15.1	78.4			
1926	1159	20.5	821	14.6	81.9			
1821	1037	18.3	802	14.1	68.4	19.9	14.7	81.3

The following figures relate to the deaths of persons not normally resident in the district which occurred within the City :--Cumberland Infirmary 76 ... Private Nursing Homes ... 24 Private Houses . . . 6 Fusehill Hospital 12 Isolation Hospital 3 General Post Office 1

...

122

.

Inquests.

During the year the City Coroner held 49 inquests. Of this number, 32 related to deaths of persons who resided within the City, and 17 to persons who resided in other districts, but who died within the City. 12 related to children under five years of age, 5 of whom were under one year.

Mortuary.

6 bodies were removed to the Public Mortuary, a post-mortem examination being made in each instance.

Uncertified Deaths.

28 deaths were registered of persons belonging to the City in which no certificate was given by a medical man, and in which no inquest was held.

During 1926, 17 such deaths were registered.

Cancer.

The number of deaths registered as due to cancer was 79, as against 67 in 1926, the rate of mortality from this disease being 1.3 per 1,000 of the population.

This figure includes all deaths from causes coming within the general term cancer.

Table of Deaths from Cancer, 1918-1927.

Age.	Numbers.											
	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927		
1 to 5 years 5 to 15 years 15 to 25 years 25 to 35 years 35 to 45 years 45 to 55 years 55 to 65 years 65 to 75 years 75 & upwards	 $ \begin{array}{c} 1 \\ 1 \\ 1 \\ 5 \\ 13 \\ 21 \\ 17 \\ 7 \end{array} $	 2 9 19 15 4	$ \begin{array}{c} $	 1 2 2 5 20 19 4	$ \begin{array}{c} $	 2 13 21 26 16	$ \begin{array}{c} $	 4 23 26 21 10	 2 3 6 26 21 9	1 2 2 10 18 31 15		
Totals	 66	49	62	53	68	78	72	84	67	79		

GENERAL PROVISION OF HEALTH SERVICES.

Hospitals provided or subsidised by the Local Authority.

A (1) Fever. General infectious diseases are sent to Crozier Lodge Isolation Hospital, Carlisle, 50 beds.

(2) Smallpox. The Corporation has provided a hospital for the isolation of smallpox a few miles out of the City, containing 12 beds.

B (1) Tuberculosis. The Corporation has a call upon 20 beds in the Blencathra Sanatorium, Threlkeld, Cumberland, in accordance with the agreement made between the Local Government Board, the Sanatorium Committee, and the Corporation.

(2) Maternity. A hospital has been provided by the Corporation at 3 George Street, Carlisle, containing 13 beds and a like number of infants' cots.

(3) *Children*. There is a children's ward at the Cumberland Infirmary which provides for local requirements.

(4) Others. None.

Institutional Treatment for Unmarried Mothers. Illegitimate Infants, and Homeless Children.

In addition to the Fusehill Institution, accommodation is provided for the above classes by the North Cumberland and Carlisle City Association for Preventive and Rescue Work at Coledale Hall.

4

Ambulance Facilities.

(a) For infectious cases. The Corporation provide and own a motor ambulance for the removal to hospital of cases of infectious disease, which is operated by an officer of the Public Health Department. By arrangement, the ambulance and the officer who has charge of this work are also available for the removal to hospital of cases of infectious disease from any part of the area of the Carlisle Rural District Council.

(b) For non-infectious and accident cases. A public ambulance, provided by the Corporation, for accidents and illness other than infectious disease, is kept at the Fire Station, Spring Gardens Lane, for which the following charges are made:—

For residents in the City ... 7/6 for each removal For not exceeding 2 miles outside

the City 10/- ,,

For beyond 2 miles and not exceeding 3 miles ... 12/6 ,,

For each additional mile thereafter (limited to 20 miles outside the City) 3/- per mile

Between 9 p.m. and 7 a.m. 50 per cent. additional is charged.

In cases of accidents in the streets no charge is made for the removal of persons to the Infirmary or their homes.

ENTRES IN THE CITY.	rovided by.	5, and Carlisle Corporation	s, and Do.	The Carlisle Mothers' and Babies' Welcome Society	Do.	Do.	Do.	Carlisle Corporation	Do.	k Room Do.	Do.	boratory Do	Jointly by Carlisle Corporation and the Cumberland County Council
IT WELFARE CENTRES	Accommodation.	Waiting, Consulting, and Weighing Rooms	Waiting, Consulting, and Dressing Rooms	One Large Room	Two Rooms	One Room	Two Rooms	Three Rooms	Two Rooms	Two Rooms and Dark Room	Two Rooms	Four Rooms and Laboratory	Three Rooms
INICS AND INFANT	Address.	Maternity Hospital, 3 George Street	Do.	West Walls	St. John's Hall,	South Street Caldewgate	Howie Boyd Hall, Currock	2 George Street	Do.	Do.	Do.	1 George Street	Cumberland Infirmary
LIST OF EXISTING CLINICS AND	Nature of Centre.	Maternity and Child Welfare (Post- natal), once weekly	Maternity and Child Welfare (Ante- natal), once weekly	Infant Welfare Centre, weekly	Do. do.	Do. do.	Do. do.	school Clinic, Minor Ailments, daily	Do. Dental, twice weekly	Do. Special Ophthalmic Exam- inations, weekly	Do. X-Ray, weekly	Unberculosis Clinics, three times weekly	Jenereal Clinic, five sessions weekly and intermediate treatment

Professional Nursing in the Home.

(a) General. None.

(b) Infectious. An annual retaining fee of £20 is paid by the Council to the Carlisle District Nursing Association, on condition that nursing facilities will be made available by them for such cases of puerperal fever, ophthalmia neonatorum, measles, whooping cough, and epidemic diarrhœa, as the Council may require them to attend. In addition, 1s. per visit is paid on account of such cases.

Midwives.

The Corporation do not employ midwives except at the Maternity Hospital, and do not pay any subsidy in respect of any midwife practising in the district.

There were 24 midwives in practice in the area at the end of the year.

Registration of Maternity Homes.

1.	Number of	Applications for registration	7
2.	,, ,,	Homes registered	. 6
3.	,, ,,	Orders made refusing or cancellin	g
		registration	. 1
4.	,, ,,	Appeals against such Orders	. —
5.	,, ,,	Cases in which such Orders hav	е
		been	
		(a) confirmed on appeal	
		(b) disallowed	. —
6.	,, ,,	Applications for exemption from	n
		registration	. 2
7.	,, ,,	Cases in which exemption has been	n
		(a) granted	. 2
		(b) withdrawn	
		(c) refused	

Chemical Work.

This work is carried out by Cyril J.H. Stock, Esq., B.Sc., F.I.C., &c., of Darlington. The results of his analyses of the various foods, drugs, &c., for the year are shown on pages 22 and 81.

Bacteriological Work.

24 samples of milk were submitted to the Public Health Laboratory, Manchester, for bacteriological examination, 20 being samples of fresh cows' milk and 4 of pasteurised cows' milk. These were all routine samples purchased from milkshops and carts in the City. In two instances of the fresh cows' milk, tubercle bacilli were found. The subsequent procedure in these two cases resulted in the elimination by the City Veterinary Inspector of a milk cow from one of the City byres and by the Veterinary Inspector of the Cumberland County Council of two milk cows from a herd in the Longtown area.

71 specimens of sputum have been examined at the Tuberculosis Dispensary for the presence of the tubercle bacillus, in 22 of which the organism was found.

43 swabs from throats were submitted to the Clinical Research Association for examination for the Klebs Loeffler Bacillus, and in 19 instances the organism was found.

Four samples of City water, taken from a domestic tap, were submitted to the Public Health Laboratory, Manchester, for bacteriological examination. A tabulated summary of the reports is given on page 21.

The following Acts, Bye-laws, and Regulations are in force in the district, and were adopted on the dates mentioned : --Bye-laws with respect to New Streets and Buildings under the Public Health Act, 1875 13th Oct., 1885 Regulations under the Contagious Diseases (Animals) Act, 1886, and the Dairies, Cowsheds, and Milkshops Order of 1885 ... 16th July, 1889 The Infectious Diseases (Prevention) Act, 1890 10th March, 1891 The Public Health Acts (Amendment) Act, 1890 10th March, 1891 Bye-laws for regulating the Public Pleasure and Recreation Grounds, made in pursuance of the Public 14th Feb., 1893 Health Act, 1875 Bye-laws with respect to Common Lodging-houses, made in pursuance of Section 80 of the Public Health Act. 1875 15th Aug., 1893 Bye-laws relating to the conveyance of carcases of dead animals through the streets 8th Jan., 1895 Byc-laws for regulating the Carlisle Public Slaughter-houses under the Public Health Act, 1875 12th May, 1896 ... Bye-laws made for regulating the carrying on of offensive trades, in pursuance of Section 113 of the Public Health Act, 1875 9th March, 1897 . . . 9th July, 1901 Baths and Wash-houses Acts ... 1st Jan., 1924 Measles Regulations, 1923 . . . Public Health Acts (Amendment) Act. 1907-Section 86, Marine Store Dealers, and Dealers in old Metal ... 22nd Jan., 1914 Section 95. Miscellaneous Pro-31st March, 1925 VISIONS 24th Aug., 1926 Part VI. Recreation Grounds ... 10th June, 1926 Section 51. Offensive Trades ... 4th Aug., 1926 Section 50. Ambulance ... Public Health Act, 1925-9th March, 1926 Parts II. III. IV. and V. ... 24th Aug., 1926 Part VI.

RAINFALL.

Observations taken at the Carlisle Cemetery by Mr. J. T. Charlton.

A verage for	10 years 1917-1926.	ін.	2.82	2.44	1.83	1.88	2.28	1.73	2-90	3.89	3.50	3-20	2.30	2.91	31-69	201
1927.	Rainfall. days on which Rain fell.		23	19	20	20	11	17	15	21	22	15	16	5	204	
1	Rainfall.	0	5	4	2.58	00	0	0	3	100	0.	80	64	-	37.38	
	1926	in.	2.67	3.94	1.39	1.75	2.16	3.17	2.94	2.91	5.74	3.15	4.23	99.0	34.70	201
	1925	in.	2.19	4.82	1.27	3.27	3.48	0.40	1.97	3.18	4.08	3.73	1.06	2.72	32.17	189
	1924	in.	2.77	96.0	1.73	18.1	3.73	06.1	4.63	3.13	3.33	4.13	1.97	5.03	35.11	210
	1923	in.	1.74	4.08	0.84	2.55	1.98	0.00	2.22	7.49	3.01	5.61.	4.06	2.42	36.53	231
	1922	in.	2.25	2.87	1.31	1.89	1.79	2.98	4.54	2.53	2.92	1.20	0.84	3.43	28.55	209
	1921	.in.	10.9	0.16	3-71	0.86	1.28	0.65	2.44	5.39	2.15	2.56	1.68	3.94	29.83	205
	1920	in.	4.17	2.61	11.8	2.17	3.48	2.11	4.26	2.50	1.89	1.00	2.02	2.79	32.11	211
_	1919	in.	2.88	90.1	2.35	1.49	1.10	2.66	0.87	2.96	1.81	2.36	2.36	3.32	25.21	191
_	1918	i.	8.13	9.86	99.0	0.50	1.88	0.87	3.73	3.21	7-36	4.00	2.01	3.44	29.28	190
_	1917	in.			1.98						2.61	4.33	2.83	1.40	29-13	176
	MONTHS.		.Tanuary		:	:		June		st	ber		ber .	December	Totals	Total number of days (on which Rain fell (

20

SANITARY CIRCUMSTANCES. Water Supply.

Total annual distribution of Water from Cumwhinton covered reservoir during the years 1918 to 1927.

Year.	Number of Gallons,	No. of Gallons per head, per day.
1918	795,220,000	34.58
1919	804,040,000	34.88
1920	814,170,000	35.41
1921	771,250,000	33,54
1922	759,500,000	32.98
1923	747,320,000	32.49
1924	712,630,000	30.90
1925	737,000,000	32.06
1926	758,630,000	33.00
1927	785,990,000	34.03

Bacteriological Results of Quarterly Samples of Water taken from a Domestic Tap.

QUANTITATIVE ANALYSIS		1927.							
A. A erobic micro-organ- isms growing in 3 days in nutrient gelatine at 20° C.		Number of colonies in one gramme of water.							
to 21° C.	N	IAR.	JU	NE.	SEP	T.	DEC.		
Non-Liquefying Bacteria Liquefying Bacteria	37	,	117		185		79)		
Liquefying		38		136		265		92	
Bacteria	1		19	1.00	80		79 13		

QUALITATIVE ANALYSIS.	MARCH.	1927. JUNE.	SEPT.	DEC.
A. Bacteria assoc- iated with sewage or fæcal pollution	B. Coli communis found in 100 C.C.	B. Coli communis found in 10 C.C.	B. Coli communis found in 10 C.C.	B. Coli communis found in 100 C C.
B Bacteria asso- ciated with disease	Not found	Not found	Not found	Not found

Water Laken from a Domostro Fapi										
Results shown in parts per 100,000.		1	927							
CHEMICAL.	MARCH.	JUNE.	SEPT.	DEC.						
Chlorine as Chlorides	1.1750	0.7750	0.8750	1.3000						
Nitrogen as Nitrates	0.0411	None	.0411	trace						
Ammonia	None	None	trace	None						
Albuminoid Ammonia	.0100	trace	.0108	trace						
Oxygen absorption	.0720	.1729	.1977	.0506						
Injurious Metals (Lead and Copper)	None	None	None	None						
Total Solid Matter dried at 100° C	10	13	13	9						
Temporary Hardness	.80°	5.00°	6.60*	3.20*						
Permanent Hardness	7.20°	4.20°	4.80°	4.80°						
Colour and Appearance in two-foot tube	clear	Light green, not quite clear	green, not	Faint green,, clear						
Odour when heated to 50° C	None	None	quite clear None	None						
Microscopical Examina- tion	Satisfactory	Minute deposit con- sisting of	Minute deposit con- sisting of	Minute deposit con- sisting of						
		earthy and vegetable matter, etc.	earthy and vegetable matter, etc.	earthy and vegetable matter, etc.						

Results of Chemical Analyses of Quarterly Samples of Water taken from a Domestic Tap.

Rivers and Streams.

None of the water from rivers or streams in the area of the Authority is used for drinking purposes, and no necessity arose for any action to be taken in respect of pollution.

Drainage and Sewerage. Closet Accommodation. Scavenging. Sanitary Inspection of the Area. Smoke Abatement. Offensive Trades.

Information regarding these matters will be found on pages 75 to 79.

Schools.

The sanitary condition of the schools generally is satisfactory. Some of the school buildings are, however, old or of an old type. There are adequate facilities in every school in the area for an abundant supply of water, both for drinking and all sanitary purposes, under the Authority's scheme of water supply.

Neither the Local Authority nor the Education Committee have for a number of years been able to satisfy themselves that any appreciable benefit in respect of the spread of infectious disease would be likely to result from school closure, consequently the methods adopted against the prevention of the spread of infectious disease have been the various active steps taken by the officers of the Authority, and the exclusion of individual scholars.

HOUSING.

Up to the end of the year the total number of houses for the erection of which the Corporation had received the sanction of the Minister of Health was 1,728. 188 relate to the parlour type of house, and 1,540 to the nonparlour type. When the whole number is completed provision will have been made as follows :--Denton Street, 24; Boustead's Grassing, 32; Stanwix, 74; Longsowerby, 248; Blackwell Road Estate, 632; Wigton Road Estate, 188; Raffles Estate, 400; and Botcherby Estate, 130. The total number of houses erected at the end of the year was 1,394, and were provided as follows:—Denton Street, 24; Boustead's Grassing, 32; Stanwix, 74; Longsowerby, 248; Blackwell Road Estate, 612; Wigton Road Estate, 188; and Raffles Estate, 216.

The number of houses in course of erection at the end of the year was 334, comprising 20 on the Blackwell Road Estate, 184 on the Raffles Estate, and 130 on the Botcherby Estate, 28 being of the parlour type, and 306 of the non-parlour type.

During the year 36 houses were built by private enterprise, all of which were eligible for the subsidy under the provisions of the Housing, &c., Act, 1923. These comprise 25 of the parlour type and 11 of the nonparlour type. At the end of the year 11 houses of the parlour type, which were being built by private enterprise, were in course of erection.

Number of New Houses erected during the year :--

(a) Total (including numbers given separately un- der (b)).	140
(b) With State assistance under the Housing Acts:	446
(i) By the Level Anth it he Housing Acts:	
(i) By the Local Authority.	410
(ii) By other bodies or persons.	36
1Inspection of Dwelling Houses.	
(1) Total number of dwelling houses in-	
spected for housing defects (] D 1	
spected for housing defects (under Public	
Health or Housing Acts)	227
(2) Number of dwelling houses (included	
under sub-head (1) above) which were	
inspected and recorded under the House	
ing Consolidated Regulations 1995	05
(3) Number of dwelling houses found to be	95
in a state so dangerous or initia	
in a state so dangerous or injurious to	
health as to be unfit for human habitation	6
(4) Number of dwelling houses (exclusive	
or those referred to under the preceding	
sub-field found not to be in all managed	
A GOULIA DI V III. TOP BILLION ON L. 1 1 / /	89
someay of Derects anthout Commence CC	09
Number of defective dwelling here of formal Notices.	
Authority or their officers	19

3-Action under Statutory Powers.

 (2) Number of dwelling houses which were rendered fit after service of formal notices (a) By Owners (b) By Local Authority in default of Owners (c) By Local Authority in default of Owners (d) Number of dwelling houses in respect of which Closing Orders became operative in pursuance of declarations by Owners of intention to close (b) Proceedings under Public Health Acts— (1) Number of dwelling houses in respect of which notices were served requiring defects to be remedied (e) Number of dwelling houses in which defects were remedied after service of formal notices (a) By Owners (b) By Local Authority in default of Owners (c) Proceedings under Sections 11, 14, and 15 of the Housing Act, 1925— (1) Number of dwelling houses in respect of which Closing Orders were made (3) Number of dwelling houses in respect of which Closing Orders were determined, the dwelling houses in respect of which Closing Orders were determined, the dwelling houses in respect of which Closing Orders were made (4) Number of dwelling houses in respect of which Closing Orders were made (5) Number of dwelling houses demolished in pursuance of Demolition Orders 	3-Actio	on under Statutory Powers.	
 of which notices were served requiring repairs	(a)		
 (a) By Owners Not (b) By Local Authority in default of Owners Not (c) Number of dwelling houses in respect of which Closing Orders became operative in pursuance of declarations by Owners of intention to close Not (c) Proceedings under Public Health Acts— (1) Number of dwelling houses in respect of which notices were served requiring defects to be remedied (2) Number of dwelling houses in which defects were remedied after service of formal notices (a) By Owners		 Number of dwelling houses in respect of which notices were served requiring repairs Number of dwelling houses which were rendered fit after service of formal 	109
 (3) Number of dwelling houses in respect of which Closing Orders became opera- tive in pursuance of declarations by Owners of intention to close Non (b) Proceedings under Public Health Acts— (1) Number of dwelling houses in respect of which notices were served requiring defects to be remedied (2) Number of dwelling houses in which defects were remedied after service of formal notices (a) By Owners (b) By Local Authority in default of Owners (c) Proceedings under Sections 11, 14, and 15 of the Housing Act, 1925— (1) Number of representations made with a view to the making of Closing Orders (2) Number of dwelling houses in respect of which Closing Orders were made (3) Number of dwelling houses in respect of which Closing Orders were determined, the dwelling houses having been rendered fit		(a) By Owners	None
Owners of intention to close Non (b) Proceedings under Public Health Acts— (1) Number of dwelling houses in respect of which notices were served requiring defects to be remedied (2) Number of dwelling houses in which defects were remedied after service of formal notices 		of Owners (3) Number of dwelling houses in respect of which Closing Orders became opera-	None
 (1) Number of dwelling houses in respect of which notices were served requiring defects to be remedied 11 (2) Number of dwelling houses in which defects were remedied after service of formal notices (a) By Owners (b) By Local Authority in default of Owners (c) Proceedings under Sections 11, 14, and 15 of the Housing Act, 1925 (1) Number of representations made with a view to the making of Closing Orders (2) Number of dwelling houses in respect of which Closing Orders were made (3) Number of dwelling houses in respect of which Closing Orders were determined, the dwelling houses in respect of which Closing Orders were determined, the dwelling houses in respect of which Closing Orders were determined, the dwelling houses in respect of which Closing Orders were determined, the dwelling houses in respect of which Closing Orders were determined, the dwelling houses in respect of which Closing Orders were determined, the dwelling houses in respect of Which Demolition Orders were made		Owners of intention to close	None
 (2) Number of dwelling houses in which defects were remedied after service of formal notices (a) By Owners (b) By Local Authority in default of Owners (c) Proceedings under Sections 11, 14, and 15 of the Housing Act, 1925 (1) Number of representations made with a view to the making of Closing Orders (2) Number of dwelling houses in respect of which Closing Orders were made (3) Number of dwelling houses in respect of which Closing Orders were determined, the dwelling houses having been rendered fit (4) Number of dwelling houses in respect of which Demolition Orders were made (5) Number of dwelling houses demolished in pursuance of Demolition Orders 	(6)	(1) Number of dwelling houses in respect of which notices were served requiring	
 (a) By Owners 11 (b) By Local Authority in default of Owners Nor (c) Proceedings under Sections 11, 14, and 15 of the Housing Act, 1925 (1) Number of representations made with a view to the making of Closing Orders (2) Number of dwelling houses in respect of which Closing Orders were made (3) Number of dwelling houses in respect of which Closing Orders were determined, the dwelling houses having been rendered fit Nor (4) Number of dwelling houses in respect of which Demolition Orders were made Nor (5) Number of dwelling houses demolished in pursuance of Demolition Orders Nor 		(2) Number of dwelling houses in which defects were remedied after service of	132
 (c) Proceedings under Sections 11, 14, and 15 of the Housing Act, 1925 — Number of representations made with a view to the making of Closing Orders Number of dwelling houses in respect of which Closing Orders were made … Number of dwelling houses in respect of which Closing Orders were determined, the dwelling houses having been rendered fit Nor Number of dwelling houses in respect of which Demolition Orders were made … Number of dwelling houses in respect of which Demolition Orders were made … Nor Number of dwelling houses demolished in pursuance of Demolition Orders … Nor 		 (a) By Owners (b) By Local Authority in default 	132
 Number of representations made with a view to the making of Closing Orders Number of dwelling houses in respect of which Closing Orders were made Number of dwelling houses in respect of which Closing Orders were determined, the dwelling houses having been rendered fit Nor Number of dwelling houses in respect of which Demolition Orders were made Nor Number of dwelling houses in respect of which Demolition Orders were made Nor 	(c)	Proceedings under Sections 11, 14, and 15 of the	None
of which Closing Orders were made (3) Number of dwelling houses in respect of which Closing Orders were determined, the dwelling houses having been rendered fit Non (4) Number of dwelling houses in respect of which Demolition Orders were made Non (5) Number of dwelling houses demolished in pursuance of Demolition Orders Non		(1) Number of representations made with a view to the making of Closing Orders	6
 which Closing Orders were determined, the dwelling houses having been rendered fit Non (4) Number of dwelling houses in respect of which Demolition Orders were made Non (5) Number of dwelling houses demolished in pursuance of Demolition Orders Non 		of which Closing Orders were made	6
 (4) Number of dwelling houses in respect of which Demolition Orders were made Non (5) Number of dwelling houses demolished in pursuance of Demolition Orders Non 		which Closing Orders were determined, the dwelling houses having been	
(5) Number of dwelling houses demolished in pursuance of Demolition Orders Nor		(4) Number of dwelling houses in respect	None
		(5) Number of dwelling houses demolished	None
by Owners after service of Closing		(6) Number of dwelling houses demolished	None
Orders			6

INSPECTION AND SUPERVISION OF FOOD.

Milk Supply.

The number of milk producers in the City is 18, the number of cowsheds 32, and the average number of cows housed therein 248.

During the year there were 16 milkshops and 64 milk purveyors on the register, 34 of the purveyors being persons whose premises are situated outside the City.

With regard to the milk supply of the City, no outbreak of acute infectious illness has occurred; some of the milk, however, leaves a good deal to be desired in respect of micro-organisms and dirt content.

The larger proportion of the fresh milk retailed in the City comes from districts outside, and is sold direct from the cans, conveyed mostly by carts, and in four instances by motor vehicle. 3 purveyors retail the whole of their milk in bottles, the milk being cooled and bottled at the time of production. 7 other purveyors sell partly from the can and partly in bottle; in 5 instances the milk is cooled and bottled at the time of production on premises in the City, and in the remaining 2 instances the milk is not bottled until after its arrival in the City from farms outside.

With regard to the administration of the Milk and Dairies Order, 1926, 42 special inspections of premises have been made, in addition to which the members of the Health Committee have during the latter part of the year visited all the dairies in the area of the Local Authority upon which milk is produced, with a view of serving such notices upon the occupiers as may be necessary to secure a due compliance with the provisions of the Order.

3 licences have been issued under the Milk (Special Designations) Order, 1923, 1 to the Carlisle Co-operative Society, Ltd., in respect of pasteurising plant, and 2 to retailers, 1 of which was in respect of Certified Milk, and the other in respect of Grade A (Tuberculin Tested) Milk. There has been no refusal or revocation of registration of a retailer or of a licence for graded milk.

The following particulars, which exclude the question of tubercle bacilli, show the bacterial condition of 24 samples of milk.

No. of sample.	Date when sample was taken.	Total No. of bacteria per 1 c. c	В. (Coli pre in	esent	Total sediment (cells, cellular products, litter, dung, &c.) in parts
Sumpton	vuncii.	10.0	1 c. c.	.1 c. c.	.01 c.c.	
1 2	15th Feb. 16th May	22,000 20,400	-	-	-	17
34	15th Aug. 14th Nov.	9,300 174,000	+++++++++++++++++++++++++++++++++++++++	+++++++++++++++++++++++++++++++++++++++	+	6 15

PASTEURISED MILK.

R	AV	V	MI	LH	ς.

$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Cotal sediment (cells, llular products, litter, dung, &c.) in parts
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	per 100,000.
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	15
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	8
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	19
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	7
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	9
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	15
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	16
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	10
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	14
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	12
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	4
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	3
15 ,, 3,000,000 + + +	4
10 1 1 11 11 0 0 0 0 0 0 0 0 0 0 0 0 0	trace
	5
16 14th Nov. 258,500 + + +	48
17 ,, 16,950 + + +	20
18 ,, 1,727	24
19 ,, 565,000 + + +	19
20 ,, 570,000 + + +	27

Public	Health	(Milk	and	Cream)	Regulations,	1912
2.202.202	and 191					

1. Milk; and Cream not sold as Preserved Cream.

	examir pres	(a) of sam ned for ence of servati	the a	preser repo	(b) er in which a vative was orted to be present.
Milk	 	60			None
Cream	 	4			1

Nature of preservative in each case in column (b) and action taken under the Regulations in regard to it—

This sample contained .066 per cent. of Boric Acid, and the vendor was cautioned.

2. Cream sold as Preserved Cream.

No samples were submitted for examination.

Meat.

The Corporation maintain a commodious and wellequipped Slaughter-house, which was opened in 1893. The management is under the direction of the Medical Officer of Health, who is assisted by the Sanitary Inspector and his deputy, and a resident Superintendent at the Abattoir itself. With the exception of the three following premises all animals slaughtered in the City are dealt with at the Public Abattoir, viz., the L.N.E. Railway and the L.M. & S. Railway killing sheds, two in number, which are used exclusively for the slaughter of sheep and lambs for the Smithfield Market, and a third exclusively for the slaughter of pigs by Messrs. Cavaghan & Gray, Harraby.

Inspection of meat at the Public Slaugher-house is performed in the first instance by the Superintendent, who retains all unsound, diseased, or suspected meat for further examination by the Medical Officer of Health or other authorised officer of the Local Authority acting under him. Meat stalls are not permitted in the City, other than those situate inside the Public Market, a large covered market owned by the Local Authority. All other shops from which meat is sold are regularly inspected, and without exception every butcher's shop in the City is fitted with a window or windows.

Public Slaughter-houses.

The following Table gives particulars of Animals killed, Carcases examined, and particulars of Carcases unfit for human food:—

	Total number of animals		Number in which the whole car-	Number in which a portion of	Number in which edible	Number affected with Tuberculosis.			
Animal	slaughtered and	referred for ex-	case was unfit for human food	a carcase was unfit for human food	offal only was unfit	Whole carcase condemned	Part of carcase condemned		
Oxen	4,454	96	6.6	23	7	61	15		
Sheep	16,984	38	34	4					
Calves	193	8	8			2			
Pigs	5,548	19	13	6		3	3		
Totals	27,179	161	121	33	7	66	18		

Other Foods.

Information concerning unsound food, food inspection, bakehouses, &c., and the work under the Sale of Food and Drugs Acts will be found on pages 77 to 81.

PREVALENCE OF, AND CONTROL OVER, INFECTIOUS DISEASES.

Infectious Diseases Generally.

During the year 618 notifications of infectious disease were received, 89 of which related to various forms of tuberculosis, and 529 to other infectious diseases.

The number of deaths certified as due to the seven principal zymotic diseases was 16, equal to a zymotic death-rate of 0.2 per 1,000 of the population. In the prevous year 64 deaths were certified as due to zymotic diseases. Table showing the Age Groups and Wards in which cases of Infectious Diseases were notified during 1927.

1	mardoo	n on paromat			-			-		-	-		-		-	-			
		Number of removed to h	59			12	:	_		:				-	:			:	
	Nett number of cases notified			29	-	35		88	31	1	9	-		226	99	23	57	:	10
	-	correctly no	4	2		57		::	::	:			::	::			• •		::
		rədniun istoT	95	31	-	37		88	31	1	9	-		226	66	23	C1		10
		Belle Vue Newtown &	14		• • • •	12		-	1-	:		:		51	5	4		::	::
	Vard.	Oaldewgate	10	4		67		12	~	-	-			37	6	63		:	-
	Number of Cases notified in each Ward.	St. Cuthbert's	13	4				1-	9	::	:		::	31	1	-		:	-
	in e	Denton Denton	13	0	:	4	:	1-	• 3	:	-		::	21	4	5	:	::	-
	tified	Currock	10	0	:	4	:	18	3		-	:		15	10	00	:	:	5
	es no	Br. Nicholas	5	0	:	4		11	:	:	1			25	10	4	1	:	
	f Cas	Greystone	00	-	-	-	::	10	\$::	::		21	11	07	::		3
	ber o	Aglionby	6	-		+	::	4	00	:	-			14	61	57	1	:	
	Num	Віскет gate	12	-		~	:	00	0	:	-	:		1-	20	0	:	:	
		Etterby Etterby	9	11		67		4				:		4	3		:	:	2
	at	eð and up-	:	:		~	:	-0	-	:	:				5	-	::	:	
	tified	4D—65 years	1	:	:	16	:	4	9	1	:	:	::	:	6	5	:	:	- ::
		25—45 уеатв	4	5	-	12	::	13	10	::	;				19	4	01	::	8
	Number of Cases No various Ages	16—25 уеяга	14	20	:	4		15	9	:	::	-			18	::			2
	r of varie	р—15 уеага	55	16	:	-		27	4	:	:		::	:	16	II	:	:	
	umber	1—5 уеага	20	8		-	:	19	00	::	:	:		194	67	4	:		
	N	Jear Under I	1	:			:	20	1	:	9	:		32	:	1	:	:	
			:	:			::	nia	onia	:	::		:	:	:	sis	::	:	
			:	;				nom	eume	rica	rum				osis	culo			
				:		:	:	Pnet	Pn	hare	nato	ever	ver		rcul	uber	:		a
1			H	:	TOVER	;		LEY	nzal	Let	Neon	al F	d Fe	::	ube	T Jo	L	:	Pyrexia
			Teve		IF			rima	Aue	itis	nia	pina	hoi		T L	ms	eve		Py
			et 1	ther	pera	ipela	ria	e P	e In	phal	haln	3-010	Typ	les	onal	for	ic I	rer	era
			Scarlet Fever	Diphtheria	Puerperal Fever	Erysipelas	Malaria	Acute Primary Pneumonia	Acute Influenzal Pneumonia	Encephalitis Lethargica	Ophthalmia Neonatorum	Cerebro-spinal Fever	Para-Typhoid Fever	Measles	Pulmonary Tuberculosis	Other forms of Tuberculosis	Enteric Fever	Dysentery	Puerperal
							-	-	-	-	-	-	-	A	H	0	H	-	H

Scarlet Fever.

95 cases of scarlet fever were notified, as compared with 240 in 1926. There was no evidence of any particular local spread of infection.

59 of the patients, or 62.1 per cent., were removed to the Isolation Hospital.

No deaths of residents were registered as being due to Scarlet Fever.

2 return cases occurred.

No experimental work in connection with ascertainment of susceptibles or work in respect of immunisation has been undertaken.

Table showing notifications, cases isolated, and number of deaths from scarlet fever during the years 1923-1927.

Year.	No. of cases notified.	No. of cases isolated in Hospital.	Average period in Hospital (days).	No. of return cases.	No- of deaths.	Deaths per 100 cases.
1923	150	82	41.7	0	1	0.
1924	245	171	35-9	9	4	1.6
1925	369	190	37 9	10	4	1.0
1926	210	129	38 6	6	4	1.6
1927	. 95	59	36.1	2	0	0.

Diphtheria.

The number of cases of diphtheria notified was 31, compared with 56 in 1926.

In 2 instances the patient was subsequently found not to be suffering from diphtheria.

2 deaths of residents of the City occurred, and the death-rate for this disease was 0.03 per 1,000 of the estimated population at all ages.

15, or 48.3 per cent., of the cases notified were removed to the Isolation Hospital. No return case of diphtheria occurred.

No experimental work in connection with ascertainment of susceptibles or work in respect of immunisation has been undertaken.

Table showing notifications, cases isolated, and number of deaths from diphtheria during the years 1923--1927.

Year.	No. of cases notified.	No. of cases isolated in Hospital.	No. of deaths.	Deaths per 100 cases
1923	87	46	10	11.5
1924	68	46	9	13.2
1925	19	7	2	10.5
1926	56	35	10	17.8
1927	31	15	2	6.4

Anti-Diphtheria Serum.

24 applications were made by medical practitioners for the free supply of anti-diphtheria serum, 188,000 units having been supplied.

Table showing case mortality of Scarlet Fever and Diphtheria isolated in Hospital compared with that of Home Cases.

	SCA	ARLET	FEVER	R.	DIPHTHERIA.						
	Hosp Case		Hon Case		Hosp Case		Home Cases.				
Year.	No. of Cases Isolated.	rate	Cases	rate	No. of Cases Isolated.	rate	Cases	Death- rate per100			
1923	82	0.0	68	1.4	46	6.2	41	17.0			
1924	171	1.7	74	1.3	46	13.0	22	13.6			
1925	190	0.0	179	2.2	7	0.0	12	16.6			
1926	129	2.3	111	0.9	35	17.1	21	19.0			
1927	59	0.0	36	0.0	15	6.6	16	6.2			

Smallpox.

In view of the present situation of smallpox in this country it is gratifying to know that the City was free from this disease during the year, and no notification of any Carlisle resident having been in contact with a case of smallpox was received from any Port Medical Officer. The following notifications of residents who had been or who were supposed to have been in contact with persons suffering from smallpox were, however, received, and the contacts kept under careful observation, viz., two persons who in October were in indirect contact with smallpox in one of the large towns of Lancashire, and a third case in December, a male of the vagrant class, who was discharged at the end of November from the Newcastle Institution Hospital, where there had been an outbreak of smallpox. This man stayed at a house in Jane Street, Caldewgate, and on his entry into the Fusehill Institution a communication was received from the Medical Officer of the Institution giving me the history of the man's movements. In this instance it was necessary to keep under observation 15 contacts.

No vaccinations were undertaken during the year under the Public Health (Smallpox Prevention) Regulations, 1917.

Enteric Fever. Para-Typhoid Fever. Typhus or Continued Fever.] ceived during the year.

2 notifications relating to these diseases were re-

With regard to the 2 cases of enteric fever shown above, the first occurred at the beginning of August and the second towards the end of October, and both were undoubted cases of typhoid fever. It is somewhat difficult to disprove that these two persons were not infected in this area, but having regard to the freedom of the City from this disease over a fairly long period it is probable the infection took place away from Carlisle, and particularly as both men spend a good portion of their time in other parts of the country. One, for instance, was a commercial traveller, whose duties take him into various parts of Cumberland and parts of Northumberland and Westmorland, the second being a railway stoker, whose duties take him at times as far away as Crewe,

and in this connection it is also significant that in both instances the individuals had consumed oysters at one of the large popular watering places shortly before the commencement of the illness.

Table	showing the average number of	of cases notified	
as enteric	fever for 5-year periods, 1890	-1924, and for	
the 3 years	s 1925-1927.		

Years.	Average for periods of 5 years.	Year.	Number of cases notified.
1890-1894	21.2	1925	
1895-1899	18.6	1926	
1900-1904	12.6	1927	2
1905-1909	3.2		
1910-1914	3.8		
1915-1919	1.4		
1920-1924	2.2		

Malaria.

No notification relating to a patient suffering from malaria was received.

Dysentery.

No case of dysentery was notified.

Pneumonia.

119 notifications of pneumonia were received during the year. In 31 instances the disease was stated to be of the acute influenzal type, and in 88 instances of the acute primary type.

All were investigated by the Health Visitors and advice given as to the nursing and prevention of infection to others. 229 visits were made in this connection.

In 3 instances was the patient removed to Hospital.

Death took place in 3 instances of the cases notified as influenzal pneumonia, and in 13 instances of those notified as primary pneumonia.

Influenza.

14 deaths of residents were registered as due to influenza, as against 7 in 1926.

0	1	2	5	15	25	35	45	55	65	75	85	Total
to	and up-											
1	2	5	15	25	35	45	55	60	75	85	wards	
	1			1		2	2	2	4	2		14

Encephalitis Lethargica.

1 case of encephalitis lethargica was notified.

Cerebro-Spinal Fever.

1 case of cerebro-spinal fever was notified.

Tetanus.

No case of tetanus was notified.

Diarrhœa.

There were 13 deaths from diarrhœa during the year, and the Health Visitors paid 62 visits in connection with cases of diarrhœa and gastro-enteritis.

The following table shows the age incidence :---

Age.		No	. of Deaths.
0-1 year	 		8
1-2 years	 		1
2— 5 years	 		
515 years	 		
15-25 years	 		
25-45 years	 		2 .
4565 years	 		1
Over 65 years	 		1
			-
			13

Other Infectious Diseases.

Information relating to puerperal fever, ophthalmia neonatorum, measles, whooping cough, chicken-pox, and mumps, are given on pages 69 to 71.

Notification Fees.

The total amount paid in fees for notification of all notifiable diseases during 1927 was £57 18s. 0d.

TUBERCULOSIS.

The number of notifications of tuberculosis received during the year was 94, of which 5 were duplicates. 72 of the primary notifications were made by medical practitioners and 17 by the Authority's medical officers. 66 were in respect of pulmonary tuberculosis and 23 were in respect of other forms of the disease. The number of other cases coming to the notice of the Medical Officer of Health otherwise than by notification was 13, making in all a total of 102 new cases. The figures show an increase over those of the preceding year in respect of notifications, both on Forms A and B, and in respect of pulmonary and non-pulmonary tuberculosis, but supplemental cases were fewer, particularly in respect of non-pulmonary tuberculosis.

The total number of deaths from tuberculosis was 62, equal to a death-rate of 1.0 per 1,000 of the population at all ages. Of this number, 51, or 82.2 per cent., were due to pulmonary tuberculosis, equal to a death-rate of 0.9 per 1,000 of the estimated population. There is a decrease in the death-rate, as compared with 1926, of 0.1 per 1,000 for all cases, but an increase of 6.1 per cent. in the deaths due to pulmonary tuberculosis, which is equal to an increase of 0.1 per 1,000 of the population. 17.7 per cent. of the total deaths were persons who had not been notified; this shows a slight decrease on the figure for 1926, which was 22.2 per cent. A further 8 per cent. died within a week of notification, so that in respect of one-fourth of the total cases the Local Authority were unable to exercise any action, preventive or otherwise, and the fact that only 61.4 per cent. of those dying from tuberculosis survived for more than one month, and only 37 per cent. for more than three months after notification, indicates that these victims had arrived at a very late stage of the disease before a notification reached the Local Authority. It is known, of course, that some of these sufferers do not consult their doctor until they are in an advanced stage of the disease, but on the other hand cases come to my notice where patients have been under the care of medical practitioners for many months before a notification is received.

No proceedings have been taken on the grounds of wilful neglect or refusal to notify, but some time ago the Town Clerk addressed a letter upon this subject to all medical practitioners in the area, as follows:---

"The Ministry of Health have been in communication with the Local Authority, pointing out that the percentage of new cases of Tuberculosis formally notified of all new cases in the City during the year 1926 is very low and shows a decrease during the past three years.

As you are aware, the Public Health (Tuberculosis) Regulations, 1912, provide that every medical practitioner attending on, or called in to visit, any person (whether at an Institution or otherwise) shall, unless he has reasonable grounds for believing that the case has already been notified, within 48 hours after first becoming aware that such person is suffering from Tuberculosis, make and sign a notification of the case on the forms provided, and shall transmit the notification to the Medical Officer of Health for the district within which the place of residence of the person is situate at the date of notification.

In directing attention to the requirements of the Regulations the Ministry of Health enquires whether the Local Authority have considered the question of instituting proceedings for the recovery of a penalty in any case of wilful neglect or refusal to carry out the requirements of notification under the Regulations. Any person who wilfully neglects or refuses to obey or carry out the Regulations is liable to a penalty not exceeding £100.

The Health Committee have had the matter under consideration, and I enclose an extract from the minutes of their proceedings, confirmed by the Council.

The Committee desire to avoid, if possible, the institution of legal proceedings against any medical practitioner, and they have therefore requested me to specially direct the attention of all medical practitioners in the City to the requirements of the Regulations, in the hope that all practitioners concerned will, by strict compliance with the Regulations in the future, co-operate with the Local Authority in their efforts to safeguard the public health.

I am to add that the services of the Local Authority's Tuberculosis Officers may be utilised freely, in order that in any doubtful case a definite diagnosis may be arrived at as soon as possible."

CITY OF CARLISLE.

Extract from the minutes of the proceedings of the Health Committee held on the 27th day of May, 1927, confirmed by the Council on the 14th day of June, 1927.

PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1912.

The Town Clerk reported that the Ministry of Health had made enquiries as to the low percentage of new cases of Tuberculosis notified to the Medical Officer of Health, in accordance with the requirements of the above Regulations, and submitted a letter, dated the 2nd instant, from the Ministry, enquiring whether the Council had considered the question of instituting proceedings under the provisions of the Public Health Act, 1896, for the recovery of a penalty in any case of wilful neglect or refusal to carry out the requirements of notification under the Regulations, and the Medical Officer reported thereon.

Resolved—That the Town Clerk be requested to direct the attention of all medical practitioners in the City to the requirements of the Regulations, and that failing compliance with the requirements thereof in the future, proceedings be instituted for the enforcement of the penalties.

Truly extracted,

A. H. COLLINGWOOD,

Town Clerk.

	Dea	ths	New	Cases.	Notific on Forms		
Year	Pulmonary	Non- Pulmonary	Pulmonary	Non- Pulmonary	Pulmonary	Non- Pulmonary	
1923	40	14	78	24	71	16	
1924	49	20	109	31	104	20	
1925	49	7	97	20	88	15	
1926	48	15	62	28	55	16	
1927	51	11	74	28	65	23	

The number of cases on the Notification Register at the beginning of the year was

Type.	Male.	Female.	Total.
Pulmonary	 157	156	313
Non-Pulmonary	 43	45	88
All Cases	 200	201	401
			The second

and after complete revision the number still on the Register at the end of the year was

Type.	Male.	Female.	Total.
Pulmonary	 145	141	286
Non-Pulmonary	 46	47	93
All Cases	 191	188	379

The usual tables showing the incidence of the disease, ward distribution, &c., are appended, and are explained by the context.

With regard to the work of the Tuberculosis Dispensary, 107 new cases were examined during the year, in addition to 8 other cases transferred from other areas or "lost sight of" cases returned. 81 of the cases were examined after notification or as suspected cases of tuberculosis, while 26 were contacts. 59 of the first group were found to be definitely tuberculous, 12 were classified as doubtful, and 10 were not suffering from tuberculosis. Of the 26 contacts, 3 were definitely tuberculous, 6 were doubtful, and 17 were not tuberculous. Of the 62 actual new cases, 50 were suffering from pulmonary and 12 from non-pulmonary tuberculosis, 41 being adult cases and 21 children.

The number of old cases on the Dispensary Register at the beginning of the year was 334, and of this number 220 submitted themselves for re-examination, bringing the total number of persons under supervision at the Dispensary to 335. These made a total of 943 attendances, of which 256 were by insured persons, 48 by discharged soldiers, 500 by school children, and 139 by other categories. 131 visits were made by the Tuberculosis Officer to the homes of patients.

There is a decrease in the number of attendances at the Dispensary of school children in respect of injections of tuberculin, but this practice was discontinued in the latter half of the year; the total number of injections given was 207.

143 sessions were devoted to the work of the Tuberculosis Clinic, and the average number of persons attending per session was 6.6.

The yearly revision of the Tuberculosis Dispensary Register of persons under supervision has resulted in 31 patients being written off as cured. The names of 66 persons have been removed as non-tuberculous, 41 have died, and a further 41 have been lost sight of. At the end of the year the number still on the Register was 270, of whom 249 were definitely diagnosed as tuberculous, and in 21 instances the diagnosis was incomplete. Of the definite cases, 200 are pulmonary and 49 non-pulmonary.

The tuberculosis nurses of the Local Authority visited the homes of all new cases notified during the year, and also of all patients on the Register.

Bacteriological examination of sputum was carried out in respect of all new cases and certain other cases, as an aid to classification of the disease, and 36 specimens were submitted by medical practitioners with a view to establishing a diagnosis. In a number of instances consultation with the Tuberculosis Officer was requested in cases of suspected tuberculosis, a procedure which I am of opinion should much more often be employed by medical practitioners.

Considerable difficulty is experienced in obtaining a satisfactory examination of contacts, but there is some improvement to be noted in this direction, more particularly with regard to children. Cod liver oil and malt, or Virol, was supplied in 14 instances, thermometers to 5 patients, and sputum flasks to 2 patients. No medicines were supplied from the Dispensary.

Information with regard to sanatorium treatment is given in the accompanying tables, from which it will be seen that 51 cases were dealt with in this manner, one of the cases being for observation only, and 2 ex-Service pensioners undergoing treatment at Preston Hall Colony, Avlesford, Kent. The average duration of residential treatment at Blencathra Sanatorium was 110 days for the 28 patients discharged during the year, 11 having been treated for less than 3 months, 11 from 3 to 6 months, and 6 from 6 to 12 months. The figures show that fewer cases were treated at the Sanatorium, and the period of treatment in respect of the cases discharged during the year was very slightly reduced, as compared with the preceding year. It is necessary to mention, however, that in regard to the 21 patients still undergoing treatment in the Sanatorium at the end of the year the average period of residence on that date was 207 days per patient. The type of case treated during the year, speaking generally, required fairly prolonged treatment, and the number of beds occupied during the winter months was larger than usual.

A new table is included for the first time in this Report, summarising the condition of patients who have come under the Authority's Scheme for the treatment of tuberculosis. Owing to the difficulties encountered in establishing a card index for patients dealt with many years ago it has not been possible to include in the present return statistics previous to 1924, but the investigation is continuing, and in time it is hoped to be able to give a complete table, which the Ministry of Health have asked to be furnished with if at all practicable.

No action was taken under the Public Health (Prevention of Tuberculosis) Regulations, 1925, nor under Section 62 Public Health Act, 1925.

A-AVERAGE NUMBER OF BEDS AVAILABLE FOR PATIENTS DURING THE YEAR 1927.	NUMBE	R OF BEDS	Residential Institutions. IS AVAILABLE FOR PATI	FOR PATIEN	TS DURING	THE YEAR	1927.
			Pulmonary 7	Pulmonary Tuberculosia	Non-Pulmonary Tuberculosis	y Tuberculosis	
		Observation	" Sanatorium " Beds	" Hospital" Beds	Disease of Bones and Joints	Other Conditions	Total
			•				-
Adult Males					:		
Adult Females				:			20
Children under 15		•••					
Total		••			***		
* The Local Authority have a call upon 20 beds at the Blencathra Sanatorium, but there is no fixed agreement as to the number	ve a call	upon 20 beds at	the Blencathra	Sanatorium, but ass of case, aith	t there is no fixed ough this Institu	agreement as intion strictly do	to the number es not provide
which sum be available to called advanced cases	called ad	vanced cases.	0		,		
B-EX1	TENT (OF RESIDEN	B-EXTENT OF RESIDENTIAL TREATMENT DURING THE YEAR 1927.	MENT DURIN	NG THE YEA	R 1927.	-
		T T T T	i v T i a desired desired desired dur. Diad in the	Indiana Diochay	and dur. Die		In Institutions

		In Institutions on Jan. 1.	In Institutions Admitted during Discharged dur- on Jan. 1. the year ing the year	Discharged dur- ing the year	Died in the Institutions	In Institutions on Dec. 31
	atin	M. 5	16	11	:	10
	₽¥ Fi	1	12	10	1	3*
Number of Patients	dren dren	M. 1	4	2	:	63
	CP!	. 6	5	4	:	.9
	ediu.	M		:	:	:
Number of Observation Cases	P A		1	1		
	nərbi İ	M		:		:
	н 190					
	Total	13	38	28	1	1 22
	*	* One female attained adult age during period of treatment.	adult age during	period of treatmen	ıţ.	

							/					
		Pulm	Pulmonary		4	Non-Pulmonary	monary			Total	tal	
Diagnosis	Adults	ults	Children	ren	Adults	lts	Children	Iren	Adults	lts	Children	ren
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	М.	H
A-New Cases examined during the year (excluding contacts): (a) Definitely tuberculous (b) Doubtfully tuberculous (c) Non-tuberculous	20 3 1 3	20 1 2	17 CP 17	10 + 0)	- : :		:: ۵	* : : :	2 1 1 3	20 1 2	17 0 08	10 4 3
BContacts examined during the year : (a) Definitely tuberculous (b) Doubtfully tuberculous (c) Non-tuberculous	: : ¹ 0	: - 00	: eo eo	0 10 19	:::	:::	- : :	:::	. 19	: r- m	es es	0 13 15
C-Cases written off the Dispensary Register as (a) Cured	10	13	4	L	1	:		1	9	13	4	00
tuberculous (including cancella- tion of cases notified in error)	9	12	20	22	:		1	2	6	12	21	24
DNumber of Persons on Dispensary Register on December 31st: (a) Diagnosis completed	58 1	60	40 8	42 10	4		15	20 1	65 1	67 1	55 8	62 11

Work of the Dispensary.

Work of the Dispensary-continued.

1		3 16	1.8.1	3207	11	1	85	12		23
Number of Patients to whom Dental Treatment was given, at or in connection with the Disnessary	Nun	(a) At Homes of Applicants (b) Otherwise	Number of other visits by Tuberculosis Officers to Homes	Nur	Number of (a) Specimens of sputum, &c., examined	in connection with Dispensary work	Number of Insured Persons on Dispensary Register on the 31st December	Number of Insured Persons under Domiciliary Treatment on the 31st December	Number of reports received during the year in	(a) Form G.P. 17
6	10.		11.	12.	13.		14.	15.	16.	
334	00	41	41	13	943				1	1
 Number of Persons on Dispensary Register on January 1st 	2. Number of Patients transferred from other areas and of "lost sight of" cases returned	3. Number of Patients transferred to other areas and cases "lost sight of"	4. Died during the year	 Number of observation cases under A (b) and B (b) on previous page in which period of observation exceeded 2 months 	5. Number of attendances at the Dispensary (including Contacts)	7. Number of attendances of non-pulmonary cases at Orthonadie Out-stations for treatment or	supervision	 Number of attendances, at General Hospitals or other Institutions approved for the purpose, of patients for 	(a) "Light" treatment	(b) Other special forms of treatment

3 16

Results of treatment of patients and of observation of doubtful cases discharged from Residential Institutions.

	to the ion.	Real States	Dui	atio	n of	Res	sider	ntial	Tre	eatn	aent	in	the	Inst	itution.
	Classification on admission to the Institution.	Condition at time of discharge.		Inde			B-6			-12 onth		Moi 12	re t mon	han ths.	Total.
i	Ola adm L		M.	F.	Ch.	М.	F.	Ch.	M.]	F.	Ch.	М.	F.	Ch	
	Class T.B. minus.	Quiescent Improved No material improvement Died in Institution		2	•	••••	 5 	3	1		 1 		•••		1 13 1
T UBRROUTINEID.	Class T.B. plus. Group 1	Quiescent Improved No materialimprovemen Died in Institution	t				•••			: : : :	•••				
LULMONART	Class T.B. plus. Group 2.	Quiescent Improved No material improvemen Died in Institution	. 1 t					 1	 1 	(1 				 6 1
	Class T.B. plus. Group 3.	Quiescent Improved Nomaterial improvemen Died in Institution	t 2			1			 1 1 		11:::				 2 3 1
ž	Bones and Joints.	Quiescent or arrested Improved Nomaterial improvemen Died in Institution	t	• •••											
NON-PULMONARY LUBERCULOSIS.	Abdominal.	Quiescent or arrested Improved No material improvemen Died in Institution		• •••											···· ··· ···
N-FULMONARY	Other Organs.	Quiescent or arrested Improved Nomaterial improvemen Died in Institution	t										• • • • • • • • • • • • • • • • • • • •	1 ::: :	
IND	Peripheral Glands.	Quiescent or arrested Improved Nomaterial improvemen Died in Institution	t							····	2				···· ··· ···
			1	Und	er ek.		1-		Í,	2- veel			ore t wee	han ks.	1
	Observat on for purpose of diagnosis.	Tuberculous Non-tuberculous Doubtful								1	1			į	

(a) PULMONARY TUBERCULOSIS.

Annual Return showing in summary form the condition of all Patients whose case reconstruction of the Dispensary (or Dispensaries) at the end of 1927, arranged according to the years in which the patients first came under Public Medical Treatment for pulmon tuberculosis, and their classification as shown on Form A.

	tube	rculosis, and	ener			_					1				1	1	1	-		
Γ	plue	Total (Class) (Stars) (Class)	::	:	:			:		::	9	-1	:	:	:		80	6	1	
	B	Group 3	::	:	:	:		:	:		2	2	:	;		:	9	10	1	
1927	Class T.	Group 2	-	:	:		-	:	:		00	4	:	:		:	1	4	:	
	CI	Group 1	:	:	:		:	1	:	:	-	H	:	:	-	:	-	:	:	
	snu	im .H.T sasiO			:			:	:	:	9	1	-	9	:	:	1:	:	:	
	plus	Total (Class (aniq .H.T	:	:	:			:	:		4	00	::	0	-	:	14	4	:	1
	in P	Group 3		:	:	:	:	:			:	;	:	:		:	2	:	1	1
1926	Class T.	Group 2	:	:	1	:	:	:			3	2	:	- 67	1		2	63		***
	G	Group 1		:	;	: : :		:	:		-	1	:	-	1		21	-	:	
	snu	im .H.T ssalO	:	:	:	:	::	:		-	-	1	00	20	61	-	:	2	:	
Γ	plus	assiO) istoT (suiq .8T		:	:		:	:	:		2	:	:		-	1	15	6	1	-
	T.B. I	g dnoaĐ	:	:	1	:	::	:	:		-	:	:	:			9	4	:	
1925	Class 7	Group 2	:	:	:	:	:	;	;	:	00	;		:	F	1	2	4	:	
	0	I quorĐ		;	:	:	:	:	:	:	П	:			:	:	5	1	1	1
L	snu	ica . F. asalO	:	:	:	::	:	:	:	:		10	01	4	4	13	67	:	:	-
	plus	Total (Class T.B. plus)		:			:	:	:	:	59	1	:		:	:	15	13	:	-
4	T.B.	Group 3	:	:	:		:	;	:		:	:	:		:	-	2	9	:	
1924	Class T.B. plus	Group 2	:		:	::	:	:	:		-		:	:	:		00	4	:	1
		Group 1	:	:	:		:	:	:		-	-	:				5	00	:	
-	snu	ol: ss T.B. mi	:	1	:	:	:	67	4	4	-	4	9	5	- 1	- C1	2	1	:	:
		g	M.	E.	M.	F.	M.	F.	M.	F.	W.	Ë.	M.	E.	ring	ved.	W.	н.	M.	÷.
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		Condition at the time of the last record made during the year to which the Return relates		Discharged as	cured			Disconstructured				Disease not	arrested		ondition not ascertained during the Year	Lost Sight of or otherwise removed from Dispensary Register		Theart	-lia	11.0
L								NAI	AL						Condit	Lost ? frou				

(b) NON-PULMONARY TUBERCULOSIS,

Annual Return showing in summary form the condition of all Patients whose case records ire in the possession of the Dispensary (or Dispensaries) at the end of 1927, arranged iccording to the years in which the Patients first came under Public Medical Treatment, and heir classification as shown on Form A.

nen classific		1 44.5	5110			or un		_												and here
IntoT	:		:				:			:	9	4	1	:		:		:		11
Peripheral	:	÷	:			:	:	:		:	67	1	:	:		:	:	:		00
Other	:	:	:	:	:	:	:			:	:	1		:	:		;	:		1
IsnimobdA	:	:	:	:		:	::	:		:	::	1		:	:	:	:	:		1
Bones and Joints	:	:	:	:		:	:			:	4	1	1	:	:		• :	;		9
IntoT	:	:	:	:		:	:	:	1	:	00	60	1	-0	-	:	:	:		11
Peripheral Glands	:	:	:	::		:	:	:	1	:	1	8	:	1		:	:	:		22
Other Organs	:	:	:	:		:	1			:	:	:	:				:	:	:	:
InnimobdA.	:	:	:	::		:	:			:	1		-	-	-	:	:	:		4
Bones and Joints	:	:	:			:	1		1	:	1				:	:	:	:		5
IstoT	:	÷	1	1	:	:			1	00	:	4		-		-		•	1	13
Peripheral Glands		:	:	П	:	:	:			1	:	00		;	:	-	:			9
Other Organs		:	:			:	:	:			;			:	:		;	:	1	1
lanimobdA	:	:	1	:		:	:	:		:	:		:		:	:	:	:		1
Bones and Joints		:	:	:	:	:	:		-	2	:	-	:	-	:	1:		:		2
IatoT	1						2	2	1		1		-	1	2					9
Peripheral Glands		;	:	::		:.	-	57		:	1	:	:		:	:	:	:	:	4
Other Organs	:	:	::				:	:		:	:	:	:		:	:	:	:	. :	:
lanimobdA		;	:	:		1	:			:		4.4.4	-		-	:	:.	:	:	1
Pones and	:		:			:	1	- :	1	:	:	::	:	-	-	:	1	:		4
ich	M.	Æ.	M.	F.	M.	F.	M.	E.	M.	F.	M.	F.		ring	boved	M.	H.	M.	F.	
te cord co wh es.	attu	1 b A		qre OP	sili	np¥	ua -li	gre Ch	stic	npy	-lin n9	qu OP	ry	ub be	e rem ister	stla	ıbA		que OP	:
Condition at the time of the last record made during the year to which the Return relates.		Discharged as	cured			Disconce and the	Disease arrested			Disease not	arrested		Transferred to Pulmonary	Condition not ascertained during the Year	Jost Sight of or otherwise removed from Dispensary Register		Deen	DEAD		ToTALS
mac						AV	Υr						Trans	Condition	Lost Sig from					

Summary of Notifications of Tuberculosis from 2nd January, 1927, to 31st December, 1927.

NOTIFICATIONS ON FORM A.

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NOTIFICATIONS ON FORM B.

		INUI	mber	Number of Primary Notifications.	imary ns.	Total Noti-
	Ages. 0-5 5-10 10-15 Total.	0-5	5-10	10-15	Total.	fications on Form B.
Pulmonary	Males Females	::	101	- 1-	- 0	1
Non-pulmonary	Males Females	::	1 13	01 02	4 00	9 4
	Totals	:	2	5 12	17	17

		Poor Law Institutions.	Sanatoria.
Pulmonary. Non-pulmonary	Males Females Males Females	∞ : : :	20 17 1
	Totals	2	39

48

NOTIFICATIONS ON FORM C.

Supplemental Return.

New cases of tuberculosis coming to the knowledge of the Medical Officer of Health otherwise than by notification on Form A or Form B under the Public Health (Tuberculosis) Regulations, 1912.

Ages.	0-1	1-5	5-10	10-15	15-20	20-25	25-35	35-45	45-55	55-65	65 and up- wards.	Total Cases
Pulmonary- Males							1			1	1	3
Females							1	2		2		5
Non-pulmonary Males									1	1		2
Females	1	1	1									3
Totals	1		1				2	2	1	4	1	13

The total number of deaths of City residents registered from all forms of tuberculosis was 62, equal to a death-rate of 1.0 per 1,000 of the population at all ages. Of this number, 51 (82.2 per cent.) were due to pulmonary tuberculosis, equal to a death-rate of 0.9 per 1,000 of the estimated population at all ages.

Distribution of the Deaths from Tuberculosis in the various Wards of the City, 1927.

		Stanwix and Etterby	Rickeigate	Aglionby	Greystone	St. Nicholas	Currock	Denton Holine	St. Cuthbert's	Caldewgate	Newtown & Belle Vue	Carlisle
Pulmonary		2	5	3	4	7	9	5	7	6	3	51
Non-pulmonary			1		2	2	1	1		3	1	11
Totals	-	2	6	3	6	9	10	6	7	9	4	62

Ages.	0-1	1-5	5-10	10–15	15–20	20-25	25- 3 5	35-45	45-55	55-65	65 and over.
New Cases.								17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	no.ili		
Pulmonary— Male Female Non-Pulmonary— - Male Female	 1 1	2 1 4	1 4 3 2	4 7 3 4	4 3 	4 7 	6 6 1	4 7 2 1	5 2 2 	2 3 1 1	2 1 1
Deaths. Pulmonary— Male Female Non-Pulmonary— Male Female	 1	1 2	 2	 1 	1 5 	4 7 · 1 	3 8 1	6 2 1	4 1 	3 3 1 	2 1 1

Age and Sex distribution of New Cases and Deaths from Tuberculosis, 1927.

Table showing the period persons dying in 1927 survived after notification.

	ed	on	in		6	Sur	vived	l m	ore	that	n		
	Not Notified	Died before Notification	Died within 7 days	1 week	1 month	3 months	6 months	9 months	1 year	11 years	2 years	3 years	4 years
Pulmonary	7		3	41	34	21	20	15	13	10	8	5	3
Non-Pulmonary	4		2	5	4	2	2	2	1	••••			

Deaths from Tuberculosis, Influenza, and other Respiratory Diseases, 1923-1927.

Year.	Pulmonary Tuberculosis.	Non-Pulmon- ary Tubercu- losis.	Tuberculosis, all forms.	Influenza.	Other Respir- atory diseases.
1923	40	14	54	7	89
1924	49	20	69	23	115
1925	49	7	56	21	100
1926	48	15	63	7	92
1927	51	11	62	• 14	126

VENEREAL DISEASES.

During the year 211 persons residing in Carlisle, 153 of whom were males and 58 females, were under treatment or observation at the Clinic at the Cumberland Infirmary. This is an increase of 35 persons upon the figure for 1926.

104 new patients attended for the first time, as compared with 79 for 1926.

73 patients were found to be suffering from syphilis, 11 from non-syphiltic chancre, 107 from gonorrhœa, and 20 from conditions other than venereal disease.

1550 attendances were made by these patients, a decrease of 113 on the figure for the previous year. In addition, 1238 attendances were made by patients for intermediate treatment by irrigation. 439 doses of arsenobenzol compounds were administered to patients.

5 medical practitioners in the area are entitled to free supplies of arsenobenzol compounds, and 16 doses were issued during the year in this connection.

With regard to the examination of pathological material, in addition to the figures in the following table 56 specimens for Wassermann re-action were sent on behalf of medical practitioners to the Public Health Laboratory, Manchester.

No action has been taken in the area under the Venereal Diseases Act, 1917.

Clinics.

Clinics were held on the same days and at the same hours as in the previous year, viz.:—for women and children on Mondays at 2-30 p.m. and Thursdays at 5-30 p.m. The male clinics for syphilis were held on Wednesdays at 2-30 p.m. and Thursdays at 6 p.m., and the male clinics for gonorrhœa on Wednesdays at 6 p.m.

New cases were seen at any of the clinics.

Return relating to all persons resident in the City of Carlisle who were treated at the Treatment Centre at the Cumberland Infirmary during the year ended 31st December, 1927.

		Sypl	Syphilis.	Soft Chancre.	ft lore.	Gonorrhæa	rhœa.	Condition other than Venereal.	Conditions other than Venereal.	Total.	tal.
		W	H	W	H	M	F	M	jin ji	M	64
	Number of cases which— (a) at the beginning of the year under report were u ment or observation for (b) had been marked off in a previous year as have	29	13	:	:	32	Ξ	:	:	19	24
	report suffering from the same infection	*	2			5	••	1		6	5
1	TotalItems 1 (a) and 1 (b)	32	15			37	14	1		20	29
63	(a) Number of cases dealt with at the Treatment Centre during the year for the first time	16	10	10	1	49	7	8	11	83	29
	Total—Items 1 (a), 1 (b), and 2 (a)	48	25	10	1	86	21	6	11	153	58
	(b) Number of cases included in Item 2 (a) known to have received previous treatment at other Centres for the same infection	0	8		1	53	:	:	:	5	8
e,	Number of cases which ceased to attend— (a) before completing the first course of treatment for	1	2	1	:	19	8		:	21	10
		10			::		::	::	::	10 16	22 :
÷ .	Number of cases transferred to other ireatment Centres a treatment for	4		2	:	5	2	:	;	11	3
· ·	Number of cases discharged after completion of treatment and observation for	••	:	9		21	4			30	4
0	number of cases which, at the end of the year under report, under treatment or observation for	26	18	·	1	30	2			56	26
	Total-Items 3, 4, 5 & 6	48	25	10	1	86	21			144	47
4	Out-Patient attendances	388 57	335	48 6	1	596 1175	140	19	23	1051 1238	499
	Total Attendances	445	335	54	1	1771	140	19	23	2289	499
-	Aggregate number of " In-patient days" of treatment given:-Nil. Nun	nber of d	oses of 4	Ir son ober	nzol Com	pounds i	n Out-pa	Number of doses of Arsenobenzol Compounds in Out-patient Clinic:-439.	inic:-43	9.	

Examinations of Pathological Material :--

		Gonococci.	Other Organisms.	For Wasser mann Re-action.	
(a) Specimens which were ex- amined at, and by the Medical Officer of, the Treatment Centre		70	14		
(b) Specimens from persons attending at the Treat- ment Centre which were sent for examination to an					
approved laboratory	1	8	1	155	

With regard to the joint scheme of the County Council and the City, during the year a total of 311 persons were treated at the treatment centre at the Cumberland Infirmary, Carlisle, of whom 165 were seen for the first time, the remainder being carried over from the previous year. 29 of these were found not to be suffering from venereal disease, leaving 282. The figure for 1926 was 220.

In the number of new cases of syphilis (39) there was a decrease of 1, and an increase of 29 in the new cases of gonorrhœa (85).

Areas in which		New	Total
Patients resided		Patients	Attendances
Carlisle	 	112	2,788
Cumberland	 	34	394
Westmorland	 	3	35
Essex	 	1	1
Leeds	 	1	2
London	 	2	3
Manchester	 	1	1
Newcastle	 	2	7
Reading	 	1	1
Sunderland	 	1	6
Dumfriesshire	 	6	130
Glasgow	 	1	1
		165	3,369

MATERNITY AND CHILD WELFARE.

1,045 notifications of birth, or 173 fewer than in 1926, were received during the past year; 997 of these related to live births and 48 to still-births. 532 notifications were by medical practitioners and 513 by midwives. In 14 instances only did failure to notify the birth occur; 12 of these were live births and 2 were still-births.

Health Visitors.

The following is a summary of the visits paid by the Corporation Health Visitors :---

Corporation meater visitors.				
Total number of homes visite			· · · ·	11,807
Primary visits in connection	with th	ne notifi	cation	
of births				1,016
Re-visits to children betwee	n			
0—1 year			3,863	
1—2 years			3,342	
2—3 years			2,690	
3—4 years			2,739	
4—5 years			2,240	
				14,874
Total number of routine visi	ts to ch	ildren		15,890
Visits to children nursed or m	aintain	ed by p	ersons	
other than the parer	its	۲		82
Visits to expectant mothers-				
Primary			186	
Re-visits			210	
				396
Visits in connection with-				
Deaths of children under	· 1 year			56
Ophthalmia Neonatorum				23
Diarrhœa				62
Bronchitis				80
Broncho-pneumonia				26
Acute Lobar and Influen	zal Pne	umonia		203
Measles				553
Whooping Cough				100
Chicken-pox				319
Mumps				143
Phlegmasia				6
Puerperal Fever and Pue	erperal	Pyrexia		8

Inspection of Midwives.

During January, 21 certified midwives gave notice of intention to practise, one of the 22 remaining on the register at the end of 1926 having died. On various dates during the year 8 other midwives notified their intention to practise, making a total of 29. 5 midwives left the City, 3 being members of the District Nursing Association staff who were replaced by others, leaving at the end of the year 24 midwives on the register, of whom 5 are employed in hospitals. The midwives other than those employed in hospitals attended a total of 382 confinements. No case of puerperal fever occurred in the practice of a midwife.

Notices, in accordance with the rules of the Central Midwives' Board, were received in respect of the following conditions:—

Cases in which a midwife called for the assistance	
of a medical practitioner	120
Notification of the intention to substitute artificial	
for breast feeding	31
Notification of still-births	8
Notification of having laid out a dead body	2
Notification of death before a doctor's arrival	1
Notification of liability to be a source of infection	2

The conditions for which medical help was either obtained or advised are as follows : --

Condition of Mother-

Ante-natal		· · · ·	 	12
Hæmorrhage			 10	
Others			 2	
During Labour			 	29
Delayed Labour	·		 13	
Malpresentation			 6	
Miscellaneous			 10	
Post-natal			 	46
Retained Secure	dines		 6	
Ruptured Perin	eum		 34	
Phlebitis			 4	
Others			 2	

Condition of Child		0	
Feebleness		9	
Malformation		5	
Inflammation of the Eyes		15	
Others		4	
and the first of the later and the second		0	11
The following are stated as the	reason	s for	the
substitution of artificial feeding :-			
By doctors' orders, on account of-			
Debility of mother			5
Mother's milk insufficient			11
Condition of breasts or nipples			1
No definite reason			7
No definite reason			
			24
			~1
D :1 :			
By midwives, on account of-			
Insufficient milk			2
Condition of nipples			1
Disinclination of mother			2
Infant nursed out			2
			7

60 visits, viz., 28 routine and 32 special, were made to midwives for the purpose of supervision at their own homes, and their bags, outfits, and registers have been regularly inspected.

Letters relating to the following matters in connection with the rules of the Central Midwives' Board were written to midwives, viz. :--

Failure to notify a birth		1
Irregular action in sending for medical help		7
Inaccurate entry in form calling for medical	help	1
Failure to notify intention to practise	·	1
Re Returning unused Registers, &c		1

Home Nursing.

Under the arrangement with the Carlisle District Nursing Association the following conditions were attended to by their nurses : ---

Condition of Child

33

. . .

		1	No. of Cases.	No. of Visits	
Pneumonia			2	47	•
Ophthalmia	Neonatorum		1	4	
				51	

Corporation Maternity Home.

182 patients received treatment in this institution, being 10 more than the previous year. 13 of the patients were admitted upon the request of medical practitioners, *i.e.*, 4 more than during 1926.

There was no maternal death during the year.

Obstetrical operations were performed as follows:-Application of Forceps, 12; Induction of Labour, 2; External Version, 12; Internal Podalic Version, 2; Cæsarean Section, 2; Craniotomy, 1; Episiotomy, 1; Manual Removal of Placenta, 2; Repair of Perineum, 44.

The Corporation Maternity Home is recognised as a training school for pupil midwives, and during the period of its existence 23 pupils have received their training and sat for the examination of the Central Midwives' Board. No failure has occurred, every pupil having passed the examination at the first attempt.

The following particulars relate to the work of the Maternity Home: ---

additional and a second s			
In hospital on 31st December, 1926			3
Admitted during year			179
			182
			1
Average duration of stay		12.1	days
Number of cases delivered by midwives		154	
Number of cases delivered by a doctor		24	
Total number of confinements		178	
Number of cases treated ante-natally only		1	
Number of cases treated during puerperi	um		
only		3	

Number of cases in which medical	l assistance was
specially indicated :	
Mothers-	
Before Labour	19
Albuminuria	2
Malpresentation	13
Pelvic Contraction	1
Heart Disease	2
Hyperemesis	1
During Labour	34
Pelvic Contraction	3
Delayed Labour	11
Placenta Prævia	2
Hydramnios	1
Malpresentation	9
Accidental Hæmorrhage	3
Prolapse of Cord	2
Eclampsia	1
Retained Placenta	2
After Labour	59
Rupture of Perineum	
Raised Temperature	44
Cardina Dianan	1
Ishiel Ab	2
Albuminumia	1
Post Portum Hannel	1
Mostific	
70	
	30
Atelectasis	2
Cerebral Hæmorrhage	1
Malformation	1
Feebleness	3
Artificial Feeding	16
Slight Inflammation of Eyes	6
Tongue Tie	1
Number of Maternal Deaths	None

Still-birt	hs					13
Caus	ses—					
	Prolapse of Cord				1	
	Accidental Hæmorr	hage			2	
	Placenta Prævia				2	
	Post Maturity				1	
	Malpresentation		10000		1	
	Maternal Condition-	-Albu	minuri	a	1	
	Prematurity				1	
	Pelvic Contraction				1	
	No cause ascertaine	d			3	
Died bef	ore 10 days					7
	ses—					
	Malpresentation				1	
	Malformation				1	
	Prematurity				2	
	Atelectasis				1	
	Eclampsia				1	
	Accidental Hæmorr	hage			1	
Total nu	mber of Fœtal Deat	hs				20
	ns necessitating th			on o	f	
	icial feeding for bre					
	artly		, and the second			16
- P	Insufficient Milk				9	
	Mastitis				1	
	Tubercular Disease				2	
	Cardiac Disease				1	
	Albuminuria				1	
	Twins				2	

Ante-Natal Clinic.

The number of attendances by expectant mothers was 631, or 47 more than last year. Of these, 185 were first visits of new patients. It will be seen that patients pay three or four ante-natal visits each; this gives a good opportunity for the detection of any adverse condition which may be present.

Among the conditions in which medical attention or advice was given were the following:—Heart disease, tuberculosis, bronchitis, rheumatism, hyperemesis, dyspepsia, hydramnios, albuminuria, varicose veins, vulvitis, pelvic contraction, malpresentation, hæmorrhage, and œdema.

Infant Consultations.

At the clinics for children up to five years of age there were 836 attendances, or 100 more than in 1926, of which 225 were attendances by new cases, and treatment or advice was given in the following conditions:— Malnutrition, injudicious feeding, debility, marasmus, diarrhœa, dyspepsia, constipation, teething, worms, hernia, rickets, bronchitis, suspected phthisis, heart disease, anæmia, eczema, papilloma, chondroma, impetigo, ptosis, conjunctivitis, ophthalmia, otorrhœa, deafness, adenoids, phimosis, tongue-tie, stomatitis, adenitis, congenital syphilis, paralysis, and mongolism.

Voluntary Agency.

BABIES' WELCOMES AND SCHOOLS FOR MOTHERS.

The work at the Infant Welfare Centres continues satisfactorily on the same lines as in the previous years, one centre each week being visited by the Corporation's (Maternity and Child Welfare) Assistant Medical Officer. The number of new babies seen at these centres, 152, when added to the 225 new cases seen at the Municipal Centre, makes a total of 377 fresh children whom the Assistant Medical Officer has seen during 1927. This number comprises very little more than one-third of the total number of births during the same period, however, and it would be more satisfactory if a larger proportion were brought to the centres, either voluntary or municipal, as the advice given, especially regarding feeding in the early stages, might effect a further appreciable reduction in the infantile death-rate.

The following is a general summary of the work of the centres :--

Number of sessions held

... ... 168

Attendances of	children-				
First atten				152	
Subsequen				101-	
oubbequeu	e unonnum				
Aged 0-1 yea	ır			1,246	
Aged 1-5 yea				3,223	
			Total		4,469
Attendances of	mothers-				
First atten	dances			113	
Subsequen		ces		3,463	
			Total		3,576
Classes and add	dresses—				
Mothercraf	t			75	
Hygiene				48	
Cooking				2	
Sewing				1	
			Total		126
	HEALTH V	ISITOR.			
Total number of hor	mes visited				3,446
Primary visits to ch					413
Re-visits-					
0—1 year				1,392	
1-2 years				891	
2-3 years				886	
3-4 years		/		842	
4-5 years				864	
					4,875
Total number of vis	sits to chil	dren			5,288
Visits to expectant					139
Number of attenda		bies'	Welcon	1es	107

Free Provision of Milk by the Corporation.

During the year 3,814 gallons of milk were supplied free of cost to 234 families for the purpose principally of assisting the feeding of infants, and in a few instances to nursing mothers, in each instance only after careful investigation into the circumstances of the family.

Still-births.

The number of still-births notified was 48. 3 of which were premature. The same number of still-births occurred in 1926. As regards 8 of this number there was no doctor present at the birth, and the

following particulars concerning these 8 cases are available:-5 were full-time, and of these 1 was a case of hydramnios; 1 was an abnormal presentation; in 1 case the mother had albuminuria; and in the remaining 2 instances the cause of the still-birth could not be ascertained. Of the 40 still-births at which a doctor was present, in 11 instances the child was premature, and in 4 of these the mother had suffered from hæmorrhage, in 1 hydramnios, in 1 heart disease, and in 1 instance the child was malformed. In the 29 full-time cases in which a doctor was present, 9 were cases of malpresentation. 1 albuminuria, 1 maternal hæmorrhage, 1 contracted pelvis, 1 diabetes, 2 were instrumental cases, and 1 a hydrocephalic malformed child. In 9 cases out of these 29 no cause for the still-birth could be ascertained; and in 4 cases, in which the confinement took place in hospital and the patients resided outside the City, no information could be obtained, but 2 of these children were twins.

The bodies of 42 still-born children were given burial in the Carlisle Cemeteries.

5 of the still-births were illegitimate, giving an illegitimate still-birth rate of 79.4 per 1,000 illegitimate births.

Table showing (certain	particulars	regarding	the 48	still-births.
-----------------	---------	-------------	-----------	--------	---------------

	Total.	Legitimate.	Illegitimate.	Male.	Female.	Full Time.		7 Months or less.	Doctor present	No Doctor present
Maternal Conditions— Albuminuria Ante-Partum Hæmorrhage Heart Disease Diabetes Pelvic Contraction Hydramnios	$25 \\ 1 \\ 1 \\ 2$	1 5 1 1 1 2	1 	1 3 1 1 	1 2 1 2	2 1 1 1 1	3 	 1 1	1 5 1 1 1 1	1 1
Instrumental Delivery Malpresentation Hydrocephalus Spina Bifida Marked Prematurity No cause ascertained No information obtainable	2 10 1 1 7 11 4	2 9 1 5 10	 1 2 1 	1 9 2 5	1 1 1 5 6	2 10 1 	······································	 1 5 	2 9 1 4 9	 1 3 2

Infant Mortality.

The total number of deaths of infants under one year was 81; the number of deaths of residents was 71, which provides a net infant mortality rate of 68.4 per 1,000 of the registered births. If the figures are corrected by adopting the method suggested by the Registrar-General, viz., taking as the denominator the sum of 70 per cent. of the current year's births, and 30 per cent. of the births of the previous year, the infant mortality rate for 1927 was less, amounting to only 66.1. 68.4 is the lowest infant mortality rate ever recorded for the City, and is slightly lower than that for England and Wales as a whole during the same period.

The death-rate due to diarrhœa amongst infants up to one year was 7.7 per 1,000 registered births, as compared with 10.4 per 1,000 registered births in 1926, a reduction of 2.7 per 1,000. The actual number of deaths from diarrhœa was 8, as compared with 12 in 1926.

Only 1 death occurred during the "epidemic" diarrhœa period, viz., in August, 1 other death occurred in June, whilst the 6 remaining deaths from this disease were during the cooler months of the year; indeed the weather conditions in 1927 were such that summer diarrhœa is a term that could hardly be applied to any of the cases, and in this connection it will be noted from the table on page 68 that the mortality rate for bottle-fed infants is decreasing, indicating, I think, that greater care has been given in respect of the cleanliness of the milk and feeding utensils in the homes.

The number of deaths caused by prematurity, congenital defects, debility, marasmus, atelectasis, and birth injuries was 26, not much more than half the number accountable to the same causes during 1926.

Of the total infant deaths, 25 occurred before the child was one month old. This is a very welcome reduction, both actual and relative, in the number of deaths at this early period, and constitutes a saving of 14.2 per 1,000 births during the first four weeks of life, as compared with last year's figures. Even so, 6 infant deaths occurred before the child was a day old, 2 from atelectasis, 1 from spina bifida, and 3 from prematurity; and before the tenth day 11 further deaths occurred from prematurity, congenital defects, or birth injuries.

The number of deaths from bronchitis and pneumonia was 25, the rate per 1,000 being 24.1, compared with 12.9 for 1926. These respiratory diseases take by far the heaviest toll of infant life after the first month is past.

There was only 1 infantile death from a zymotic disease, viz., whooping cough.

There was one death recorded from tuberculosis during the year.

The illegitimate death-rate is again low, being as for last year just about two-thirds that of the legitimate death-rate, which shows that in Carlisle the care expended upon such children compares very favourably with the attention given to those who have been more fortunate in their birth.

The Health Visitors paid 56 visits to homes with special reference to deaths of children under one year of age.

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Total Death under One Year.	69 2		11
December.	6 :	······································	6
November.	6 1	· · · · · · · · · · · · · · · · · · ·	-1
October.			63
September.	- :		1
.tsuguA	6:	: : : : : : : : : : : : : : : : : : :	0
July.	4 :		4
June.	4	· · · · · · · · · · · · · · · · · · ·	4
Мау.	4 :		4
April.	4 :		4
March.	6	1 · · · · · · · · · · · · · · · · · · ·	6,
February .			1
January.	11	H H 40 H H H H H H H H H H H H H H H H H	11
9 Months and sdrnoM Slrebau	10		10
6 Months and under 9 Months.	15		15
5 Months and under 6 Months.	13	· : :	14
4 Weeks & under 3 Months.	2	· · · · · · · · · · · · · · · · · · ·	2
4 Weeks.	24 1	······································	25
3-4 Weeks.	°° :		60
2-3 Weeks.	4		4
1-2 Weeks.	4	· · · · · · · · · · · · · · · · · · ·	4
Under 1 Week.	13 1	· · · · · · · · · · · · · · · · · · ·	14
	::		
CAUSE OF DEATH.		Measles	Totals
	 Цладет 1 Week. 1-2 Weeks. 2-3 Weeks. 3-4 Weeks. 3 Months. 3 Months. 4 Weeks & under 3 Months. 3 Months. and 4 Weeks & under 3 Months. and 9 Months. and <	 ∴	B Corribed B CF Corribed DEATH B OF Cortified DEATH Cortified DEATH B Cortified Cortified DEATH Cortified DEATH B Cortified Cortified Cortified DEATH B Cortified Cortified Cortified Cortified B Cortified Cortified Cortified

Rates of Mortality among Infants at various ages, and from the principal causes, per 1,000 births.

						11/		CAU	SES.	-		
	ei		AGES.					t Preven	Pı	Preventable.		
Year	Nett Infant Mortality Rate.	Under 4 Weeke	4 Weeks and under 3 Months	3 Months and under 6 Months	6 Months and under 9 Months	9 Months and under 12 Months	Premature Birth	Atrophy, Debil- ity & Marasmus	Congenital Malformations and Atelectasis.	Diarrhœa and Enteritis	Bronchitis and Pneumonia	Measles and Whooping Conorb
1909	123.6	47.9	26.1	20.9	14.8	13.9	21.7	17.4	7.0	20.9	13.1	6.0
1910	109.1	41.9	19.1	21.0	15.7	11.4	28.8	13.1	5.2	12.2	14.8	5.2
1911	145.0	45.0	27.0	27.0	25.2	20.8	18.0	12.6	4.5	37.9	26.1	11.7
1912	102.4	42.0	15.8	16.6	17.5	10.5	15.8	15.8	9.6	9.6	21,9	11.3
1913	127.1	49.8	17.2	27.5	19.0	13.7	28.4	12.9	6.0	19.0	18.0	3.4
1914	122.4	48.0	25.6	21.5	15.7	11.6	19.8	15.7	5.6	20.7	18.2	5.7
1915	144.3	51.2	30.2	26.8	14.3	21.8	30.2	12.6	5.9	15.9	20.1	17.6
1916	101.5	47.1	13.6	16.3	15.4	9.1	27.2	7.3	8.1	17.2	14.5	0.0
1917	106.5	39.4	16.1	23.3	15.2	12.7	20.6	7.2	10.8	24.2	10.7	4.4
1918	126.8	38.7	17.4	26.1	30.0	14.5	22.3	10.6	4.8	14.5	25.2	21.2
1919	107.9	45.9	17.8	18.8	13.1	12.3	19.7	22.5	9.4	13.1	20.6	3.7
1920	80.0	30.2	13.4	19.3	10.5	7.0	16.1	11.9	9.1	8.6	13.3	4.2
1921	105.3	38.2	17.5	23.7	16.8	9.1	11.4	17.5	9.1	22.1	13.7	2.2
1922	81.2	35.5	11.0	14.2	7.9	12.6	17.4	8.7	6.3	5.5	15.8	2.3
1923	82.9	39.7	11.0	7.6	14.3	10.1	29.6	5.0	6.7	7.6	11.8	8.4
1924	95.0	30.5	23.3	10.7	18.8	11.7	17,0	9.9	6.3	5.4	26.9	4.4
1925	78.4	37.3	15.3	3.8	9.6	12.4	26.8	4.8	9.6	6.7	15.3	3.8
1926 1927	81·9 68.4	38·8 24.1	13·8 6.8	13·8 13.5	3·4 14.4	$ \begin{array}{c} 12.1 \\ 9.6 \end{array} $	20·7 8.7	6.0 1.9	13·8 12.5	10·4 7.7	12·9 24.1	9·4 0.9

Infant Mortality Rates for the various Wards, 1918-1927.

Year	Stanwix & Etterby	Rickergate	Aglionby	Greystone	St. Nicholas	Currock	Denton Holme	St. Cuthbert's	Caldewgate	Newtown & Belle Vue	Carlisle
1918	108.7	141.2	135.4	101.7	94.9	93.8	125.0	193.3	156.2	97.2	126.8
1919	81.6	97.8	123,3	83.9	125.0	65.4	160.6	119.0	115.1	65.8	107.9
1920	46.5	77.5	54.3	100.0	68.6	57.4	81.6	113.2	87.0	78.4	80.0
1921	23.8	150.7	91.7	174.6	86.9	62.0	105.2	62.5	158.4	56.8	105.3
1922	50.8	47.6	84.0	75.7	102.9	90.9	98.7	65.7	78.5	112.5	81.2
1923	163.2	79.6	64.0	82.6	77.5	44.9	73.0	64.1	141.0	107.6	82.9
1924	68.9	96.7	150.0	36.6	81.4	93.4	55.1	130.0	158.8	36.1	95.0
1925	85.1	70.1	66.6	90.9	78.2	37.3	101.5	59.3	97.0	92.7	78.4
1926	30.3	75.7	79.4	71.4	66.6	55.5	112.7	76.9	116.7	112.1	81.9
1927	45.4	72.0	108.1	51.2	102.0	66.6	41.6	540	79.1	61.8	68.4

Infant Mortality in Relation to the Mode of Feeding. The following table shows the deaths of infants under one year in relation to the mode of feeding:—

-			_		_	_		0	_	
	Mortality Rate per 1,000 so fed.	36.5	127.6	The second second	126.8	0.0		1,000.0	1,000-0	500.0
eaths.	.latoT	28	12		17	0	-	ũ	11	00
Number of Deaths.	.948mitiy9fll	0	0		00	0		0	0	0
Numb	Legitimate.	28	12		14	0		5	11	8
Fed.	.IntoT	766	94	2	134	0	-	10	11	16
Number so Fed.	.948aritig9llI	36	10		19	0		0	0	0
Num	.etsmitiye.	730	84		115	0		2	11	16
-	1	:			1	:		:	:	
		:			:			:	:	
	NG.	:	:		:	:		:	:	
	MODE OF FEEDING.	:	Partly Breast and partly Bottle	2	:	:		:	:	:
	DF F.	:	urtly 1			:	;	:	bed .	eding
	DE (nd pa		aped	ottle	ants-	fed	to be	re fe
	OW		east a		(1) Boat-shaped	(2) Tube bottle	d Infi	-uood	(2) Unable to be fed	nation
		st	ly Br	Bottle-	(1) B	(2) T	Debilitated Infants-	(1) Spoon-fed	(2) U	No information re feeding
		Breast	Part	Bott			Deb			Noi

Death-rates per 1,000 among infants under 1 year, classified according to the Method of Feeding, 1918-1927.

			and the second day in which	STREET, STREET	ACCOUNTS OF A DATA
	А стия] Мотъя lity Ваге.	100.6	44.3	215.7	293.8
16 years.	Total No. of Deaths.	1871	639	244	581
	Total No. of Children.	18588	14420	1131	1977
	1927	68.4	36.5	127.6	126.8
	1926	81.9	37.0	116.3	117.6
	1925	78.4	49.4	155-3	42.9
	1924	95-0	55.4	181.2	117.6
	1923	82.9	8.00	141.7	1.711
	1922	81.2	38.4	152 0	212.5
	1921	105.3	9.68	407.7	229.2
	1920	80.0	35.1	378•4 171·7	209-8
	6161	6.701	44.2	378.4	520.4 230.3
	1918	126.8	49-6	122-2	
	Mode of Feeding.	Total infant mortality rate 126.8 107.9	Mortality rate for breast- fed infants	Mortality rate for infants partly fed on breast and partly on bottle 122:2	Mortality rate for infants fed by bottle

Year.	Rainfall in Inches.	Number of days on which rain f-ll.	Infant Mortality.
1909	33.13	162	123.6
1910	29.61	197	110.0
1911	30.20	181	145.0
1912	30.01	217	102.4
1913	27.53	194	127.1
1914	28.31	201	122.4
1915	28.28	183	144.3
1916	38.97	228	101.5
1917	29.13	176	106.5
1918	33.65	190	126.8
1919	25.21	191	107.9
1920	32.11	211	80.0
1921	20.83	205	105.3
1922	28.55	209	81.2
1923	36.53	231	82.9
1924	35.11	210	95.0
1925	32.17	189	78.4
1926	34.70	201	81.9
1927	37.38	204	68.4

Infant Mortality and Rainfall.

Illegitimacy.

The number of illegitimate births registered was 63, or 60.7 per 1,000 registered births, being 1.2 per 1,000 greater than the figure for 1926. The number of deaths amongst these children was 3, or 47.6 per 1,000 illegitimate births. The deaths of legitimate children numbered 68, or 69.8 per 1,000 legitimate births. The Health Visitors paid 82 visits to children nursed or maintained by persons other than the parents.

Puerperal Fever and Puerperal Pyrexia.

10 notifications relating to puerperal pyrexia and 1 relating to puerperal fever were received, and 3 of these patients died. In one fatal case the child was hydrocephalic, and the labour long and delivery effected after craniotomy; in another case there was some hæmorrhage before delivery; while in the third fatal case in which the patient survived for one month, the only abnormality which could be ascertained was a very small perineal tear. The 8 non-fatal cases appear to have been due to the following conditions:—1 influenzal pneumonia, 1 phlegmasia, 1 abortion, 1 instrumental labour with torn perineum, 1 case of malpresentation, and 3 other cases very slight in character, the cause being unknown. 1 case was treated in the Cumberland Infirmary, and 1 in Fusehill Institution Hospital.

Ophthalmia Neonatorum.

6 cases of ophthalmia neonatorum were notified by medical practitioners. The discharge was purulent in 5 instances, and in the remaining instance the child was found to have swelling and catarrh of the eyelids by the Health Visitor during her first visit, a mild case which developed late and cleared up quickly.

In 4 instances both eyes were affected, and in the remaining 2 cases only one eye was affected.

All of these children survived, and there was no permanent damage to the eyes in any instance.

In connection with these cases, the Health Visitors of the Corporation paid 23 special visits to affected babies in order to ensure arrangements for appropriate treatment.

In 1 case the child was referred to a specialist for treatment, and in 1 other instance the child was treated daily by the Nurses of the District Nursing Association under the direction of the doctor in attendance, while in the remaining 4 instances, which showed only slight symptoms, treatment was received at home under the direction of the medical practitioner in attendance.

CASES.								
Noti- fied.		In Hos- pital.	Vision un- impaired	Vision Total impaired Blind- ness.		Deaths during treat- ment.	Remarks.	
6	6	Nil.	6	Nil.	Nil.	Nil.		

Infectious Diseases.

The Health Visitors paid 1,115 visits to cases of zymotic diseases, in addition to their visits to children suffering from gastro-enteritis, ophthalmia neonatorum, and pneumonia, and the cases of puerperal fever and puerperal pyrexia, the number of visits in this connection being nearly less than half those during 1926.

Poliomyelitis.

No notification relating to poliomyelitis was received during the year.

Deaths among Children aged 1-5 years.

34 deaths occurred among children aged 1-5 years from causes detailed hereunder :---

Diphtheria		Q		2
Asthma				1
Bronchitis				1
Pneumonia and	d Broncho-pi	neumonia	/	15
Pulmonary Tu	berculosis			1
Abdominal Tu	berculosis			1
Tuberculous M	eningitis			1
Gastro-enteritis	s			1
Meningitis				1
Valvular Disea	ase of Heart			1
Appendicitis				1
Intussusception	1			1
Chickenpox				1
Congenital Ma	lformation			1
Other Diseases				5

34

As was also the case regarding deaths of children under one year old, the death-rate from respiratory diseases was very high during 1927, and the death-rate from zymotic diseases was very low.

HYCIENE OF PLACES OF PUBLIC ENTERTAINMENT.

The visits made in this connection will be found on pages 80 and 86.

REPORT OF THE VETERINARY INSPECTOR.

During the year 144 newly-purchased cows were examined in the byres of the City, amongst which the following conditions were found :---

mg conditions		0
Enlarged Udder	 	 2
Indurated Udder	 	 2
Septicæmia	 	 2
Dullness of Lungs	 	 1
Septic Mastitis	 	 1
		8

All 8 animals were returned to the sellers.

During the year a total of 3,198 examinations of milk cows were made in order to ascertain the presence of disease likely to affect the milk supply, in the course of which 18 ailing animals were discovered, the conditions from which they were suffering being as follows:—

Septicæmia		 	6
Gastric Deranger	nent	 	3
Milk Fever		 	2
Paralysis		 	2
Abscess in Throa	t	 	1
Septic Mastitis		 	1
Acute Mastitis		 	1
Acute Rheumatis	sm	 	1
Chill		 	1
			-
			18

4 of these animals died.

72,062 bovine animals exposed for sale at the Sands Cattle Market and the Auction Marts were examined.

123,326 sheep and 19,439 pigs were also examined at the Auction Marts.

Notice was received from the City Police of the death of a bullock in peculiar circumstances. I examined the dead animal and took samples of blood for microscopical examination, which gave negative results for Anthrax Bacilli. Notice was also received of the death of a pig in peculiar circumstances. I made a post-mortem examination and found the cause of death to be acute pulmonary tuberculosis.

I examined a fat bullock which had dropped down dead on Scotland Road. The animal was removed to Miller's Knackery, where I made a post-mortem examination, and found the cause of death to be cerebral hæmorrhage.

On Friday, the 6th May, I was requested by the City Police to examine 4 cows at the L.M. & S. Cattle Dock, Denton Holme, which I found in an advanced condition of disease and suffering from tubercular emaciation. I discovered among the same consignment 8 other bovine animals also suffering from extensive disease. All 12 animals were slaughtered at the Public Slaughter-house, and were found to be affected with tuberculosis. In 9 instances the disease was in a very advanced condition. Proceedings were taken against the owner and his agent, each defendant being fined £14 and costs, the latter amounting to £61 12s. 3d.

At the request of the Chief Constable I examined 210 sheep which had been in contact with others affected with scab. I found them all to be free from disease.

Notice was received that a cow had died suddenly in one of the City byres. Miscroscopical examination of the blood gave negative results for anthrax bacilli.

Foot and Mouth Disease Order, 1927, No. 5.

On the 30th December the Ministry of Agriculture and Fisheries declared Cumberland and the adjoining counties to be a controlled area under the above Order. This Order, which remained in force until the 19th January, prohibited the sale of and prevented the movement of cattle, sheep, and swine, except under licence.

Tuberculosis Order, 1925.

11 cows have been dealt with under the above Order.

At the request of the Medical Officer of Health and Chief Sanitary Inspector I made post-mortem examinations at the Public Slaughter-houses on 2 carcases of beef, which 1 certified to be unfit for human food.

Chief Inspector's Annual Report.

To the Chairman and Members of the Health Committee.

Ladies and Gentlemen,

I have the honour to submit my Annual Report upon the work of the Sanitary Inspectors during the year 1927.

HOUSING.

The number of houses inspected under and for the purposes of the Housing Act was 95. This figure includes 80 houses in King Street and the houses situated in the courts of that street.

The inspection of the King Street houses, which includes both sides of the street, shows that the 80 houses were occupied by 355 people, an average of 4.43 per house, or 1.44 per room, the density figure for the houses themselves being 72 to the acre.

22 two-roomed houses

35 three-roomed houses

19 four-roomed houses

3 five-roomed houses

1 six-roomed house

80

Following upon this inspection 109 notices were served under the provisions of Section 3 of the Housing Act, 1925, and 4 notices were also served under the provisions of Section 36 of the Public Health Act, 1875.

The remaining 15 inspections included 5 houses at South Henry Street, 4 at Scotland Road, and 6 at Blue Bell Lane, Rickergate. The works at the houses in South Henry Street were carried out by the owner without delay, and at Scotland Road notices under the Public Health Acts were served and the works executed. In connection with the block of 6 very insanitary dwellings in Blue Bell Lane, Rickergate, Closing Orders were served upon the owners, who demolished the property. 4 houses in Byron Street were closed by the owner for the purpose of providing garage extensions. 1 house in Scott Street and 1 in Burns Street were also closed by the owners and used for extension of business premises. 4 houses in Dudson's Court, Rickergate, were also closed.

10 houses were demolished by the Corporation in Blackfriars Street in connection with a street improvement scheme.

NUISANCES AND DRAINACE.

The number of nuisances investigated during the year was 663, of which 80 were in respect of complaints received, the remainder coming to the knowledge of the Inspectors during their visits.

283 notices were served, and at the end of the year 7 matters were still on the books.

The number of new drains laid was 115, and 8 were repaired under the supervision of your Inspectors. The number of drains tested was 109.

A total of 938 inspections was made.

CONVERSION TO WATER CARRIACE SYSTEM.

As a result of action taken new water-closets were erected and middens abolished at Hassell Street, Thorney Flatt, and Scotland Road. The number of new water-closets erected in substitution for the dry system was 22.

VAN DWELLINGS.

Vans congregated at the Sands received frequent visits, more particularly at Fair times. Apart from the misuse of the adjacent ground by the occupiers, no serious fault was found.

COMMON LODGING-HOUSES.

There is no registered common lodging-house in the City. There is, however, in existence a well-appointed lodging-house where men only are received, which is owned and controlled by the Corporation and known as Lowther House.

STABLE PREMISES.

Certain stable premises at Dalston Road were improved during the year by the paving of the yard and the erection of a manure midden at a satisfactory distance from dwelling-houses.

There were 187 inspections to stable premises, the number of stables being approximately 120. A number of notices to remove accumulations of stable manure were served with satisfactory results.

FACTORIES AND WORKSHOPS.

The entries in the Register of Factories and Workshops show a total of 279 workshops, including 17 "domestic" workshops and 74 bakehouses (3 of which are underground). The factories number approximately 90. A total of 611 visits were paid to these premises during the year.

3 bakehouses have been considerably improved structurally, and in 1 instance a very desirable addition has been made, viz., the provision of washing and dressing accommodation.

9 notices were received from H.M. Inspector of Factories relating to nuisances remediable under the Public Health Acts. These nuisances were remedied and the Factory Inspector notified of the action taken by this Authority.

New premises have been erected for use in connection with the preparation of made-up meat goods, and in another instance the premises have been improved. In 1 instance where the premises were very unsatisfactory for this purpose they were closed.

The laundry connected with one of the large hotels was much improved by its removal to new premises and the installation of modern machinery.

SMOKE NUISANCES.

No serious complaint was made respecting smoke nuisances from factory chimneys, with the exception of the recurring nuisance at Kingmoor engine sheds. Two letters were addressed to the L.M. & S. Railway Co., Glasgow, concerning this nuisance, but it is still, more or less, prevalent. 1 additional boiler was fixed in the premises previously mentioned, which it is hoped may have the effect of reducing the smoke annoyance from the chimney.

INSPECTION OF MEAT AND OTHER FOODS,

The amount of meat at the Public Slaughter-houses and elsewhere declared to be unfit for human food was 26 tons 12 cwts. 3 qrs. 21 lbs. In addition certain tinned meat was surrendered as unfit for food.

Magistrate's Orders were secured in order to condemn a small portion of the meat, but no legal proceedings were instituted.

SLAUGHTER-HOUSES.

The only private slaughter-houses in the City, three in number, are licensed, in two cases for the special purpose of slaughtering sheep for the London and other markets, and in the other instance for the slaughter of pigs at a bacon factory.

The Public Slaughter-houses, owned by the Local Authority, and under the control of the Public Health Department, have been kept satisfactorily. A table showing the number and nature of the animals killed is given on page 82.

623 inspections were made to these slaughter-houses.

DAIRIES, COWSHEDS, AND MILKSHOPS.

There are 18 registered producers of milk in the City, and 32 cowsheds are in use. The visits to cow-sheds numbered 192.

There are 64 purveyors of milk on the register, 30 of whom reside in the City, and in addition there are 16 milkshops.

1 cowshed was improved by re-roofing, the provision of new drains, and the paving of the farmyard. In addition to 91 routine inspections, all the cowsheds were specially inspected for the purposes of the Milk and Dairies Order, 1926, and defects recorded with a view of any necessary action being taken, and all the places of production have since been seen by the members of the Public Health Committee.

FRIED FISH AND POTATO SHOPS.

The number of shops of this class remains the same, 34, and we have received no complaint respecting the conduct of the trade. 277 inspections were made.

ICE CREAM SHOPS.

The summer of 1927 was not conducive to extensive trade in ice-cream, but 35 visits were paid to the premises of the 18 retailers, and the conditions existing were considered to be satisfactory in each instance.

FOOD AND DRUGS ACTS.

Full particulars of the nature of the 172 samples taken and the results of the analyses will be found tabulated on page 81.

No legal proceedings were considered necessary in connection with 10 samples which were found to be adulterated, but the vendors were cautioned.

OFFENSIVE TRADES.

The number and description of the offensive trades or offensive businesses is reduced from 5 to 3, viz., 1 tripe boiler, 1 gut scraper, and 1 fellmonger.

Premises are licensed in one instance as a depot for the reception of hides, etc., under the Public Health Acts Amendment Act, 1907.

Premises used as a tripery in Devonshire Walk were greatly improved as a result of alterations carried out, which included raising of the roof, rendering of walls, resetting of boilers, and the heightening of a chimney.

URINALS.

The public urinals in the City, 20 in number, including the underground lavatories, are cleansed under the supervision of this Department. During the year 2 urinals were demolished and re-built.

REFUSE REMOVAL.

The removal of house and trade refuse has been carried on as in previous years, *i.e.*, trade refuse from the central district daily, and other districts twice or thrice weekly, according to requirements of the district. The whole of the refuse is disposed of by tipping at various tips.

During the year 22,100 loads of refuse were disposed of and 495 loads of garbage from the Slaughter-houses were also tipped.

Two new S.D. Freighters were purchased early in the year and the old one re-conditioned, making a fleet of 3. These Freighters continue to give very satisfactory service.

DEPOT.

In connection with the work of refuse removal and scavenging, there are 13 horses kept at the Depot, compared with 20 in 1926.

During the year 1 horse was bought, 1 died, and 6 others were sold.

The 3 Freighters are also garaged at the Depot.

SHOPS ACTS.

In connection with the administration of these Acts 857 day and evening inspections were made. No legal proceedings were taken, but verbal cautions, respecting small breaches of the Act, were given in a few instances.

INFECTIOUS DISEASE AND DISINFECTION.

165 cases of infectious disease were investigated during the year, and 93 of these were removed to Hospital. The number and description of articles of bed clothing, etc., disinfected are given on page 82.

RAT REPRESSION.

In consequence of complaints respecting rats on premises, 27 visits were made, and in some instances the drains tested and advice given.

1858 rats were received at the Depot during the year, for which 2d. per head was paid.

HYCIENE OF PLACES OF PUBLIC ENTERTAINMENT.

Frequent inspections were made to Picture Halls, particularly with regard to the maintenance of ventilation and the sanitation.

No complaint was received respecting these places, but the attention of the management of one of the Picture Houses had to be drawn to the failure to properly ventilate and admit sunlight to the Picture House during the morning.

DISEASED AND UNSOUND FOOD.

The following table shows the amount of food seized or surrendered as being unfit for human consumption:-

Nature of Food Condemned.						Quant	ity.	
					Tons.	Cwts.	Qrs.	Lbs.
Beef .					23	6	0	21
Mutton					1	9	3	4
Pork					1	4 .	4	20
Veal					0	11	3	4
			Total		26	12	3	21
Tinned Meats						12 lbs		
Poultry						70 .,		

SALE OF FOOD AND DRUCS ACTS.

Table showing articles purchased during the year, with results of analyses and remarks as to action taken thereon.

				The second se	
Article.	No. of Samples.	No. found to be Genuine.	Number Adulter- ated.	Extent and Form of Adulteration.	Remarks.
Milk	60	54	6	a. Milk fat 3% below limit b. Milk fat 6% below limit	
		ABTH	DUA.I	c. Milk fat 3% below limit d. Milk fat 16% below limit e. Milk fat 10.67% below limit f. Non-fatty solids 4% below limit	All Vendors cautioned.
Butter	21	21		TYAN LINA	
Cream	4	3	1	Contained .066%	Vendor cautioned
Coffee	11	11		Borie Acid	re labelling.
Olive Oil	1	1			a nation
Minerals	4	4	T	DAB / BABAN	
Jams	9	9			100
Pepper	9	9			7001
Cones	1	1		free grand	al a margin a margin a
Sausages Bi-carb.	13	12	1	Contained '12% Borie Acid	Vendor cautioned.
Soda Custard	4	4			
Powder	8	8			
Lard	16	16			U.S. S. Star
Ginger Cordial	3	3			1
Orange Cordial	1	1		a second of	
Whisky	6	4	2	a 36.14° Underproof	Vendors cautioned.
Sausage Pre ser vative	1	1		b 37·40° Underproof) cautioneu.
No. of Samples	172			The second	
No. Genuine		162			/
No. Adulter- ated			10	Indiana II email	

1924 4,106 14,385 436 5,896 24,823 1925 4,343 13,814 372 5,775 24,40 1926 4,478 14,889 285 4,712 24,36 1927 4,454 16,984 193 5,548 27,17 L.M. & S. RAILWAY SLAUCHTER-HOUSE. 1923 26,121 26,12 1924 39,427 39,427 1925 48,279 48,27 1926 46,745 46,74 1927 69,939 69,93 L. & N.E. RAILWAY SLAUCHTER-HOUSE. 9,897 39,897 1925 46,811 64,81 1924 64,811 64,81 1925 79,906 72,23 1926 338 33 1927 338	The fo	llowing T	ables give	the num	nber of	animals
Year. Beasts. Sheep and Lambs. Calves. Pigs. Total. 1923 4,028 13,249 768 4,644 22,683 1924 4,106 14,385 436 5,896 24,822 1925 4,343 13,814 372 5,775 24,40 1926 4,478 14,889 285 4,712 24,36 1927 4,454 16,984 193 5,548 27,17 L.M. & S. RAILWAY SLAUCHTER-HOUSE. 1923 26,121 26,12 1924 39,427 39,427 39,421 1925 48,279 48,27 39,897 1926 46,745 64,811 64,81 1927 69,939 64,81 79,900 1926 72,232 72,233 88,807 1927	killed annu	PUE	LIC ABA	TTOIR.		
Year. Beasts. Lambs. Calves. Pigs. Total. 1923 4,028 13,249 768 4,644 22,689 1925 4,343 13,814 372 5,775 24,400 1926 4,478 14,889 285 4,712 24,366 1927 4,454 16,984 193 5,548 27,171 L.M. & S. RAILWAY SLAUCHTER-HOUSE. 1923 26,121 26,12 1923 26,121 26,12 26,12 1924 39,427 39,427 39,427 1925 48,279 48,271 69,933 L. & N.E. RAILWAY SLAUCHTER-HOUSE. 1923 69,933 64,81 1925 46,811 64,81 1925 79,906 88,807 1926 <td< td=""><td> </td><td></td><td></td><td></td><td></td><td>-000.00</td></td<>						-000.00
1924 4,106 14,385 436 5,896 24,823 1925 4,343 13,814 372 5,775 24,40 1926 4,478 14,889 285 4,712 24,36 1927 4,454 16,984 193 5,548 27,17 L.M. & S. RAILWAY SLAUCHTER-HOUSE. 1923 26,121 26,12 1924 39,427 39,427 1925 48,279 48,27 1926 46,745 69,939 1927 69,939 69,939 1924 64,811 64,81 1925 79,906 72,23 1926 72,232 72,23 1927 88,807 88,80 REFUSE REMOVAL. Number of Loads of House Refuse removed to Tips	Year.	Beasts.	Lambs.	Calves.	Pigs.	Total.
1924 4,106 14,385 436 5,896 24,82 1925 4,343 13,814 372 5,775 24,40 1926 4,478 14,889 285 4,712 24,36 1927 4,454 16,984 193 5,548 27,17 L.M. & S. RAILWAY SLAUCHTER-HOUSE. 1923 26,121 26,121 26,12 1924 39,427 39,427 39,427 1925 48,279 48,27 1926 46,745 69,939 69,93 L. & N.E. RAILWAY SLAUCHTER-HOUSE. 69,939 69,93 1923 39,897 79,90 79,90 1925 79,906 72,233 72,23 1927 88,807 88,807 88,807 Image: State of S	1923	4,028	13,249			22,689
1925 4,343 13,814 372 5,775 24,40 1926 4,478 14,889 285 4,712 24,36 1927 4,454 16,984 193 5,548 27,17 L.M. & S. RAILWAY SLAUCHTER-HOUSE. 1923 26,121 26,121 1924 39,427 39,42 1925 48,279 48,27 1926 46,745 46,74 1927 69,939 69,93 L. & N.E. RAILWAY SLAUCHTER-HOUSE. 1923 39,897 1924 64,811 64,81 1925 79,906 79,906 1926 72,232 72,233 1927 248 24 1927 248 24 1927 23.8 33 of Slaughter-house Garbage 4 <td></td> <td></td> <td>14,385</td> <td>436</td> <td>5,896</td> <td>24,823</td>			14,385	436	5,896	24,823
1926 4,478 14,889 285 4,712 24,36 1927 4,454 16,984 193 5,548 27,173 L.M. & S. RAILWAY SLAUCHTER-HOUSE. 1923 26,121 239,427 29,427 1925 48,279 48,279 39,427 1926 46,745 46,74 1927 69,939 69,939 2. & N.E. RAILWAY SLAUCHTER-HOUSE. 39,897 1923 39,897 39,897 1924 64,811 64,811 1925 79,906 79,906 1926 72,232 72,23 1927 88,807 88,807 1926 72,232 72,23 1927 88,807 88,807 Leef USE REMOVAL. Number of Loads of House Refuse removed to Tips 1926 1927 248 24 1927 1926 1926 22,1 1927 1928 22,1 22,1 1926 1927 22,2 22,1 1927 1926 1927	1925		13,814	372		24,404
1927 4,454 16,984 193 5,548 27,17 L.M. & S. RAILWAY SLAUCHTER-HOUSE. 1923 26,121 26,12 1924 39,427 39,427 1925 48,279 48,27 1926 46,745 46,74 1927 69,939 69,939 2. & N.E. RAILWAY SLAUCHTER-HOUSE. 1923 39,897 1923 39,897 1923 1924 1925 1926 1927 <			14,889	285	4,712	24,364
1923 26,121 26,12 1924 39,427 39,427 1925 48,279 48,27 1926 46,745 46,74 1927 69,939 69,93 2. & N.E. RAILWAY SLAUCHTER-HOUSE. 64,81 1923 39,897 1924 64,811 64,81 1925 79,906 79,90 1926 72,232 72,23 1927 248 24 1927 248 24 1927 248 24 1927 248 24 1927 22,1 , Loads of Slaughter-house Garbage 4 4 1927 22,1 <td< td=""><td>1927</td><td>4,454</td><td>16,984</td><td>193</td><td>5,548</td><td>27,179</td></td<>	1927	4,454	16,984	193	5,548	27,179
1924 $39,427$ $39,427$ 1925 $48,279$ $48,271$ 1926 $46,745$ $46,74$ 1927 $69,939$ $69,939$ L. & N.E. RAILWAY SLAUGHTER-HOUSE. 1923 $69,939$ $69,939$ 1924 $64,811$ $64,811$ 1925 $79,906$ $79,900$ 1926 $72,232$ $72,233$ 1927 $88,807$ $88,807$ HARRABY BACON FACTORY. 1926 248 24 1927 338 33 REFUSE REMOVAL. Number of Loads of House Refuse removed to Tips $22,1$ Loads of Slaughter-house Garbage 4 4 $22,1$ $$ Loads of Inf	L.M. 4	S. RAIL	WAY SL	AUGHTI	R-HOL	SE.
1924 $39,427$ $39,427$ 1925 $48,279$ $48,271$ 1926 $46,745$ $46,74$ 1927 $69,939$ $69,93$ L. & N.E. RAILWAY SLAUGHTER-HOUSE. 1923 $39,897$ $39,897$ 1924 $64,811$ $64,81$ 1925 $79,906$ $72,233$ 1926 $72,232$ $72,233$ 1927 $88,807$ $88,807$ HARRABY BACON FACTORY. 1926 248 24 1927 338 33 REFUSE REMOVAL. Number of Loads of House Refuse removed to Tips $22,1$ 4 $22,1$ </td <td>1923</td> <td></td> <td>26,121</td> <td></td> <td></td> <td>26,121</td>	1923		26,121			26,121
1925 $48,279$ $48,271$ 1926 $46,745$ $46,74$ 1927 $69,939$ $69,939$ 1 923 $39,897$ $39,897$ 1924 $64,811$ $64,811$ 1925 $79,906$ $79,90$ 1926 $72,232$ $72,233$ 1927 $88,807$ $88,807$ 1926 248 24 1927 $88,807$ $88,807$ MARRABY BACON FACTORY. 1926 248 24 1927 338 33 REFUSE REMOVAL. Number of Loads of House Refuse removed to $22,11$,, Loads of Slaughter-house Garbage 4 ,, Loads of Infectious Disease Investigated ,, Cases of Infectious Disease remove						39,427
1926 $46,745$ $46,745$ 1927 $69,939$ $69,939$ 1923 $39,897$ $39,897$ 1923 $64,811$ $64,811$ 1925 $79,906$ $79,90$ 1926 $72,232$ $72,233$ 1927 $88,807$ $88,807$ HARRABY BACON FACTORY. 1926 248 24 1927 338 33 REFUSE REMOVAL. Number of Loads of House Refuse removed to Tips $22,1$ Loads of Slaughter-house Garbage 4 DISINFECTION. Number of cases of Infectious Disease Investigated						48,279
1021 2. & N.E. RAILWAY SLAUGHTER-HOUSE. 1923 39,897 39,89 1924 64,811 64,81 1925 79,906 79,90 1926 72,232 72,233 1927 88,807 88,80 HARRABY BACON FACTORY. 1926 248 24 1927 338 33 REFUSE REMOVAL. Number of Loads of House Refuse removed to Tips 22,1 338 33 DISINFECTION. Number of cases of Infectious Diseases Investigated 1 Cases of Infectious Disease removed	1926		46,745			46,745
1923 39,897 39,897 1924 64,811 64,811 1925 79,906 79,90 1926 72,232 72,23 1927 88,807 88,80 HARRABY BACON FACTORY. 1926 248 24 1927 338 33 REFUSE REMOVAL. Number of Loads of House Refuse removed to Tips 22,1 ,, Loads of Slaughter-house Garbage 4 DISINFECTION. Number of cases of Infectious Disease Investigated 1 ,, Cases of Infectious Disease removed ,, Mattresses and Beds Disinfected ,, Bolsters and Covers ,, Blankets ,, Blankets	1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		69,939			69,939
1924 $64,811$ $64,811$ 1925 $79,906$ $79,90$ 1926 $72,232$ $72,233$ 1927 $88,807$ $88,807$ HARRABY BACON FACTORY. 1926 248 24 1927 338 33 REFUSE REMOVAL. Number of Loads of House Refuse removed to Tips $22,1$,, Loads of Slaughter-house Garbage 4 DISINFECTION. Number of cases of Infectious Disease Investigated ,, Cases of Infectious Disease removed ,, Mattresses and Beds Disinfected ,, Bolsters and Covers ,, Blankets ,, Miscellaneous Articles ,, Miscellaneous Articles	2. & 1	N.E. RAIL	WAY SL	AUGHTI	ER-HOL	JSE.
1925 79,906 72,232 1926 72,232 72,233 1927 88,807 72,233 1927 88,807 72,233 1927 88,807 72,233 1927 248 24 1927 338 33 REFUSE REMOVAL. Number of Loads of House Refuse removed to Tips 22,1 Loads of Slaughter-house Garbage 4 DISINFECTION. Number of cases of Infectious Diseases Investigated 1 Cases of Infectious Disease removed Mattresses and Beds Disinfected Blankets <td< td=""><td>1923</td><td></td><td>39,897</td><td>1</td><td></td><td>39,897</td></td<>	1923		39,897	1		39,897
1926 72,232 72,233 1927 88,807 88,80 HARRABY BACON FACTORY. 1926 248 24 1927 338 33 REFUSE REMOVAL. Number of Loads of House Refuse removed to Tips 22,1 ,, Loads of Slaughter-house Garbage 4 DISINFECTION. Number of cases of Infectious Diseases Investigated ,, Cases of Infectious Disease removed 1 ,, Mattresses and Beds Disinfected ,, Bolsters and Covers ,, Pillows and Covers ,, Blankets ,, Miscellaneous Articles	1924		64,811		'	64,811
192788,80788,807HARRABY BACON FACTORY.192624824192733833REFUSE REMOVAL.Number of Loads of House Refuse removed to Tips22,1,,Loads of Slaughter-house Garbage4DISINFECTION.Number of cases of Infectious Diseases Investigated1,,Cases of Infectious Disease removed to Hospital1,,Mattresses and Beds Disinfected,,Bolsters and Covers,,Blankets,,Miscellaneous Articles,,Carpets, &c., Disinfected	1925		79,906			79,906
HARRABY BACON FACTORY.192624824192733833 REFUSE REMOVAL. Number of Loads of House Refuse removed to Tips22,1,,Loads of Slaughter-house Garbage4 DISINFECTION. Number of cases of Infectious Diseases Investigated1,,Cases of Infectious Disease removed to Hospital1,,Mattresses and Beds Disinfected1,,Bolsters and Covers1,,Blankets1,,Miscellaneous Articles1,,Carpets, &c., Disinfected1	1926		72,232			72,232
1926 1927248 33824 338 REFUSE REMOVAL. Number of Loads of House Refuse removed to Tips , Loads of Slaughter-house Garbage22,1 4,,Loads of Slaughter-house Garbage4 DISINFECTION. 1Number of cases of Infectious Diseases Investigated to Hospital , Bolsters and Beds Disinfected , Bolsters and Covers , Pillows and Covers , Since State , Miscellaneous Articles , Miscellaneous Articles , Carpets, &c., Disinfected1	1927		88,807			88,807
192733833 REFUSE REMOVAL. Number of Loads of House Refuse removed to Tips22,1,,Loads of Slaughter-house Garbage4 DISINFECTION. Number of cases of Infectious Diseases Investigated1,,Cases of Infectious Disease removed to Hospital1,,Mattresses and Beds Disinfected,,Bolsters and Covers,1,,Blankets1,,Miscellaneous Articles,1,,Miscellaneous Articles1		HARRAB	Y BACON	I FACT	ORY.	
REFUSE REMOVAL. Number of Loads of House Refuse removed to Tips 22,1 ,, Loads of Slaughter-house Garbage 4 DISINFECTION. DISINFECTION. Number of cases of Infectious Diseases Investigated 1 ,, Cases of Infectious Disease removed to Hospital 1 ,, Mattresses and Beds Disinfected 1 ,, Bolsters and Covers 1 ,, Bilankets 1 ,, Miscellaneous Articles 1	1926				248	248
Number of Loads of House Refuse removed to Tips22,1,,Loads of Slaughter-house Garbage4 DISINFECTION.DISINFECTION. Number of cases of Infectious Diseases Investigated1,,Cases of Infectious Disease removed to Hospital1,,Mattresses and Beds Disinfected1,,Bolsters and Covers,,,,Pillows and Covers,,1,,Quilts,,,Mascellaneous Articles,,1	1927				338	338
Tips22,1,,Loads of Slaughter-house Garbage4DISINFECTION.Number of cases of Infectious Diseases Investigated1,,Cases of Infectious Disease removed1,,Cases of Infectious Disease removed1,,Mattresses and Beds Disinfected1,,Bolsters and Covers,1,,Billows and Covers,1,,Miscellaneous Articles,1,,Carpets, &c., Disinfected1						
,,Loads of Slaughter-house Garbage4DISINFECTION.Number of cases of Infectious Diseases Investigated1,,Cases of Infectious Disease removed1,,Cases of Infectious Disease removed1,,Mattresses and Beds Disinfected,,Bolsters and Covers,,,,Pillows and Covers,,,,Blankets,,Miscellaneous Articles,,,,Carpets, &c., Disinfected	Number of					
DISINFECTION. Number of cases of Infectious Diseases Investi- gated 1 ,, Cases of Infectious Disease removed to Hospital 1 ,, Mattresses and Beds Disinfected ,, Bolsters and Covers ,, 1 ,, Pillows and Covers ,, 1 ,, Blankets ,, 1 ,, Quilts , 1 ,, Miscellaneous Articles ,, 1 ,, Carpets, &c., Disinfected			e cu		a 1	
Number of cases of Infectious Diseases Investigated1gated1,,Cases of Infectious Disease removed1to Hospital1,,Mattresses and Beds Disinfected,,Bolsters and Covers,1,,Pillows and Covers,1,,Blankets1,,Miscellaneous Articles,1,,Carpets, &c., Disinfected1	"	Loads o	1 Slaughte	er-house	Garbage	49
gated 1 ,, Cases of Infectious Disease removed to Hospital	NT 1					
,,Cases of Infectious Disease removed to Hospital,,Mattresses and Beds Disinfected,,Bolsters and Covers ,,,,Pillows and Covers ,,,,Pillows and Covers ,,,,Blankets,,Miscellaneous Articles ,,,,Carpets, &c.,	Number of		Infectious	Diseases	Investi-	
to Hospital , Mattresses and Beds Disinfected , Bolsters and Covers ,, 1 , Pillows and Covers ,, 1 , Blankets ,, 1 , Quilts , 1 , Miscellaneous Articles ,, 1 , Carpets, &c., Disinfected						16
,,Mattresses and Beds Disinfected,,Bolsters and Covers ,,,,Pillows and Covers ,,,,Blankets,,,,Blankets,,,,Miscellaneous Articles ,,14,,Carpets, &c., Disinfected	23					
,, Bolsters and Covers ,, 1 ,, Pillows and Covers ,, 1 ,, Blankets , 1 ,, Quilts , 1 ,, Miscellaneous Articles , 1 ,, Carpets, &c., Disinfected 1						93
,, Pillows and Covers ,, 1 ,, Blankets ,, 1 ,, Quilts ,, 1 ,, Miscellaneous Articles ,, 1 ,, Carpets, &c., Disinfected 1	,,				ected	4
,, Pillows and Covers ,, 1 ,, Blankets 1 1 ,, Quilts 1 1 ,, Miscellaneous Articles 1 1 ,, Carpets, &c., Disinfected 1	,,	Bolsters	and Covers	s		2
,,Blankets,,1,,Quilts,,1,,Miscellaneous Articles,,1,,Carpets, &c., Disinfected1	,,					14
,, Quilts ,, Miscellaneous Articles ,, Carpets, &c., Disinfected	,,			,,		16
,, Miscellaneous Articles ,, 1 ,, Carpets, &c., Disinfected	,,	Quilts				2
,, Carpets, &c., Disinfected			neous Artic	los		14
Booms Disinfacted						1
,, noons Distilected 2	,,	Rooms I	Disinfected			24

FACTORIES, WORKSHOPS, WORKPLACES, AND HOMEWORK.

1Inspection	of Factories,	Workshops,	&	Workplaces.
-------------	---------------	------------	---	-------------

	Number of			
Premises.	Inspections.	Written Notices.	Prosecutions	
FAOTORIBS	21	4	Nil	
WORKPLACES (Other than Outworkers' premises included in Part 3 of this Report)	} 590	2	Nil	
TOTAL	611	6	Nil	

3.-Home Work.

	OUTWORKERS' LISTS, SECTION 107.							
	Lists received from Employers.							
NATURE OF WORK.	Sending	twice in t	he year.	Sendin	Sending once in the year.			
		Outwo	rkers.		Outwo	Outworkers.		
	Lists.	Con- tractors.	Work- men.	Lists.	Con- tractors.	Work- men.		
Wearing apparel-	N. I.							
Making, &c Cleaning and	2			1				
Washing			···					
. Total	2			1				

	N	Number of Defects.				
Particulars.	Found.	Remedied.	Referred to H.M. Inspector.	Number of Pro- secutions.		
Nuisances under the Public Health						
Acts :	17	17	· ····			
Want of ventilation	1	1				
Overcrowding						
Want of drainage of floors						
Other nuisances	±	4				
Sanitary accommodation :						
Unsuitable or defective	4	4				
Not separate for sexes						
Offences under the Factory and Workshop Acts : Illegal occupation of under- ground bakehouse (s. 101)						
Breach of special sanitary re- quirements for bakehouses (ss. 97 to 100)						
Other offences (Excluding offences relating to outwork, which are in-						
cluded in Part 3 of this report)						
Total	26	26	Nil	Ni		

2.—Defects found in Factories, Workshops, and Workplaces.

Workshops on the Register ((s. 131) at the end of the year	Number.
Important classes of work- shops, such as workshop bakehouses, may be enu- merated here.	Workshops Domestic Workshops Bakehouses	134 71 74
Total number of	of workshops on Register	279

85 4.—Registered Workshops.

v

5.—Other Matters.

Class.	Number.		
Matters notified to H.M. Inspector of Factories :- Failure to affix Abstract of the Factory and Work-			
shop Acts (s. 133, 1901) Action taken in matters referred by H.M. Inspector as remediable under the Public Health Acts, but			
not under the Factory & Workshop Acts (s. 5,1901) : Notified by H.M. Inspector			
Reports (of action taken) sent to H.M.	3,		
Inspector	9		
Underground Bakehouses (s. 101) — In use at the end of the year	3		

6.-Classified List of Workshops.

Business,		No.	Business.		
	-		WEINING ROUTE THE SECOND	AP IX	
Millinery		17	Fishing Tackle	2	
Tailoring		30	Stocking Knitting	1	
Sugar Boiling		2	Scale Repairers	2	
Cycle Repairing		9	Picture Framing	2	
Dressmaking		18	Photography	4	
Bakehouses		74	Tripe Boiling	1	
Boot Repairing, Cloggers		43	Chocolate Making	1	
Saddlery		5	Marine Dealers	3	
Meat Preparation		28	Gut Scraper	1	
Watch Makers, Jewellers		16	Fellmonger	1	
Upholstering		4	Sewing Machine Repairer	1	
Coopers		2	Engraver	1	
Basket Making		2	Wagon Sheet Repairer	1	
Umbrella Repairing		1	Firewood Dealers	2	
Taxidermist		1	and the second second second second	-	
J'insmiths		2	a second s	-	
Hand-weavers		2	Total	279	

DISTRICT. Nature of Inspections.			Number of visits paid.	
HOUSES-				
Houses inspected under Housing	Acts		819	
Houses inspected in accordance with	th the H	Iousing		
(Consolidated) Regulations,			95	
Houses inspected under the I	Public	Health		
Act, 1875			2913	
Visits re Infectious Diseases			534	
Drains Inspected			938	
,, Tested			109	
Common Yards, Courts, & Alleys	inspect	ed	7269	
Temporary or movable dwellings i	nspecte	be	174	
Public Halls, Schools, etc			21	
Complaints investigated			80	
Nuisances investigated			663	
RADE PREMISES_				
Bakehouses			176	
Laundries			3	
Cowsheds			192	
Milkshops			91	
Ice-Cream Shops			35	
Fried Fish Shops			277	
Meat Preparation Premises			169	
Slaughter-houses			623	
Markets			169	
Factories			21	
Workshops and Workplaces			245	
Stables			187	
Shops Act Inspections			857	
Chimneys observed (smoke nuisand	es)		17	
neruse Tips			94	
Water samples taken for analysis			8	
Visits re Rats and Mice Destruction	n Orde	er	27	
miscellaneous inspections			1735	
Urinals			21	
otices served to abate Nuisances				
,, complied with	••		283	
" complied with			276	

SUMMARY OF SANITARY WORK PERFORMED IN CONNECTION WITH INSPECTION OF DISTRICT.

HOUSING WORKS DONE BY NOTICES UNDER THE PUBLIC HEALTH ACTS.

Walls, Damp and Defective, Rem	edied	 12
Roofs Repaired		 69
Yards Paved and Repaired		 10
Ceilings Repaired		 5
Firegrates and Ovens Repaired		 15
Chimney Stacks Repaired		 9
Floors Repaired		 3
Defective Outbuildings Repaired		 14
Slopsinks Provided		 3
Houses provided with new W.C.s		 21

Housing Works done without Notice.

Houses provided with New Damp Courses					
do. do.	1	New Roofs		×	4
do. do	. 1	New Floors			2
Houses cement rende	red o	or plastered			12
House provided with	new	W.C.s.			1
Yards Concreted					20
New Washhouse					1
Walls Repaired					4
Ceilings Repaired					5
Stairs Repaired					4
Floors Repaired					5
Windows Repaired					5

I have the honour to be,

Your obedient Servant,

C. W. HILL,

Chief Inspector.

