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Contributors

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MEDICAL REPORT
ON THE
SANITARY CONDITION
OF
CARLISLE

DURING THE YEAR 1895,

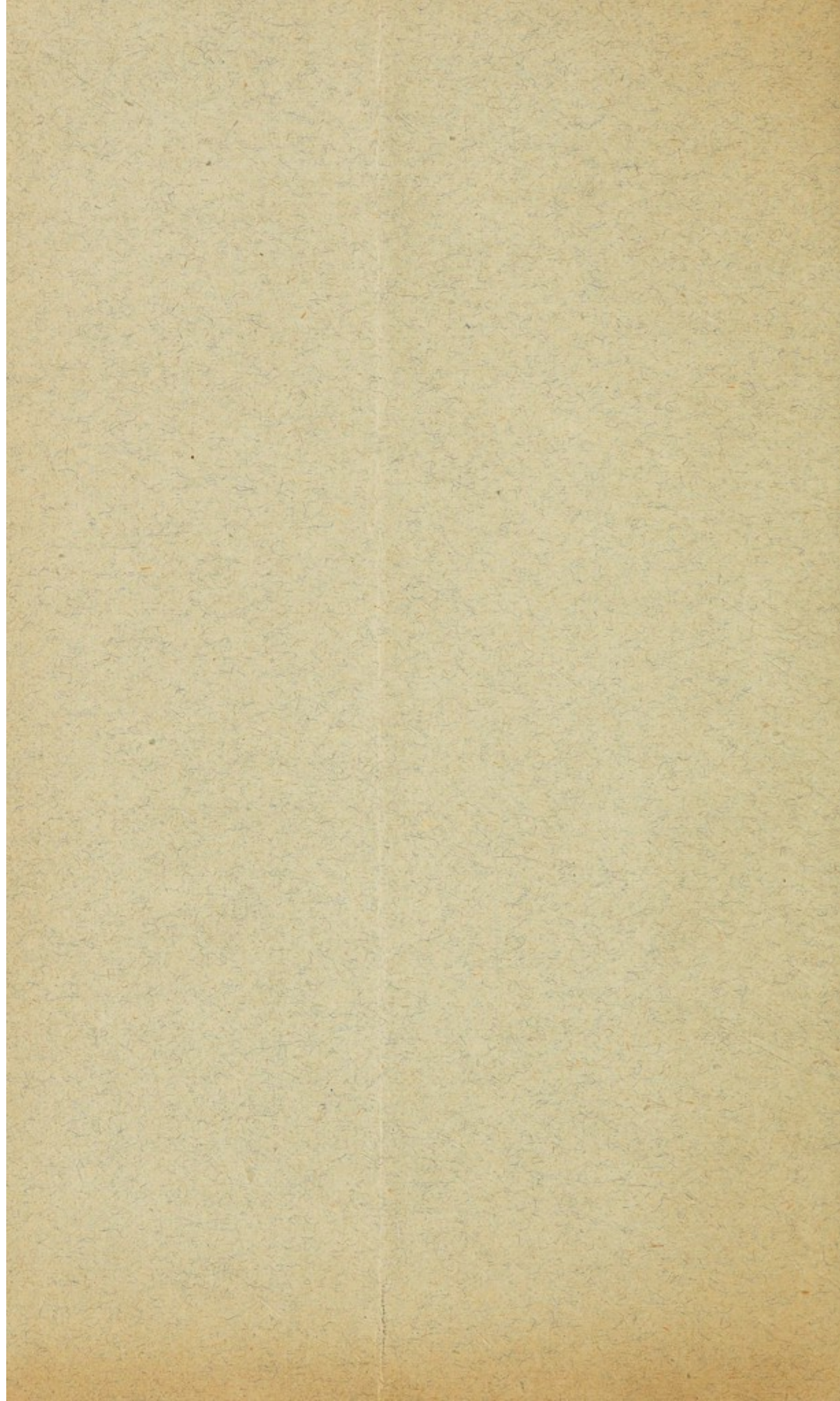
BY

WILLIAM BROWN, F.R.C.S.,

MEDICAL OFFICER OF HEALTH.

CARLISLE :
CHAS. THURNAM AND SONS, STEAM PRINTERS, ENGLISH-ST.

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CARLISLE URBAN DISTRICT COUNCIL.

Annual Report of the Medical Officer of Health.

TO THE CARLISLE URBAN DISTRICT COUNCIL.

Gentlemen,

I have the honour of submitting to you my Annual Report on the Health of Carlisle during the year 1895, with an account of the Sanitary Work performed.

STATISTICAL SUMMARY COMPARED WITH THAT OF 1894.

	1895.	1894.
Area of District in Acres	2,029	2,029
Estimated Population at Midsummer ...	40,800	40,500
Density of Population per acre ...	20.1	19.9
Inhabited Houses (1891 census) ...	7,624	7,624
Rateable Value of District	£173,821	£169,000
Births	1,311	1,315
Birth-rate	32.1	32.4
Deaths	794	780
Death-rate	19.4	19.2
Zymotic Deaths	33	44
Zymotic Death-rate	.8	1.1
Infant Mortality	186	174
Ratio of Infant Deaths to Births per 1,000	142	133
Infectious Cases Notified	248	246
Infectious Cases Isolated at Crozier Lodge Fever Hospital	47	21

REGISTRATION SUB-DISTRICTS.

St. Mary Sub-District—Population ...	24,804	24,622
St. Cuthbert's do. do. ...	15,996	15,878

VITAL STATISTICS.

During the year the births of 1,311 children have been registered. Of these 651 were boys and 660 girls. The total gives a rate of 32.1 per 1,000 of the estimated population. Last year the birth-rate was 32.4 per 1,000 of the estimated population.

MORTAL STATISTICS.

During the year ending December 31st, 794 deaths were registered in the Carlisle Urban Sanitary District. Of these 393 were males and 401 females. The death-rate was equal

to 19.4 per 1,000 of the population estimated to the middle of the year. Last year (1894) 780 deaths were registered, the death-rate being equal to 19.2 per 1,000 of the estimated population. The following table gives the deaths of persons not belonging to the Carlisle Urban District. Making allowance for such deaths a death-rate of 18.7 is obtained.

Where Died.			Deaths of Persons not belonging to the Carlisle Urban Sanitary District.
Cumberland Infirmary	...	...	23
Fusehill Workhouse	...	...	3
Fever Hospital, Crozier Lodge	...	...	1
Home for Incurables	...	...	1
Her Majesty's Prison	...	...	1
Caledonian Railway Co.'s Yard	...	...	1
			30

Table shewing the death-rate of Carlisle from 1874 to 1895 inclusive:—

Year.	Deaths from all causes.		Deaths from Principal Zymotic Diseases.	
	No. Registered.	Rate per 1000 of Population.	No. Registered.	Rate per 1000 of Population.
1874	1055	32.6	367	11.3
1875	934	29.2	201	6.3
1876	800	25.0	100	3.0
1877	750	23.0	55	1.7
1878	828	23.5	83	2.3
1879	818	23.5	76	2.0
1880	777	22.2	106	3.0
1881	717	20.0	67	1.8
1882	852	23.6	189	5.0
1883	779	21.0	67	1.8
1884	783	21.0	38	1.0
1885	769	20.3	66	1.7
1886	745	19.4	62	1.6
1887	772	19.9	75	1.9
1888	722	18.5	59	1.5
1889	723	18.1	69	1.7
1890	792	19.5	65	1.6
1891	789	20.1	63	1.6
1892	805	20.2	55	1.3
1893	868	21.6	145	3.6
1894	780	19.2	44	1.1
1895	794	19.4	33	0.8

DEATHS FROM THE EIGHT PRINCIPAL ZYMOTIC DISEASES.

The Returns shew 33 deaths from the principal Zymotic Diseases, representing a Zymotic death-rate of 0.8 per 1,000 of the estimated population. The number registered from each Zymotic Disease being as follows :—

Small Pox	...	...	...	...	—
Measles	...	...	...	...	5
Scarlet Fever	...	...	...	..	2
Diphtheria	...	...	...	...	5
Whooping Cough	...	...	...	...	7
Typhus Fever	...	...	...	...	—
Enteric Fever	...	...	...	...	4
Diarrhœa and Dysentery	...	...	...	...	10
					—
					33
					—

It will be noticed that the deaths from Zymotic causes, viz., 33, is the lowest record for the last 21 years, and the ratio per 1,000, viz., 0.8, is extremely small for an urban population of 40,800 living in a circular area of 2,029 acres.

INFANT MORTALITY.

The deaths of 186 infants under one year of age have been registered. The ratio of infant deaths to births is 142 per 1,000, as compared with

1894	...	...	...	133
1893	...	...	...	178
1892	...	...	...	123
1891	...	...	...	137
1890	...	...	...	150
1889	...	...	...	142
1888	...	...	...	129
1887	...	...	...	141
1886	...	...	...	146
1885	...	...	...	164

SCARLET FEVER.

64 cases of Scarlet Fever have been notified, as compared with 77 cases last year. The disease was most prevalent

during the months of August and September. As to the age prevalence 19 cases were in children of from 3 to 6, and 14 in children of from 6 to 9 years old. The mortality was 3 per cent. of the cases notified.

Table shewing the number of cases of Scarlet Fever during the year 1895, arranged as to age :—

Under 1 year ...	...	...	...	2
From 1 to 2 years	...	...	...	2
„ 2 „ 3 „	...	...	...	3
„ 3 „ 4 „	...	...	...	4
„ 4 „ 5 „	...	...	...	11
„ 5 „ 6 „	...	...	...	4
„ 6 „ 7 „	...	...	...	4
„ 7 „ 8 „	...	...	...	5
„ 8 „ 9 „	...	...	...	5
„ 9 „ 10 „	...	...	...	3
„ 10 „ 11 „	...	...	...	2
„ 11 „ 12 „	...	...	...	6
„ 12 „ 13 „	...	...	...	3
„ 13 „ 14 „	...	...	...	0
„ 14 „ 15 „	...	...	...	2
„ 15 „ 16 „	...	...	...	0
„ 16 „ 17 „	...	...	...	0
„ 17 „ 18 „	...	...	...	1
„ 18 „ 19 „	...	...	...	0
„ 19 „ 20 „	...	...	...	1
Over 20 years ...	...	...	...	6
Total ...				64

Number of cases of Scarlet Fever, reported each week from 1st January to 31st December, 1895 :—

From the 1st to the 5th of January	...	0
Week ending 12th	„	2
„ „ 19th	„	2
„ „ 26th	„	3
„ „ 2nd February	...	3
„ „ 9th	„	0
„ „ 16th	„	0
„ „ 23rd	„	1
„ „ 2nd March	...	4
„ „ 9th	„	1

Week ending	16th	March	...	...	1
"	"	23rd	"	...	0
"	"	30th	"	...	0
"	"	6th	April	...	1
"	"	13th	"	...	0
"	"	20th	"	...	1
"	"	27th	"	...	0
"	"	4th	May	...	1
"	"	11th	"	...	0
"	"	18th	"	...	0
"	"	25th	"	...	0
"	"	1st	June	...	0
"	"	8th	"	...	1
"	"	15th	"	...	0
"	"	22nd	"	...	0
"	"	29th	"	...	0
"	"	6th	July	...	0
"	"	13th	"	...	0
"	"	20th	"	...	1
"	"	27th	"	...	0
"	"	3rd	August	...	0
"	"	10th	"	...	3
"	"	17th	"	...	1
"	"	24th	"	...	3
"	"	31st	"	...	1
"	"	7th	September	...	3
"	"	14th	"	...	1
"	"	21st	"	...	3
"	"	28th	"	...	6
"	"	5th	October	...	0
"	"	12th	...	...	4
"	"	19th	...	...	5
"	"	26th	...	...	0
"	"	2nd	November	...	1
"	"	9th	"	...	1
"	"	16th	"	...	0
"	"	23rd	"	...	0
"	"	30th	"	...	3
"	"	7th	December	...	1
"	"	14th	"	...	1
"	"	21st	"	...	4
"	"	28th	"	...	1
From the 28th to the 31st	"	"	...	...	0

MEASLES.

There have been five deaths from Measles as compared with 20 deaths last year. The mortality from the disease during the last 20 years has been as follows:—

1876	...	...	...	...	5
1877	...	...	...	...	12
1878	...	...	...	...	2
1879	..	...	...	...	22
1880	...	...	...	...	4
1881	...	...	...	...	0
1882	...	...	...	...	36
1883	...	...	...	...	11
1884	...	...	...	...	0
1885	...	...	...	...	22
1886	...	...	...	...	4
1887	...	...	...	...	16
1888	...	...	...	...	3
1889	...	...	...	...	44
1890	...	...	...	...	1
1891	...	...	...	...	22
1892	...	...	...	...	3
1893	...	...	...	...	77
1894	...	...	...	...	20
1895	...	...	...	...	5

SMALL POX.

One case of Small Pox occurred during the year. It was the case of a woman with the confluent form of the disease, who was removed from Linton Street to Crozier Lodge Hospital on March 10th. The origin of the case was at first obscure inasmuch as the patient had not been from home for many months, and there had been no notified case of Small Pox in Carlisle since the spring of the previous year. It was subsequently discovered, however, that the husband of the patient, a railway man going between Carlisle and Glasgow where Small Pox at that time prevailed, had been confined to the house owing to illness, about nine days previous to the commencement of his wife's seizure, and an examination revealed three recent Small Pox scars upon his forehead. The man was put in quarantine for a sufficient period and there was no further spread. This case exemplifies what a mild disease Small Pox may be and how easily it may be overlooked.

TYPHOID FEVER.

Twenty cases of Typhoid Fever have been notified as compared with 15 cases last year.

Tabular Statement of Cases of Typhoid Fever during the year 1895, with the insanitary conditions present, and the action taken thereon.

Date.	Locality.	Insanitary conditions present and action taken.	Result.
January...	Oyster Bar, St. Alban's Row	Water closet in cellar defective and in an unsuitable place. Removed to Crozier Lodge. House disinfected	Two cases No extension
"	Murrell Hill	Instructions given as to disinfection	One case No extension
February..	Close Street	Instructions given as to disinfection	One case No extension
"	Spencer Street	Removed to Crozier Lodge. House disinfected.	One case No extension
"	Graystone Road	Instructions given as to disinfection	One case No extension
"	Edward Street	Water closet defective. Instructions given as to disinfection	One case No extension
July.....	Fusehill Workhouse	Room disinfected	One case No extension
"	Hartington Place	Instructions given as to disinfection	One case No extension
"	St. Nicholas	Instructions given as to disinfection	One case No extension
September	Botchergate	Instructions given as to disinfection	One case No extension
October ...	Lewthwaite's Sq., Port Road	Removed to Crozier Lodge. House disinfected	One case No extension
November	South Petteril Street	Instructions given as to disinfection	One case Further extension same month
"	Prospect Terrace	Removed to Crozier Lodge. House disinfected	One case No extension
"	South Petteril Street	Instructions given as to disinfection	One case No further extension
"	Cecil Street	Removed to Crozier Lodge. House disinfected	One case No extension
"	Broad Street	Instructions given as to disinfection	One case No extension
December	Leatham Street	Instructions given as to disinfection	One case No extension
"	Old St. Nicholas	Removed to Crozier Lodge. House disinfected	One case No extension
"	Alice Court, Court Street	Removed to Crozier Lodge. House disinfected	One case No extension

ASIATIC CHOLERA.

A notification of a case of Asiatic Cholera reached the Sanitary Office on Tuesday, April 23rd. It was that of a man who had died at 39 South John Street on the previous day. The patient, a healthy and vigorous workman, had visited Newcastle-on-Tyne and Windy Nook (County Durham) on Easter Monday, April 15th, and began with choleraic symptoms on the following Thursday, April 18th. Rigorous measures of disinfection were carried out, and portions of patient's vomit and soiled linen were forwarded to the Local Government for examination. The result of the Board's examination was negative.

DIPHTHERIA.

Forty-one cases in 34 houses have occurred, as compared with 29 cases in 26 houses last year. The mortality has been about 1 in 8 of the reported cases. In five of the houses minor sanitary defects were found to exist, and in one case the house was condemned as unfit for human habitation.

Tabular Statement of Cases of Diphtheria during the year 1895, with the insanitary conditions present and the action taken thereon.

Date.	Locahty.	Insanitary conditions present and action taken.	Result.
January...	Pugin Street ...	Removed to Crozier Lodge. House disinfected	One case No extension
"	Cumberland Infirmary	Removed to Crozier Lodge	One case No extension
"	Friars Court, Devonshire Street	Cellar very damp. Removed to Crozier Lodge. House disinfected	Four cases Further extension in same month
"	Murrell Hill ...	Instructions given as to disinfection	Two cases No extension
"	Mount View, Wigton Road	Instructions given as to disinfection	One case No extension
"	Friars Court, Devonshire Street	Cellar very damp. Removed to Crozier Lodge. House disinfected	One case No further Extension
"	Old Grapes Lane, English Street	Removed to Crozier Lodge. House disinfected	One case No extension
February	Crown Street ...	Removed to Crozier Lodge. House disinfected	One case No extension
March ...	Union Street	W.C. choked on account of frost. Removed to Crozier Lodge. House disinfected	One case No extension

Date.	Locality.	Insanitary conditions present and action taken.	Result.
March ..	Tullie Street	Instructions given as to disinfection	One case No extension
"	Close Street	Instructions given as to disinfection	One case No extension
"	Solway Terrace, Corporation Road	Instructions given as to disinfection	One case No extension
April ...	Murrell Hill	Instructions given as to disinfection	One case No extension
"	Hawick Street	Instructions given as to disinfection	One case No extension
June ...	Lorne Creseent	Instructions given as to disinfection	One case No extension
July ...	Victoria Place	Instructions given as to disinfection	One case No extension
"	Graham's Court, Ashley Street	Removed to Crozier Lodge. House disinfected	One case Further extension same month
"	Graham's Court, Ashley Street	Removed to Crozier Lodge. House disinfected	One case No further extension
"	Aglionby Street	Drains defective. Removed to Crozier Lodge. House disinfected	One case No extension
"	Prospect Terrace	Removed to Crozier Lodge. House disinfected	One case No extension
August ..	Ashley Street	Instructions given as to disinfection	One case No extension
"	Aglionby Street	Instructions given as to disinfection	One case No extension
September	London Road	Instructions given as to disinfection	One case No extension
"	Denton Crescent	Removed to Crozier Lodge. House disinfected	One case No extension
"	Milbourne Street	Removed to Crozier Lodge. House disinfected	One case No extension
"	Green Row, Shaddongate	Removed to Crozier Lodge. House disinfected	One case No extension
"	South Petteril-St.	Removed to Crozier Lodge. House disinfected	One case No extension
October...	Murrell Hill	House unfit for human habitation and condemned as such. Re- moved to Crozier Lodge. House disinfected	Two cases No extension
"	Lorne Street	Instructions given as to disinfection	One case No extension
"	Red Lion Hotel, Botchergate	Removed to Crozier Lodge. Room disinfected	One case No extension
"	Dudson's Terrace, London Road	A choked and defective W.C. Also defective W.C. drain. Removed to Crozier Lodge. House dis- infected	One case No extension
November	Meadow Terrace	Instructions given as to disinfection	One case No extension
"	Milbourne Street	Removed to Crozier Lodge. House disinfected	One case No extension
"	Collingwood Street	Instructions given as to disinfection	One case No extension
December	Court Street	Instructions given as to disinfection	One case No extension
"	Millholme Terrace	Instructions given as to disinfection	One case, Dead No extension

EPIDEMIC INFLUENZA.

Epidemic Influenza was again prevalent during the months of February, March, and April, and was no doubt responsible for the high death rate recorded in those months, though no death was registered as being due to Influenza.

NOTIFICATION OF INFECTIOUS DISEASES.

249 cases of infectious diseases have been notified, as compared with 246 cases during the year 1894. The following table gives the number of cases reported during each quarter of the year.

Table shewing the number of Notifications to the Sanitary Authority during the year of each disease specified in the Act.

Nature of Infectious Disease.	Number of Notifications sent in.				Total.
	First Quarter.	Second Quarter.	Third Quarter.	Fourth Quarter	
Cholera	0	1	0	0	1
Small Pox	1	0	0	0	1
Diphtheria	16	3	12	10	41
Membranous Croup ...	0	0	1	3	4
Erysipelas	38	15	24	35	112
Scarlet Fever & Scarlatina	17	3	23	21	64
Typhoid & Enteric Fever	7	0	4	9	20
Typhus Fever	0	0	0	0	0
Relapsing Fever	0	0	0	0	0
Continued Fever	0	0	0	0	0
Puerperal Fever	0	3	2	2	7
Totals	79	25	66	80	250

In two instances two notifications of Erysipelas were sent in relating to the same case.

ISOLATION OF INFECTIOUS DISEASES.

The Sanitary Authority has isolated at Crozier Lodge 47 cases of Infectious Disease during the year, consisting of 22 of Scarlet Fever, 7 of Typhoid Fever, 16 of Diphtheria, 1 of Small Pox, and 1 of Erysipelas. Last year 21 infectious cases were isolated, viz.:—8 of Scarlet Fever, 4 of Typhoid Fever, 1 of Typhus Fever, 1 of Continued Fever, and 7 of Diphtheria.

HOUSE REFUSE REMOVAL.

The nightly removal of house refuse continues to work well, and though the system met with some opposition at first it now proceeds in a satisfactory manner.

FACTORY AND WORKSHOP ACTS, 1878, 1891, & 1895.

Sixty-nine workshops, including 95 rooms, have been visited, measured, and registered during the year. Most of this work has devolved upon the Inspector of Nuisances, but in the early part of the year I accompanied him in his inspection of a considerable number of workshops.

The factories and workshops, so far as they have been visited, were found to be in a satisfactory condition.

COMMON LODGING HOUSES.

The Common Lodging Houses in this City have all been regularly inspected and found to be in a satisfactory condition.

INSANITARY HOUSE PROPERTY.

A considerable amount of house property has been inspected and condemned as unfit for human habitation during the year.

The condemned property embraces the whole of Whippery Lane, Rickergate; one house in Queen Street; six houses in Rigg Street; houses from No. 9 Broadguards to Artizans' Dwellings; the whole of the dwellings in Back Broadguards and The Fleet; and three houses, comprising about twenty rooms, in Bridge Lane, Caldewgate.

The owners of the Whippery Lane property have received notices to put the property into habitable condition by carrying out work according to the specifications of the City Surveyor, although it is difficult to see how any radical alteration short of demolition will render this class of property sanitary.

The insanitary property in Caldewgate is at present under the consideration of the Health Committee.

EXAMINATION OF MEAT.

During the year I have been called to examine the carcasses of 24 animals as compared with 26 last year; 16 of the carcasses were pronounced unfit for human food; 11 of the carcasses were affected with tuberculosis.

The Report of the Royal Commission on Tuberculosis appointed in July, 1890, was presented to Parliament in April of the past year. One of the conclusions of the Commission with regard to tuberculous meat is eminently unsatisfactory from the point of view of a Medical Officer of Health or a Sanitary Inspector who is responsible for the examination of meat intended for human food. The Report, while it points out that the tubercular virus is so infective that it may be carried by means of the butcher's knife from a diseased carcass to a healthy one, yet suggests there is "no objection to the sale of meat substances from carcasses which have shown only localised tuberculosis, and from which every partilce of tubercle has been skilfully removed; provided always that in every subsequent process of preparing

the meat for sale due care be taken to guard the saleable portions from contamination by tuberculous matter." As this proviso is manifestly impracticable, and as in the vast majority of the tuberculous carcasses there is no sure line of demarcation between diseased, and healthy parts, the recommendation which has been much quoted by those interested in the meat "trade" becomes of little practical value.

I am, Gentlemen,

Your obedient Servant,

WILLIAM BROWN,

Medical Officer of Health.

Carlisle, January 18th, 1896.

TABLE I.
BIRTHS, 1895.

QUARTER ENDING.	ST. MARY.			ST. CUTHBERT.			TOTAL FOR CITY.
	Boys.	Girls.	Total.	Boys.	Girls.	Total.	
March 31	97	89	186	66	87	153	339
June 30.....	103	85	188	77	75	152	340
September 30	84	115	199	74	83	157	356
December 31...	85	76	161	65	50	115	276
Totals.....	369	365	734	282	295	577	1311

TABLE II.
DEATHS, 1895.

QUARTER ENDING.	ST. MARY.					ST. CUTHBERT.					TOTAL FOR CITY.
	Males.		Females.		Total.	Males.		Females.		Total.	
	Under 5 years	5 and above	Under 5 years	5 and above		Under 5 years	5 and above	Under 5 years	5 and above		
March 31	28	37	26	58	149	19	50	15	32	116	265
June 30	13	33	10	27	83	14	24	13	25	76	159
Sept. 30	15	32	16	35	98	11	21	12	17	61	159
Dec. 31	28	29	17	49	123	19	20	14	35	88	211
TOTALS FOR YEAR	84	131	69	169	453	63	115	54	109	341	794

TABLE III.

Table shewing the Annual Birth-rate, Rate of Mortality, Death-rates among Children, Deaths in Public Institutions, and Deaths from Seven Principal Zymotic Diseases, for the Year 1895, and Ten Years preceding.

Year.	Births.		Deaths.		Deaths of Children under one year.				Deaths of Children under 5 years.		Deaths in Public Institutions	Deaths from 7 Principal Zymotic Diseases.	
	No. Registered.	Rate per 1000 of Population.	No. Registered	Rate per 1000 of Population.	No. Registered.	Per centage of Total Deaths.	Per centage of Registered Births.	No. Registered.	Per centage of Total Deaths.	No. Registered.		No. Registered.	Rate per 1000 of Population.
1895	1311	32.1	794	19.4	186	23.4%	14.2%	270	34.0%	123	123	33	.8
1894	1315	32.4	780	19.2	174	22.3%	13.2%	256	32.8%	132	132	44	1.1
1893	1389	34.5	868	21.6	248	28.5%	17.8%	416	47.9%	117	117	145	3.6]
1892	1213	30.5	805	20.2	150	18.6%	12.3%	235	29.2%	124	124	55	1.3
1891	1207	30.8	789	20.1	166	21.0%	13.7%	245	31.0%	114	114	63	1.6
1890	1215	30.0	792	19.5	183	23.1%	15.0%	275	34.7%	85	85	65	1.6
1889	1224	30.6	723	18.1	174	24.1%	14.2%	270	37.3%	105	105	69	1.7
1888	1307	33.5	722	18.5	169	23.4%	12.9%	253	35.0%	95	95	59	1.5
1887	1214	31.3	772	19.9	172	22.3%	14.1%	262	33.9%	118	118	75	1.9
1886	1262	33.0	745	19.4	184	24.7%	14.6%	271	36.3%	92	92	62	1.6
1885	1285	34.0	769	20.3	211	27.4%	16.4%	322	41.8%	81	81	66	1.7
Average of 10 years 1885-1894	1263	32.1	776	19.7	183	23.5%	14.4%	280	36.0%	106	106	70	1.7

TABLE IV.

Shewing the Number of Deaths at all ages in 1895, from certain groups of Diseases, and proportions to 1,000 of Population, and to 1,000 Deaths from all causes ; also the Number of Deaths of Infants under one year of age from other groups of Diseases, and proportions to 1,000 Births and to 1,000 Deaths from all causes under one year.

Division I. (Adults).	Total Deaths.	Deaths per 1000 of Population, at all ages.	Deaths per 1000 of Total Deaths at all ages.
1. Principal Zymotic Diseases...	33	.8	41.5
2. Pulmonary Diseases.. ...	166	4.0	209.0
3. Principal Tubercular Diseases	91	2.2	114.6
Division II. (Infants under one year.)	Total Deaths.	Deaths per 1000 of Births.	Deaths per 1000 of Total Deaths under one year.
4. Wasting Diseases	74	1.8	397.8
5. Convulsive Diseases... ..	31	.8	166.7

1. Includes Smallpox, Measles, Scarlet Fever, Diphtheria, Whooping Cough, Typhus, Enteric (or Typhoid), and Simple Continued Fevers, and Diarrhœa.
2. Includes Phthisis, Scrofula, Tuberculosis, Rickets, and Tabes.
4. Includes Marasmus, Atrophy, Debility, Want of Breast Milk, and Premature Birth.
5. Includes Hydrocephalus, Infantile Meningitis, Convulsions, and Teething.

TABLE V.

Table shewing the Number of Deaths from the principal Zymotic Diseases in the 10 Years 1885 to 1894 and in the Year 1895.

DISEASE.	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	Annual Average of 10 Years 1885—1894	Proportion of Deaths to 1000 Deaths in 10 years, 1885—1894.	Total Deaths in 1895.	Proportion of Deaths to 1000 Deaths in 1895.
Smallpox	...	...	...	2	...	...	...	...	1	...	.3	.4	..	...
Measles... ..	22	4	16	3	44	1	22	3	77	20	21.2	27.3	5	6.3
Scarlet Fever	2	7	1	...	...	22	21	4	11	2	7.0	9.0	2	2.5
Diphtheria	...	3	3	...	5	6	2	14	11	4	4.8	6.2	5	6.3
Whooping Cough.....	31	19	22	32	8	12	7	23	20	12	18.6	24.0	7	8.8
{ Typhus	...	...	2	1	...	...	..	4	..	...	.7	.9	...	...
{ Enteric	1	6	17	8	1	2	2	3	5	2	4.7	6.0	4	5.0
{ Simple continued	..	...	...	...	..	..	...	...	...	...	...	...	...	...
Diarrhoea	10	23	14	13	11	22	9	4	20	4	13.0	16.7	10	12.6
Totals	66	62	75	59	69	65	63	55	145	44	70.3	90.5	33	41.5
Rate per 1000 of population.....	1.7	1.6	1.9	1.5	1.7	1.6	1.6	1.3	3.6	1.1	1.7	...	.8	...

TABLE VI.—Table of Deaths during the year 1895 in the Urban Sanitary District of Carlisle, classified according to Diseases, Ages, and Localities.

Mortality from all Causes at subjoined Ages.										Mortality from subjoined Causes, distinguishing Deaths of Children under Five Years of Age.																	TOTAL.										
At all Ages.		Under 1 Year.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and upwards.	Fevers.							Membranous Croup.	Typhus.	Enteric or Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Cough.	Diarrhoea and Dysentery.	Rheumatic Fever.		Phthisis.	Bronchitis, Pneumonia, & Pleurisy.	Heart Disease.	Influenza.	Injuries.	All Other Diseases.				
2	3	4	5	6	7	8	9	1	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30									
1																																					
St. Mary Sub-Dist.	399	100	49	15	22	112	101	Under 5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	42	1	1	1	1	1	1	1	1	149				
Cumberland (S. Mary) Infirmary	46	...	4	5	8	23	6	5 upwds.	...	...	...	...	...	...	...	...	...	1	...	...	...	...	44	43	40	5	8	109	250								
Fever Hospital	4	...	...	2	...	2	...	5 upwds.	...	...	1	...	...	...	...	...	...	...	...	...	...	...	3	1	...	...	2	1	4								
Home for Incurables	4	...	...	...	...	3	1	5 upwds.	...	...	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...				
St. Cuthbert S.-Dist.	272	82	31	14	22	69	54	5 upwds.	2	...	2	...	1	...	...	...	1	1	1	4	3	...	...	...	27	...	...	2	...	...	...	...	...	113			
Fusehill (S. Cuthbert) Workhouse	67	4	...	...	1	25	37	5 upwds.	...	...	2	...	1	...	...	...	...	...	...	1	3	1	24	29	16	5	6	70	159								
H.M. Prison do.	2	...	...	...	...	1	1	5 upwds.	...	...	...	...	1	...	...	...	...	...	...	...	2	...	2	6	15	2	1	34	4				63				
TOTALS.....	794	186	84	36	53	235	200	Under 5	2	...	5	...	4	...	...	...	...	1	1	5	6	4	...	2	70	1	...	4	175	270							
								5 upwds.	...	...	...	...	...	...	...	...	...	1	1	...	1	5	5	173	81	761	20	244	524								
The subjoined numbers have also to be taken into account in judging of the above records of mortality.																																					
Deaths occurring outside the district among persons belonging thereto.	...	...	...	...	...	...	...	Under 5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
Deaths occurring within the district among persons not belonging thereto.	30	...	1	3	3	18	5	Under 5	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			

TABLE VIII.
CARLISLE URBAN SANITARY AUTHORITY.
Deaths Registered from all Causes during the year 1895.

CAUSE OF DEATH.	AGES.										Totals.	55 to 60
	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 and upwards	
I. SPECIFIC FEBRILE, OR ZYMOTIC DISEASES	17	7	5	5	2	3	4	5	3	4	...	...
II. PARASITIC DISEASES	...	...	...	...	...	...	...	...	...	...	...	...
III. DIETIC DISEASES	...	...	...	...	1	...	...	1	...	...	...	...
IV. CONSTITUTIONAL DISEASES	10	17	14	32	26	19	10	20	15	3	...	...
V. DEVELOPMENTAL DISEASES	28	...	...	...	...	...	...	1	10	13	10	...
VI. LOCAL DISEASES	78	55	15	16	15	23	26	62	77	53	6	...
VII. DEATHS FROM VIOLENCE	1	3	2	...	2	3	2	6	3	2	...	...
VIII. DEATHS FROM ILL-DEFINED AND NOT SPECIFIED CAUSES	52	2	...	...	1	1	1	1	1	...	...	...
TOTALS	186	84	36	53	47	49	43	96	109	75	16	794
I.—SPECIFIC FEBRILE, OR ZYMOTIC DISEASES.												
I.—Miasmatic Diseases.												
Smallpox { Vaccinated	...	...	...	...	...	...	...	...	...	...	...	...
Unvaccinated	...	...	...	...	...	...	...	...	...	...	...	...
No statement	...	...	...	...	...	...	...	...	...	...	...	...
Measles	4	1	...	...	...	...	...	...	...	...	...	5
Scarlet Fever	1	1	...	...	...	...	...	...	...	...	...	2
Typhus	...	...	...	...	...	...	...	...	...	...	...	...
Whooping Cough	4	2	1	...	...	...	...	...	...	...	...	7
Diphtheria	...	...	4	1	...	...	...	...	...	...	...	5
Simple, Continued, and Ill-defined Fever	...	...	...	...	...	...	...	...	...	...	...	...
Enteric or Typhoid Fever	...	...	...	1	1	2	...	...	...	...	...	4

TABLE VIII—continued.

CARLISLE URBAN SANITARY AUTHORITY.

Deaths registered from all Causes during the year 1895.

CAUSE OF DEATH.	AGES.											TOTALS.	55 to 60
	upwards												
	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 and upwards		
IV.—CONSTITUTIONAL DISEASES—continued.													
Rheumatism ...	...	...	...	1	1	...	1	...	...	...	...	3	...
Gout ...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rickets ...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cancer, Malignant Disease ...	...	...	...	...	4	3	17	10	3	...	...	41	...
Tabes Mesenterica ...	3	4	1	...	...	...	...	...	...	...	...	8	...
Tubercular Meningitis, Hydrocephalus	4	9	2	19	13	6	1	...	...	...	...	23	...
Phthisis ...	1	2	29	1	...	...	...	3	...	...	...	75	...
Other Forms of Tuberculosis, Scrofula	1	3	...	...	...	...	...	...	...	...	...	8	...
Purpura, Hæmorrhagic Diathesis ...	...	...	...	...	...	...	...	...	...	...	...	...	...
Anæmia, Chlorosis, Leucocythæmia ..	1	...	...	1	...	1	1	2	...	...	...	6	...
Glycosuria, Diabetes Mellitus ...	...	...	...	...	1	...	...	...	...	...	...	1	...
Other Constitutional Diseases ..	...	...	...	...	...	...	...	...	...	...	...	...	...
V.—DEVELOPMENTAL DISEASES.													
Premature Birth ...	26	...	...	...	...	...	...	...	...	...	...	26	...
Atelectasis ...	...	...	...	...	...	...	...	...	...	...	...	...	...
Congenital Malformations ...	2	...	...	...	...	...	...	...	...	...	...	2	...
Old Age ...	...	...	...	...	...	...	1	10	13	10	...	34	...
VI.—LOCAL DISEASES.													
1.—Diseases of Nervous System.													
Inflammation of Brain or Membranes...	...	1	1	...	...	...	2	1	...	...	...	6	...
Apoplexy, Softening of Brain, Hemiplegia, Brain Paralysis ...	...	...	...	1	2	4	10	8	17	...	...	42	...

TABLE VIII.—*continued.*
CARLISLE URBAN SANITARY DISTRICT.

Deaths registered from all Causes during the year 1895.

CAUSE OF DEATH	AGES										TOTALS.	55 to 60
	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 and upwards	
VI.—LOCAL DISEASES—<i>continued.</i>												
Ascites	...	...	...	...	...	...	...	...	...	...	...	...
Cirrhosis of Liver ..	...	...	...	...	1	...	...	...	...	...	...	1
Jaundice and other Diseases of Liver	3	...	...	...	...	...	...	...	...	...	...	3
Other Diseases of Digestive System	..	...	...	1	1	1	...	...	...	...	...	4
6.—Diseases of Lymphatic System. (<i>e.g.</i> , of Lymphatics and of Spleen)	...	...	...	...	...	...	...	...	...	...	...	...
7.—Diseases of Gland-like Organs of Uncertain Use. (<i>e.g.</i> , Bronchocele, Addison's Disease) Goitre	...	...	...	1	...	...	...	...	...	...	...	1
8.—Diseases of Urinary System.												
Nephritis	...	...	...	...	...	...	...	1	...	...	...	...
Bright's Disease, Albuminuria ...	...	...	...	...	...	...	...	2	3	...	...	5
Disease of Bladder or of Prostate	...	...	...	...	...	...	...	...	1	1	...	2
Other Diseases of the Urinary System	...	...	...	3	1	...	...	...	...	...	...	5
9.—Diseases of Reproductive System.												
A. Of Organs of Generation.												
Male Organs	...	...	...	...	...	...	1	...	...	...	...	...
Female Organs ..	...	...	...	...	...	...	...	...	...	...	...	1
B. Of Parturition.												
Abortion, Miscarriage	...	...	...	...	...	...	...	...	...	...	...	...
Puerperal Convulsions	...	...	...	...	...	...	...	...	...	...	...	...

TABLE VIII—continued.

CARLISLE URBAN SANITARY DISTRICT.

Deaths registered from all Causes during the year 1895.

CAUSE OF DEATH	AGES.											Totals.	55 to 60
	AGES.												
	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 and upwards		
VII.—DEATHS FROM VIOLENCE—continued.													
Poison ...	...	...	...	...	1	...	...	...	...	...	...	1	...
Drowning ...	...	...	...	...	...	1	...	...	...	...	...	1	...
Hanging ...	...	...	...	...	...	...	1	...	...	...	...	1	...
Otherwise ...	...	...	...	...	...	...	...	...	...	...	...	...	...
4—Execution													
Hanging ...	...	...	...	...	...	...	...	...	...	...	...	...	...
VIII.—DEATHS FROM ILL-DEFINED AND NOT SPECIFIED CAUSES.													
Dropsy ...	...	...	...	...	...	...	...	...	...	...	...	...	...
Debility, Atrophy, Inanition ...	48	2	...	...	...	...	...	...	...	...	...	50	...
Mortification ...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tumour ...	...	...	...	...	...	1	...	...	...	...	...	2	...
Abscess ...	...	...	...	...	1	...	...	...	...	...	...	1	...
Hæmorrhage ...	1	...	...	...	...	...	...	...	...	...	...	1	...
Sudden Death (cause not ascertained)	...	...	...	...	...	...	...	...	...	...	...	...	...
Causes not Specified or Ill-defined ...	3	...	...	...	...	...	1	...	...	...	...	5	...

SUMMARY OF TABLE VIII.

	No. of Deaths.
I.—Specific Febrile, or Zymotic Diseases—	
1. Miasmatic Diseases	35
2. Diarrhoeal „	10
3. Malarial „	...
4. Zoogenous „	...
5. Venereal „	7
6. Septic „	3
II.—Parasitic Diseases	...
III.—Dietic Diseases	2
IV.—Constitutional Diseases	166
V.—Developmental Diseases	62
VI.—Local Diseases—	
1. Diseases of Nervous System	104
2. Diseases of Organs of Special Sense	1
3. Diseases of Circulatory System	77
4. Diseases of Respiratory System	166
5. Diseases of Digestive System	53
6. Diseases of Lymphatic System	...
7. Diseases of Gland-like Organs of Uncertain Use	1
8. Diseases of Urinary System	13
9. Diseases of Reproductive System	...
(a). Diseases of Organs of Generation	1
(b). Diseases of Parturition	...
10. Diseases of Bones and Joints	10
11. Diseases of Integumentary System	...
VII.—Violence—	
1. Accident or Negligence	19
2. Homicide	...
3. Suicide	5
4. Execution	...
VIII.—Ill-defined and not Specified Causes ..	59
Total	794

TABLE IX.
LOCALITIES OF DEATHS FROM PRINCIPAL ZYMOTIC
DISEASES.

LOCALITY.	Smallpox	Measles	Scarlet Fever	Diphtheria	Whooping Cough	Typhus Fever	Typhoid Fever	Diarrhoea
<i>St. Mary Sub-District—</i>								
Back Duke Street ...	..	...	...	...	...	...	...	1
Bright Street ...	...	2	...	...	...	...	...	...
Elm Terrace ...	...	1	...	...	...	...	...	...
Graham Street ...	...	...	...	...	1	...	...	...
Fever Hospital, Crozier Lodge	...	...	...	2	...	...	2	...
Infirmary ...	...	...	...	1	...	...	...	...
Rigg Street ...	...	1	...	...	...	...	...	...
Warwick Square East ...	...	...	...	...	1	...	...	...
<i>St. Cuthbert Sub-District—</i>								
Blackfriars Street ...	..	...	...	...	1	...	...	...
Collier Lane ..	...	...	...	...	...	...	...	1
Crescent ...	...	...	...	...	...	...	...	1
Crosby Street (Bewley's Court)	...	...	1	...	...	...	...	...
Crown Street (Area Court)	...	...	...	...	1	...	...	...
Dudson's Terrace ...	...	...	...	1	...	...	...	...
Fusehill Workhouse ...	...	...	...	...	...	...	1	2
Greystone ...	...	...	...	...	1	...	...	...
Greystone Road ...	...	...	...	...	...	...	1	...
Howe Street ...	...	...	...	...	...	...	...	2
Millholme Terrace ...	...	...	...	1	...	...	...	...
St. Nicholas Street ...	...	...	...	...	...	...	...	1
South John Street ...	...	...	...	...	...	...	...	1
Summer Hill ...	...	...	1	...	...	...	...	...
Sybil Street ...	...	...	...	...	1	...	...	...
Union Street ..	...	1	...	...	...	...	...	...
Do. (Hodgson's Court) ...	...	...	...	...	1	...	...	...
Wood Street ...	...	...	...	...	...	...	...	1
Total ...	...	5	2	5	7	...	4	10

