

[Report 1881] / Medical Officer of Health, Leicester Borough.

Contributors

Leicester (England). Borough Council.

Publication/Creation

1881

Persistent URL

<https://wellcomecollection.org/works/ys3bqsxe>

License and attribution

This work has been identified as being free of known restrictions under copyright law, including all related and neighbouring rights and is being made available under the Creative Commons, Public Domain Mark.

You can copy, modify, distribute and perform the work, even for commercial purposes, without asking permission.



Wellcome Collection
183 Euston Road
London NW1 2BE UK
T +44 (0)20 7611 8722
E library@wellcomecollection.org
<https://wellcomecollection.org>

BOROUGH OF



LEICESTER.

ANNUAL REPORT

ON THE

HEALTH AND SANITARY CONDITION
OF THE BOROUGH,

WITH

Quarterly and Yearly Tables of Deaths,

FOR 1881,

BY

WILLIAM JOHNSTON, M.D.,

MEDICAL OFFICER OF HEALTH.

LEICESTER:

WINKS & SON, STEAM PRINTERS, 53, HIGH STREET.





Digitized by the Internet Archive
in 2017 with funding from
Wellcome Library

BOROUGH OF LEICESTER.

SANITARY COMMITTEE.

HENRY THOMAS CHAMBERS, Esq., MAYOR.

CHAIRMAN :

MR. ALDERMAN WINDLEY.

MEMBERS :

MR. ALDERMAN BENNETT,

„ COUNCILLOR BLAND,

„ „ BRUIN,

„ „ CLEAVER,

„ „ COLTON,

„ „ CROW,

„ „ DICKS,

„ „ GIMSON,

„ „ GODDARD,

„ „ JESSOP,

„ „ LANKESTER,

MR. COUNCILLOR MATHER,

„ „ MEADOWS,

„ „ NEALE,

„ ALDERMAN PAGET,

„ COUNCILLOR ROWLEY,

„ „ SLADEN,

„ „ UNDERWOOD,

„ ALDERMAN WHEELER,

„ COUNCILLOR WILFORD,

„ „ WOOD.

The Committee meet every Friday, at the Committee Room, Town Hall, at half-past Three o'clock in the Afternoon.

CONTENTS.

	PAGE
Births	5
Deaths	5
Ward Mortality	9
Zymotic Mortality	12
Small Pox	14
Scarlet Fever	14
Fever Hospital	15
Whooping Cough	15
Diarrhœa	16
Fever	16
Zymotic Mortality in Wards	16
Constitutional Diseases	17
Local Diseases	20
Developmental Diseases	20
Sanitary Work :	24
Nuisances	24
Sewer Cleansing	25
Unwholesome Food	37
Well Waters	37
APPENDIX	43



MEDICAL OFFICERS' REPORT, 1881.



TO THE SANITARY COMMITTEE OF THE COUNCIL
OF THE BOROUGH OF LEICESTER.

MR. CHAIRMAN AND GENTLEMEN,

I have the honour to submit to you my Annual Report on the Health and Mortality of the Borough, together with a statement of the Sanitary work accomplished during the year 1881.

BIRTHS.

The number of births registered during the year 1881 amounted to 4,711, against 4,860 in 1880—which latter, however, was a larger number than was recorded in many previous years. The births were 149 less than in 1880, and 61 below the average of the preceding five years. Of the 4,711 births, 3,126 were registered in the sub-district of St. Margaret's, and 1,585 in that of West Leicester. The birth-rate was equal to 38·3 per 1,000, being 2·1 less than that for the previous year. The illegitimate births numbered 209, of which 96 were males and 113 females; the percentage was 4·43 of the total children born.

DEATHS.

During the year 1881 the deaths registered in the Borough were 2,677. To this number must be added 34 deaths that occurred in the Borough Fever Hospital, and 24 in the Borough Asylum at Humberstone. From the total 2,735 fatal cases must be deducted 46 deaths that took place in the County Asylum, 33 in the Infirmary, and 2 in the jail, of persons who had been received into these institutions from county districts. The remaining number, 2,654, represents the corrected total deaths for the year under notice, and is 315 less than in the preceding year.

The excess of births over deaths, representing the natural increase to the population, was 2,057, and is greater by 166 than the accession in the previous year.

The mortality for the year under notice was 21·56 per 1,000 of persons estimated to be living in the middle of the year. The rate was lower by 3·14 than in 1880, and compares favourably with those of other large English towns.

In the following Table I have classified the total deaths, and calculated the rates for the respective classes of disease :

Class of Disease.	Deaths.	Death-Rate.	% of Total Deaths.
I.—Zymotic Diseases ...	567	4·605	21·19
II.—Constitutional	332	2·6965	12·42
III.—Local	1,101	8·942	41·14
IV.—Developmental	560	4·548	20·92
V.—Violence	81	·658	3·02
VI.—Ill-defined	36	·292	1·31
TOTAL	2,677	21·741	100·00

The following is the corresponding return for 1880 :—

Class of Disease.	Deaths.	Death-Rate.	% of Total Death
I.—Zymotic	848	7·05	28·6
II.—Constitutional	367	3·05	12·4
III.—Local	1,070	8·8	36·1
IV.—Developmental	586	4·87	19·7
V.—Violence	61	0·51	2·0
VI.—Ill-defined	37	0·31	1·2
TOTAL	2,969	24·68	100·0

On comparing these Tables it will be seen that the decline in the death-rate is mainly due to the fewer deaths recorded from Zymotic and preventable causes.

The total deaths last year included 1,374 of children under five years, and of these, 965 were infants under one year of age. The rate of infant mortality, measured by the proportion of deaths under one year to births, was equal to 205 per 1,000, against 220 in the preceding year, and an average of 211 in the nine preceding years.

The Table given below will show in detail how the total deaths were distributed. The rates of mortality at different ages and groups of ages are here shown, and for comparative information the English Life Table rates for the same age periods are also given. On comparing these rates with those of 1880 (Table II.) it will be seen that there is a marked reduction in the mortality of last year at ages under five years, owing chiefly to a decrease in the fatality from Zymotic causes (*vide* page 6). If we refer to the fourth column in the Table we also find that the Leicester rates, with the exception of those for ages under one year and between three and four years were, for all the other age groups, *below* those of the English Life Table.

TABLE I.

POPULATION, DEATHS, AND ANNUAL RATE OF MORTALITY IN THE BOROUGH OF LEICESTER DURING THE YEAR 1881 AT SIXTEEN GROUPS OF AGES COMPARED WITH THE ENGLISH LIFE TABLE RATES AT THOSE AGES FOR PERSONS.

	Persons.		Annual Rate per 1,000 persons living.	
	Estimated Population, 1881.	Deaths, 1881.	Leicester.	English Life Table.
All Ages	123,120	...	...	...
Under 1 year ...	4,039	965	238·9	165·38
1—2 years	3,379	205	60·67	65·58
2—3 „	3,174	89	28·04	36·14
3—4 „	3,048	77	25·26	24·33
4—5 „	2,941	38	12·92	17·92
Total under } 5 years ... }	16,581	1,374	82·86	65·7
5—10 years ...	13,820	108	7·8	9·6
10—15 „ ...	12,624	45	3·6	5·2
15—20 „ ...	12,946	51	3·9	6·5
20—25 „ ...	11,829	63	5·3	8·9
25—35 „ ...	18,769	141	7·5	10·3
35—45 „ ...	14,102	149	10·6	12·8
45—55 „ ...	10,459	148	14·2	17·6
55—65 „ ...	6,992	202	28·9	30·4
65—75 „ ...	3,718	222	59·7	62·4
75—85 „ ...	1,143	140	122·5	131·2
85 and upwards	137	34	248·1	258·3

TABLE II.

POPULATION, DEATHS, AND ANNUAL RATE OF MORTALITY IN THE BOROUGH OF LEICESTER DURING THE YEAR 1880 AT SIXTEEN GROUPS OF AGES COMPARED WITH THE ENGLISH LIFE TABLE RATES AT THOSE AGES FOR PERSONS.

	Persons.		Annual Rate per 1,000 persons living.	
	Estimated Population, 1880.	Deaths, 1880.	Leicester.	English Life Table.
All Ages	120,325	2,969	24·67	21·5
Under 1 year ...	3,948	1,070	271·02	165·38
1—2 years	3,303	383	115·95	65·58
2—3 „	3,103	148	47·7	36·14
3—4 „	2,979	77	25·84	24·33
4—5 „	2,875	49	17·04	17·92
Total under 5 years ... }	16,208	1,727	106·55	55·7
5—10 years ...	13,509	107	7·9	9·6
10—15 „ ...	12,340	32	2·6	5·2
15—20 „ ...	12,655	52	4·1	6·5
20—25 „ ...	11,563	52	4·5	8·9
25—35 „ ..	18,338	133	7·2	10·3
35—45 „ ...	13,775	155	11·3	12·8
45—55 „ ...	10,244	169	16·5	17·6
55—65 „ ...	6,835	177	25·9	30·4
65—75 „ ...	3,634	193	53·1	62·4
75—85 „ ...	1,117	139	124·4	121·2
85 and upwards	134	33	246·3	258·3

The following Tables are compiled to show (a) the distribution of the deaths in the seven Ward districts of the town during the years 1880 and 1881, (b) the ages at death included under three groups of ages, and (c) the rate of mortality calculated upon the populations living in the several Wards.

TABLE III.

WARD DISTRIBUTION OF DEATHS FROM ALL CAUSES, 1881.

WARDS.	POPULATION.	AGES AT DEATH.				Total Deaths.	RATES PER 1,000 LIVING.			
		Under 1 Year.	1 to 5 Years.	Over 5 Years.	Total Deaths.		Under 1 Year.	1 to 5 Years.	Over 5 Years.	All Ages.
		St. Martin's ...	2,172	7	1		22	30	3.22	.46	10.13	13.81
North St. Margaret's ...	12,941	113	48	105	266	8.73	3.71	8.12	20.56	
Middle " ...	34,479	333	161	306	800	9.59	4.64	8.81	23.04	
East " ...	26,644	173	88	299	560	6.49	3.30	11.21	21.00	
East St. Mary's ...	9,335	28	12	83	123	3.00	1.29	8.88	13.17	
West " ...	23,568	155	68	287	510	6.57	2.88	12.17	21.62	
All Saints' ...	13,986	146	45	114	305	10.44	3.22	8.15	21.81	
Total ...	123,125	955	423	1,216	2,594	7.76	3.44	9.87	21.07	
Deaths in Infirmary ...	...	...	7	46	53	...	...	...	...
" " Union ...	...	10	8	54	72	...	...	...	...
<i>Corrected Deaths.</i>										
East St. Margaret's ...	...	163	80	245	488	6.11	3.00	9.19	18.3
West St. Mary's ...	...	155	61	241	457	6.57	2.59	10.22	19.37

TABLE IV.
WARD DISTRIBUTION OF DEATHS FROM ALL CAUSES, 1880.

WARDS.	POPULATION.	AGES AT DEATH.				Total Deaths.	RATES PER 1,000 LIVING.			
		Under 1 Year.	1 to 5 Years.	Over 5 Years.	Total Deaths.		Under 1 Year.	1 to 5 Years.	Over 5 Years.	All Ages.
St. Martin's ...	2,172	10	3	12	25	4.60	1.38	5.52	11.50	
North St. Margaret's ...	12,881	122	91	110	323	9.47	7.06	8.54	25.06	
Middle " ...	34,231	345	231	289	865	10.07	6.74	8.44	25.26	
East " ...	24,746	206	125	292	623	8.32	5.05	11.80	25.17	
East St. Mary's ...	9,227	31	20	126	177	3.36	2.17	8.89	14.42	
West " ...	23,106	193	95	289	577	8.36	4.11	12.51	24.98	
All Saints' ...	13,962	163	92	124	379	11.67	6.59	8.88	27.14	
Total ...	120,325	1,070	657	1,242	2,969	8.89	5.46	10.32	24.67	
Deaths in Infirmary ...	...	...	7	91	98	...	...	...	...
" " Union ...	...	10	20	106	136	...	...	...	...
<i>Corrected Deaths.</i>										
East St. Margaret's ...	...	196	105	186	487	7.92	4.24	7.51	19.67
West St. Mary's ...	...	193	88	198	479	8.36	3.80	8.57	20.73

On referring to the Tables it will be found that in East St. Margaret's Ward and West St. Mary's the deaths during the two years under notice were very numerous; but this marked excess in the returns is owing to the fact that the deaths which occurred in the Union Workhouse are included in the returns for East St. Margaret's, while those that took place in the Infirmary are added to the returns of West St. Mary's. As the patients received into these institutions are drawn pretty equally from all districts of the town it will be evident that to arrive at a just estimate of the deaths which took place among the actual population in these two Wards the cases which ended fatally in the Infirmary and Union should be deducted from the total deaths. The deaths thus corrected, with the corresponding rates of mortality, are therefore appended to each of the Tables.

From a want of knowledge as to the Ward populations we have never, as yet, been able to arrive at a correct estimate of the relative healthiness of each Ward, and any inferences which may previously have been drawn were but matters of surmise. The Census Returns have, however, enabled me to calculate for the last two years the true rates of mortality for the seven Wards in the Borough.

The largest number of deaths recorded in the years 1880 and 1881 was, for both years, in Middle St. Margaret's Ward, and amounted to 865 and 800 respectively: the next highest numbers were accredited to East St. Margaret's, the deaths being 487 in 1880, and 488 in 1881. The deaths during both years in the other Wards, given in descending order, were as follows:—

	1880.	1881.
West St. Mary's Ward	479	457
All Saint's ,, 	379	305
North St. Margaret's Ward	323	266
East St. Mary's ,, 	177	123
St. Martin's ,, 	25	30

The deaths at all ages registered last year, when calculated upon the populations residing in the respective Wards, show that North St. Margaret's, All Saint's, and Middle Margaret's Wards, with rates of mortality equal to 20·56, 21·81, and 23·04 respectively, were the most unhealthy areas in the Borough, whilst St. Martin's and East St.

Mary's Wards were the most healthy—their rates being only 13·81 and 13·17 per 1,000 respectively. From the preceding Tables it will also be seen that in 1880 and 1881 the rates of mortality in East Margaret's and West Mary's Wards were considerably below the average rate for the whole town.

The greatest mortality, relatively to the population, among children under one year of age was in All Saint's—11·67 in 1880, and 10·44 in 1881; whilst in Middle St. Margaret's for the same years the rates were 10·07 and 9·59; North St. Margaret's, 9·47 and 8·73; West St. Mary's, 8·36 and 6·57; East Margaret's, 7·92 and 6·11; and the lowest rates were in St. Martin's and East St. Mary's Wards.

Further reference to the Tables will show that the fluctuations found in the *general* rates of some of the Wards closely depend upon differences in the rates of mortality at ages under one year and between one and five years, as the rates for ages over five years are seen to have been pretty uniform for all the seven Wards.

ZYMOTIC DISEASES.

The deaths registered in 1881 from the miasmatic order of Zymotic class of diseases amounted to 567, and included 10 deaths from Erysipelas, 12 from Puerperal Fever, 10 from Rheumatism, 4 from Croup, and 548 fatal cases returned under the seven principal Zymotic diseases.

The 548 deaths from the seven principal Zymotic diseases represented an annual death-rate of 4·45 per 1000 of the estimated population, equal to a per centage of 20·6 of the corrected total mortality. The above rate is lower than that of 1880 by 2·05 per thousand, chiefly owing to a very marked diminution in the deaths from diarrhoea and measles (*Vide* Table V.).

TABLE V.

SHEWING THE DEATHS FROM THE SEVEN PRINCIPAL ZYMOTIC DISEASES IN THE THIRTEEN YEARS,
1868 TO 1880, AND IN THE YEAR 1881.

DISEASE.	1868	1869	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	1880	Proportion of Deaths to 1,000 Deaths in 1880.	1881.	Proportion of Deaths to 1,000 Deaths in 1881.
Small Pox	1	0	0	12	346	2	0	0	0	6	1	0	0	0.0	2	.754
Measles	247	43	42	35	36	62	24	49	50	40	45	72	166	55.9	7	2.64
Scarlet Fever ...	9	8	263	112	5	6	18	175	173	33	12	105	119	40.1	184	69.33
Diphtheria.....	10	9	11	7	2	9	8	7	10	9	5	11	23	7.7	11	4.147
WhoopingCough	6	70	56	32	51	64	43	91	33	65	82	61	27	9.1	122	45.99
Fever	63	57	52	65	64	55	48	64	43	20	31	21	46	15.5	29	10.93
Diarrhoea.....	349	272	240	303	305	314	257	308	263	185	302	88	398	134.1	193	72.76
Total	685	459	664	566	829	512	398	694	572	358	478	358	779	262.4	548	206.551

SMALL POX.

Two deaths resulted from this cause, and both of these occurred in the Fever Hospital. On four distinct occasions this disease appeared in the town but, owing to immediate removal to the Fever Hospital at Freake's Grounds, together with a thorough disinfection and lime washing of the houses where the disease had shewn itself, the further spread of the malady was arrested. The first occasion on which it appeared was the 6th of March, at 24, Hutchinson Street, (father and daughter affected); the second time was on the 27th of May, in a lodging-house in Bedford Street (in the person of a tramp); its third appearance was on the 17th of August in a lodging-house (tramp); and the fourth, on the 18th of December, in the Union Workhouse. The prevention of the spread of the disease, in all these instances, must be regarded as highly satisfactory, and is a striking proof of the great utility of your Hospital when early and complete removal of the sick is secured.

SCARLET FEVER.

155 deaths were registered in the Borough from this disease; to these must be added 29 cases which proved fatal in the Fever Hospital, shewing the total deaths in the year to have been 184, a number exceeding by 65 the fatality in 1880.

This increase in the deaths from Scarlet Fever, notwithstanding the extensive use made of the Hospital during the year is, to say the least, very unsatisfactory. No one can doubt but that the frequent visitations of the Inspectors to the houses where the disease appeared, to ascertain the sanitary state of the dwellings, as well as to caution the parents from visiting the houses of their neighbours and from sending their children to school, must have exercised a beneficial effect in awakening the people to a fuller sense of the dangers of the disease. The reduction in scarlatinal fatality that might reasonably have been expected to follow on this increased vigilance of the Inspectors has, however, not been realized, and the reason for this is not difficult to find. During the year 1,045 houses were certified by the medical men to have been visited with scarlet fever. In only 388 of these instances did the parents consent to the removal of their children to the Hospital, leaving 657 houses in which and from which the

disease was allowed, practically speaking, to run its course unimpeded. I say that in these cases the disease ran its course unimpeded, for the great majority of them were in houses of the artizan class, having from two to six rooms, and the scanty space which such dwellings can afford, together with the inability of the parents to provide a separate nurse for the sick, render it quite impossible either to properly isolate the sick, or to prevent the extension of the disease to other houses in the locality. We can only hope that in time parents will avail themselves more widely of the advantages to be gained by having their sick children removed to the Hospital where, under skilful nursing, proper diet, and pure air, their chances of ultimate recovery are undoubtedly much increased.

FEVER HOSPITAL.

During last year no fewer than 440 patients were admitted into this Institution. Of these, 388 were suffering from Scarlet Fever, 46 from Erysipelas, and 6 from Small Pox.

34 of these cases ended fatally, viz., 29 died from Scarlet Fever, 3 from Erysipelas, and 2 from Small Pox. The death-rate was equal to 7·7 per cent., which, if the highly dangerous character of the diseases be taken into account, must be considered as eminently satisfactory. For comparison with previous years a summary of the cases admitted during the year is given in the Appendix, and in order to shew the localities where Scarlet Fever was most prevalent I have included in the summary the names of the streets where the patients resided.

WHOOPIING COUGH

Occupies the third position in order of fatality, having caused 122 deaths. This number exceeds the deaths from this cause in 1880 by 95, and is, both actually and relatively to population, larger than any recorded in the previous thirteen years. Sixty-one of the deaths were of children under one year of age. Whooping Cough is, when uncomplicated, very seldom fatal; complications, however, frequently arise in the course of the disease, and but too often prove fatal where, through want of knowledge, proper care is not bestowed in the nursing of the sick.

DIARRHŒA.

The deaths referred to this cause were 193, against 398 in 1880, and 269, the annual average in the twelve years 1869-1880. Of the 193 fatal cases in last year, 169 were infants under one year, 17 were children between one and two years of age, and only seven were over five years of age. The great diminution in the fatality of this disease was, without doubt, owing to the cool and moist character of the weather that prevailed in the summer quarter of last year. Dr. Ballard of the Local Government Board has, as you are aware, commenced an enquiry into the causes of this disease, and I have no doubt that this gentleman's naturally keen discrimination, together with his great experience as an investigator of the causes of epidemic diseases, will fully enable him to discover the subtle influences which periodically give rise to this most fatal malady.

FEVER.

Deducting three fatal cases among the Infirmary patients from the County the deaths from Fever, including Typhus and Enteric, were 26, against 46 in 1880, and 45, the annual average of the deaths recorded from this cause in the last ten years.

WARD DISTRIBUTION OF THE MORTALITY FROM ZYMOTIC DISEASES IN THE YEARS 1880 AND 1881.

The following Tables are compiled to shew the deaths in the several Wards from the seven principal Zymotic diseases, with the corresponding rates of mortality for the years 1880 and 1881.

Both of the preceding Tables are in themselves sufficiently explanatory. The most important fact to be noticed in them is the great reduction that took place last year in the general Zymotic rate, when compared with the corresponding rate for 1880. This reduction was mainly owing to a marked falling off in the Diarrhœal rate. The death rate from Fever last year is also seen to be about half what it was in the preceding year. On the other hand the Scarlatinal rate and that for Whooping Cough show an increase over the rates in 1880.

With respect to the distribution of Diarrhœa and Scarlet Fever—the two most fatal diseases in the year—the Tables shew that in both years Diarrhœa was most fatally prevalent in All Saints', North St. Margaret's, and Middle Margaret's Wards, and was least prevalent in East St. Mary's, West St. Mary's, and East St. Margaret's Wards.

By far the highest proportionate fatality from Scarlet Fever last year occurred in Middle St. Margaret's, the rate for this district having increased almost threefold on the rate of the previous year. The disease also became more prevalent in East St. Mary's and All Saints' Wards. On the other hand a decline in prevalence took place in St. Martin's, East St. Mary's, and West St. Mary's Wards.

CONSTITUTIONAL DISEASES.

This class of diseases includes the causes of 332 deaths—42 below the number registered in 1880. Seventy-nine of the deaths occurred among children under five years. Phthisis proved the most fatal among the constitutional diseases, being accountable for 205 deaths. Speaking of this class of diseases, Dr. Dudfield, Medical Officer of Health, Kensington, makes the following remarks with respect to the causes of most of them, more especially of Phthisis:—
 “The diseases included in this order are among the most important with which sanitarians have to deal, and the degree to which they prevail may be regarded, in some sort, as a test of the healthiness or otherwise of a population. Generally of an hereditary character, these diseases are nevertheless susceptible of considerable amelioration if not, like some others, of ultimate extirpation, under improved hygienic conditions. Sunlight and pure air; efficient drainage, and its corollary a dry soil; good food, warm clothing, and temperance in all things, are powerful antidotes to the bane of tubercle, which is fostered by the opposites—by filth and squalor, by cold and nakedness, by vice and intemperance, by the want of the proper necessaries of life, by overcrowding in ill-constructed, unventilated, and sewage-tainted houses, and, in a word, by whatever is inimical to the maintainance of a typical condition of health. The cases that occur in the well-to-do classes of Society are usually traceable to the influence of heredity.”

TABLE VI.

WARD DISTRIBUTION OF DEATHS FROM ZYMOVIC DISEASES, 1881.

WARDS.	POPULA- TION.	DISEASES.							Total Deaths.	RATE PER 1,000 LIVING.				
		Measles.	Scarlatina.	Whooping Cough.	Diphtheria.	Fever.	Diarrhoea.	Scarlatina.		Whooping Cough.	Fever.	Diarrhoea.	Total Rate for 7 Diseases.	
St. Martin's...	2,172	...	1	...	...	...	...	4	0.46	...	...	...	1.3812	1.8416
North St. Margaret's ...	12,941	1	10	11	1	2	24	49	0.77	0.85	0.15	...	1.8552	3.7877
Middle " "	34,479	2	75	51	4	7	67	206	2.16	1.47	0.20	...	1.9296	5.9328
East " "	26,644	3	28	22	1	5	34	93	1.05	0.82	0.19	...	1.2750	3.4875
East St. Mary's ...	9,335	...	12	2	1	1	3	19	1.28	0.21	0.11	...	0.3213	2.0349
West " "	23,568	1	16	24	3	11	29	84	0.68	1.02	0.47	...	1.2296	3.5616
All Saints' ...	13,986	...	13	12	1	2	32	60	0.93	0.86	0.14	...	2.2880	4.2900
Total ...	123,125	7	155	122	11	28	192	515	Average	0.99	0.23	...	1.5675	4.1828
Deaths in Infirmary ...	...	...	...	...	...	4	...	4	...	...	...	...	...	...
" " Union ...	...	...	...	1	...	...	1	2	...	...	...	...	...	...
<i>Corrected Deaths.</i>														
East St. Margaret's ...	...	3	28	21	1	5	33	91	1.05	...	0.19	...	1.2375	3.4125
West St. Mary's ...	...	1	16	24	3	7	29	80	0.68	...	0.30	...	1.2296	3.3920

TABLE VII.

WARD DISTRIBUTION OF DEATHS FROM ZYMOTIC DISEASES, 1880.

WARDS.	POPULATION.	DISEASES.								RATE PER 1,000 LIVING.			
		Small Pox.	Measles.	Scarlatina.	Whooping Cough.	Diphtheria.	Fever.	Diarrhoea.	Total Deaths.	Scarlatina.	Fever.	Diarrhoea.	Total Rate for 7 Diseases.
St. Martin's ...	2,172	...	1	2	...	...	...	6	...	0.928	...	1.38	2.76
North St. Margaret's	12,881	...	18	8	2	4	6	99	...	0.6208	0.4656	4.73	7.68
Middle " "	34,231	...	61	26	11	6	8	227	115	0.7592	0.2336	3.36	6.63
East " "	24,746	...	44	27	7	7	4	159	70	1.0908	0.1616	2.83	6.42
East St. Mary's ...	9,227	...	2	7	1	2	2	29	15	0.7588	0.2168	1.63	3.14
West " "	23,106	...	22	21	4	5	21	136	63	0.9093	0.9093	2.73	5.89
All Saints' ...	13,962	...	19	4	2	...	8	112	79	0.2864	0.5728	5.66	8.02
Total ...	120,325	...	167	95	27	24	49	768	406	Average	0.7894	0.4072	6.3821
Deaths in Infirmary ...	...	...	1	...	...	...	13	14	...	...	...	...	...
" " Union ...	...	...	21	...	...	...	...	26	5	...	...	...	...
<i>Corrected Deaths.</i>													
East Saint Margaret's	...	...	23	27	7	7	4	133	65	1.0908	0.1616	2.63	5.37
West St. Mary's ...	...	...	21	21	4	5	8	122	63	0.9093	0.3464	2.73	5.28

LOCAL DISEASES.

1,101 deaths were referred to the numerous causes included in this class of diseases, a number which almost corresponds with the return of the previous year, the difference being only five in excess of the number recorded in 1880.

(*a.*) The number of deaths due to diseases of the nervous system was 309, and included 188 of children under five years. Convulsions, a disease chiefly affecting infancy, caused 155 deaths; while Apoplexy and Paralysis, diseases mostly met with at advanced ages, were accountable for 47 and 45 deaths respectively.

(*b.*) 152 persons died of diseases of the organs of circulation, 148 of these being referred to "Heart Disease," 2 to Pericarditis, and 2 to Aneurism. The fatality in the previous year from the same causes was 159.

(*c.*) To the diseases of the Respiratory Organs 435 deaths were due, 214 being males, and 221 females. These deaths included 215 of children under five years of age, or 50 per cent. of the cases. Bronchitis was the cause of 263 deaths, and Pneumonia of 139, both of which returns closely agree with the deaths in 1880 from similar causes, and shew that the influences which commonly give rise to "chest affections" have varied but little during the last two years.

(*d.*) 77 deaths were ascribed to diseases of the digestive organs; of these, 21 were from Stomach disease, and 19 from Liver complaint. Fourteen of the cases were of children under five years of age.

(*e.*) Of Urinary disease 53 persons died, only four of whom were children under five years. Twenty-three of the deaths were due to Bright's Disease, and thirteen were ascribed to disease of the Kidney, without further specification.

DEVELOPMENTAL DISEASES.

560 deaths were due to the developmental diseases, including 105 to developmental diseases of children, 11 of adults, 167 of old people, and 277 to diseases of nutrition. 19 of the children's deaths were

referred to Teething, and 78 were of children prematurely born. The 277 deaths from diseases of nutrition included 250 of children under one year. The causes of infantile mortality have been fully discussed in my previous Reports.

WARD DISTRIBUTION OF DEATHS FROM FOUR CLASSES OF DISEASES
IN THE YEARS 1880 AND 1881.

From the annexed Tables it will be seen that the mortality from Phthisis was greatest in North St. Margaret's and St. Martin's Wards, and lowest in East Margaret's and West Mary's. Speaking of the town generally, the rate of mortality last year from Consumption exhibited a slight improvement on the rates of previous years.

The mortality from the various Respiratory diseases, or "Chest Affections," was highest in North St. Mary's, Middle Margaret's, and All Saints' Wards, and lowest in St. Martin's, West Mary's, and East Margaret's. When the returns for 1880 are compared, the same order is maintained in the Wards with respect to the degree of fatality from these diseases.

The diseases referred to in the annexed Tables are those which affect, for the most part, infants and children; and I consider that the mortality recorded from these causes, taken together in each of the Ward districts, forms a most accurate register of the domestic condition and habits of the people residing therein.

From the Tables it will be seen that the highest mortality occurred in All Saints', Middle St. Margaret's, and North St. Margaret's Wards, and the lowest in East Mary's, St. Martin's, and West Mary's Wards.

TABLE VIII.

WARD DISTRIBUTION OF DEATHS FROM FOUR CLASSES OF DISEASES, 1881.

WARDS.	POPULATION.	DISEASES.				RATE PER 1,000 LIVING.			
		Phthisis.	Respiratory Diseases.	Develop-mental Diseases.	Convul-sions.	Phthisis.	Respiratory.	Develop-mental.	Convul-sions.
St. Martin's	2,172	4	4	3	...	1.84	1.38	...	...
North St. Margaret's	12,941	25	49	51	14	1.93	3.94	1.08	1.08
Middle " "	34,479	51	133	132	45	1.47	3.83	3.80	1.30
East " "	26,644	41	81	76	25	1.54	3.04	2.85	0.94
East St. Mary's	9,335	15	26	10	9	1.61	2.78	1.07	0.96
West " "	23,568	39	69	52	33	1.65	2.92	2.20	1.40
All Saints'	13,986	22	47	54	29	1.57	3.36	3.86	2.07
Total	123,125	197	409	378	153	Average	3.07	3.07	1.24
Deaths in Infirmary ...	...	7	10	...	...	...	...	...	...
" " Union ... ..	...	10	7	7	...	...	...	...	...
<i>Corrected Deaths.</i>									
East Saint Margaret's	...	31	74	69	25	1.16	2.59	0.94	0.94
West St. Mary's... ..	...	32	59	52	33	1.36	2.20	1.40	1.40

TABLE IX.

WARD DISTRIBUTION OF DEATHS FROM FOUR CLASSES OF DISEASES, 1880.

WARDS.	POPULATION.	DISEASES.				RATE PER 1,000 LIVING.			
		Phthisis.	Respiratory Diseases.	Developmental Diseases.	Convulsions.	Phthisis.	Respiratory.	Developmental.	Convulsions.
St. Martin's ...	2,172	...	3	6	1	...	2.76	0.46	
North St. Margaret's	12,881	27	57	38	15	...	2.9488	1.1640	
Middle " ...	34,231	56	144	147	35	...	4.2924	1.0220	
East " ...	24,746	40	80	82	23	...	3.3128	0.9292	
East St. Mary's... ..	9,227	19	19	11	6	...	1.1924	0.6504	
West " ...	23,106	39	85	74	26	...	3.2042	1.1258	
All Saints' ...	13,962	18	35	62	25	...	4.4392	1.79	
Total ...	120,325	199	423	420	131	Average Rate	3.5151	1.0886	

SANITARY WORK.

The Sanitary Work in the Borough has been vigorously prosecuted during the year. Judged by subsequent results upon health, the most important of the sanitary improvements have been the cleansing of some of the main sewers with many of the street culverts connected with them, and the application of a higher standard of purity in the analysis of the well waters in the town. These improvements will be afterwards referred to.

NUISANCES.

During the year ending 31st December, 1881, 363 orders were served on owners of house property to cleanse and lime wash filthy houses.

The number of Notices sent out for the abatement of various nuisances was 663. In 193 instances, notices were given to repair defective or private street drains which required opening and clearing from obstruction; in 57, to efficiently trap defective drains; in 30, to disconnect sink drains from the sewer; in 226, to reconstruct or repair foul ashpits; in 24, to provide sufficient privy accommodation; in 55, to properly pave back yards; and in 41, to make good foul or defective urinals.

Notices were also served for the following nuisances: 33 arising from swine keeping; 49 caused by water in cellars; and 49 due to chimneys emitting black smoke from five to twenty minutes in the hour.

SEWERAGE IMPROVEMENTS.

During the summer months of each year the mortality in all the large towns is suddenly and considerably increased, chiefly owing to diarrhoeal prevalence. The death-rate in Leicester during the first,

second, and fourth quarters of the year has for many years past remained satisfactorily low ; but, with the advent of summer, diarrhœa and other fatal forms of infantile disorders which supervene upon an attack of diarrhœa become unusually prevalent, and the mortality arising therefrom is so excessive as to raise, with persistent frequency, the general rate to higher limits than in other large towns. As you are aware the immediate cause of diarrhœa is, in my opinion, to be found in a periodic defilement of the air of large towns with sewer emanations, and as very great energy has been displayed by the Council, during the last twelve months, in carrying out various improvements in the sewerage which will materially affect the health of the people, the following pages will be found to contain a statement of the work carried out upon the sewers since May, 1881.

For the details of this sanitary work I am indebted to the Borough Surveyor, Mr. Gordon, C.E., who has kindly supplied me with the measurements, etc., of the work which has been done.

SEWER CLEANSING.

One of the most important Sanitary Works of the past year has been the commencement and carrying on in an organised and systematic manner the cleansing of the main sewers. Work of this character has generally only been done where and when some stoppage of private drains has led to an examination of the sewers into which they emptied themselves, and it was found that the sewers required opening out and cleansing for some considerable distance before a free passage for the drainage could be obtained. This mode of dealing with the sewers requiring cleansing was necessarily spasmodic and only undertaken as occasion seemed to require ; it could not be satisfactory inasmuch as the sewers above and below, being left uncleansed, the newly cleansed portions soon became silted up to the condition of the other parts of the sewers.

The cleansing works undertaken and commenced by the new Borough Surveyor in May last were begun on a different plan, namely, by starting at the *Outfall* sewer in the Abbey Meadow, and working upwards, so as to have always a clear outfall and cleansed sewer *below* the works in progress.

The works have necessarily been heavy, and attended with considerable cost, from the fact that very few of the sewers are large enough to admit of workmen passing through them; and even where this is so, there were practically no means of access to them. The existing brick shafts brought up from the sewers towards the surface were nearly all hermetically sealed with large stone covers at from four feet to six and seven feet below the surface. Shafts had, therefore, to be excavated down to the sewers at such distances apart as, according to the circumstances of the case (regulated chiefly by the size and condition of the sewer), were requisite to enable the workmen to effect the work of cleansing in a thorough and efficient manner.

Along the Abbey Meadow, where the sewer is partly 9 feet in height and partly 4 feet 8 inches high, the excavated shafts averaged 63 yards apart.

Branching off from this across the canal, and through the Friday Street Borough Yard, the sewer being only 3 feet 9 inches in diameter, the excavations averaged 25 yards apart. In Watling Street it became necessary to place the shafts nearer, namely, at a distance of 9 yards from each other while from the top or south end of Watling Street along Canning Street and Canning Place, and also along John Street, Harcourt Street, and Archdeacon Lane, owing to the diminished diameter of the sewer to 2 feet 6 inches, the shafts had to be sunk not more than eight yards apart. As the works progressed upwards and away from the outfall, where the sewers originally put down when the first sewerage system was carried out diminish in size, shafts had to be sunk at distances not greater than six yards.

The works were begun at the so-called Sump in the Abbey Meadow, a point nearly opposite the Sewage Works or Pumping Station. There is a branch sewer from this point which crosses the river to the Works to conduct the sewage to the pumps, but when these are overpowered in heavy rains, and the storm water rises about nine feet above the invert of the sewer to the level of the Belgrave Mill Tail, a penstock is opened and the storm water passes straight on to the Belgrave Pond. From this Sump the works were continued upwards through the Meadow and Abbey Park to the point where the Slater Street and the Friday Street branches meet. From here the line of sewer was followed through

the Friday Street Yard and Watling Street, then to the eastward along Canning Street, John Street, Harcourt Street, and Archdeacon Lane, to a point where the upper portion of this sewer has been cut off and diverted into a newly constructed sewer along the Belgrave Road.

In order that the work might be prosecuted as rapidly as practicable, a second gang of men were started, on the 28th of June, in the opposite direction, to the westward from the point of junction with the main trunk at Watling Street, and the works continued along Canning Street, Canning Place, St. Margaret Street, Sanvey Gate, Northgate, Northgate Lane, Friars Road, Charlotte Street, Alexander Street, Sarah Street, Butt's Lane, and The Hollow; then through Mr. Charlesworth's and Mr. Brown's Gardens, the Castle Yard, The Newarke, along Asylum Street, Crown Street, Albert Street, and New Bridge Street, where the works in this direction are at present in progress, and approaching completion.

On the 14th of June a third gang of men were started with another section of the sewers, namely, the eastern and eastern relief sewers. Commencing at the corner of Sidney Street and Belgrave Road, the examination and cleansing works were here carried on in one direction downwards *with* the stream along Sidney Street owing to the smaller amount of silt met with at this point, and in order that a fourth gang of men might start with the more pressing and important work in the upland direction along the Belgrave and Junction Roads. Along Sidney Street and across the Meadow to the main sewer near to the new Abbey Bridge, shafts were sunk at about 45 yards apart, that is to say, at those points only where it was considered requisite to introduce new man holes or ventilating shafts. The sewer being 3 feet 6 inches in height, and not containing a great deal of silt, enabled the work to be carried on without intermediate shafts. Along the Belgrave Road from Wood Street to the corner of Junction Road, although the sewer is of the same size, the shafts had to be placed much nearer to each other in consequence of the greater amount of silt to be dealt with precluding the possibility of the workmen passing through long lengths of sewer. Continuing along the Junction Road and Russell Square, where the size of the sewer diminishes to 3 feet by 2 feet, egg-shaped, it became

necessary to sink shafts at not greater distances than ten yards apart. At the corner of Wharf Street and Russell Square the egg shaped sewer terminates and a barrel sewer of two feet diameter commences, so that the cleansing from this point upwards had to be carried out by passing the cleansing tools from one shaft to another, rendering it consequently necessary to limit the distance of the shafts from each other to about eight yards. The works were continued along Wharf Street to Brook Street, then along the latter street, Lead Street, Benford Street, Dysart Street, and Curzon Street to the Humberstone Road, where this main sewer terminates, and it was not considered advisable to continue the cleansing operations to the tributary sewers branching off here, but rather to turn back to other main lines. The cleansing of the eastern relief sewer along Willow Street and Cobden Street was therefore next commenced at its junction with the foregoing sewer in Junction Road, and the work continued along Willow Street and Cobden Street to the Humberstone Road, where it was found that the sewers branching off from this point across the field opposite the Albert Inn and the Spinney Hill Recreation Ground in the one direction, and along the Humberstone Road to the eastward in the other, were comparatively free from deposit, and that it would therefore be unnecessary to continue the cleansing works along these lines of sewers. The more cleanly condition of these sewers is accounted for by the higher elevation of the ground which they traverse, and their consequently increased fall. Shafts have, therefore, only been sunk along these lines where new man holes and ventilating shafts were requisite. Existing old brick shafts have also been utilized and brought up to the surface. Along the Humberstone Road, in particular, new man holes are being constructed at every junction of a sewer from the streets on the south side of the road. The construction of such man holes and ventilating shafts has also been continued along St. Saviour's Road and Charnwood Street, so far as these streets are under notice and in course of re-formation for the purpose of adoption as public streets.

In addition to these regularly organized works the necessity arose for cleansing some other branch sewers in order to relieve stoppages which had taken place in private drains, as, for instance, in Birstall Street, Soar Lane, Wheat Street, Eaton Street, Gas Street, Caroline Street, Southgate Street, Lewin Street, Wheat Street (storm sewer)

Red Cross Street, Grosvenor Street, and Curzon Street. The sewers of a number of streets in various parts of the town, viz., Charnwood Street, New Street, Christow Street, Sparkenhoe Street, Belgrave Gate, Friar Lane, Crab Street, Carley Street, Denman Street, Eaton Street, Abbey Street, Lewin Street, Metcalf Street, Providence Street, Wheat Street, Woodboy Street, St. James' Road, Northampton Square, Rodney Street, Russell Street, Chester Street, Henry Street, Sherrard Street, Bradgate Street, Underhill Street, St. Leonard's Street, Catherine Street, Lyttleton Street, Bow Bridge Street, and Abbey Gate, were also examined by means of shafts sunk down to them at various points, and their condition ascertained.

Beyond cleansing some of the worst lengths of those sewers lying between Christow Street and Wharf Street, I am given to understand that the mode of dealing with them requires more consideration; further cleansing works have, therefore, been postponed until some decision has been come to. The following tabulated statement shews the lengths and sizes of sewers cleansed, also the number of old brick shafts which were hermetically sealed by a covering of from four to seven feet of earth which have been opened out, and the new man holes and ventilating shafts which have been constructed. It also gives the number of shafts which had to be sunk down to the sewers to carry on the works, and shews the depth of the various sewers.

It will be seen from the following Tables that along the line of 7,845 yards, or about $4\frac{1}{2}$ miles of sewer, there were only eight points of access by shafts brought up to the surface, and provided with openings for ventilation. Even these were not provided with step irons, and access to the sewer could therefore only be obtained by a ladder dropped down the shaft. These, as well as other old shafts brought up to the surface have now been provided with varnished cast iron steps built into the brick work in the same manner as in the new man holes, so that the sewers are now easily accessible. The number of openings thus originally existing for ventilation being about two to the mile, it will be clear to every sanitarian that this limited number of openings was totally inadequate to relieve the sewers and private drains from the pressure of sewer gas formed under such conditions.

A. MAIN OUTFALL SEWER in the Abbey Meadow, extending Westward, and Main Branch Sewer across the Canal and through the Friday Street Yard and along Watling Street, then to the Westward along Sanvey Gate, and to the South along Bath Lane, through the Castle Yard, the Newarkes, and along Asylum Street, Brown Street, Albert Street, and New Bridge Street.

Description.	Length.		Size of Sewer.		Average Depth.		Minimum Depth.		Maximum Depth.		Old Brick Shafts covered with 6 feet to 7 feet of earth, now brought up to the surface.	New Manholes.	New Ventilating Shafts.	M. H. and V. S. with Surface Gratings previously existing.	No. of Shafts excavated for cleansing purposes.
	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.					
<i>Main Outfall Sewer.</i>	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.					
Abbey Meadow ...	1080,	0	9 0 by 4 8	4	...	3	1	...	7	
Abbey Park ...	1,199	0		4 8	1	...		3	...	6	
<i>Branch Main.</i>															
Abbey Park, across Canal, and through Friday Street Yard	511	0	3 9	3	4	
Watling Street ...	471	0	3 9	19 10	18 3	20 8	22 2	22 8	2	...	1	...	15		
Canning Street ...	181	3	3 3	21 2	20 8	22 2	22 8	1	...	...	...	...	6
Canning Place ...	300	3	3 3	22 0	21 6	22 8	22 8	1	...	1	...	...	10
St. Margaret's Street	222	9	3 3	22 5	21 11	22 8	22 8	1	...	...	...	...	5
Sanvey Gate ...	1,062	10	2 6	19 9	18 3	22 0	22 0	3	...	3	2	...	21		
North Gates and North Gate Lane	229	10	2 6	21 9	19 0	23 5	23 5	2	...	...	...	...	...
Friars Road ...	199	9	2 6	23 10	23 5	24 4	24 4	1	...	1	...	...	1
Charlotte Street ...	311	4	2 6	25 5	24 4	26 6	26 6	2	...	1	...	...	1
Alexander Street ...	444	8	2 6	20 7	15 9	26 6	26 6	3	...	1	...	...	6
Sarah Street ...	505	9	2 6	18 10½	15 9	19 0	19 0	1	...	2	1	...	12		
Bath Lane... ..	368	0	3 0	19 9	18 6	21 2	21 2	...	...	...	2	...	7
Bath Lane... ..	426	5	2 6	19 9	18 0	21 6	21 6	2	1	1	...	...	9
Castle Street ...	238	0	2 6	19 0	17 1	21 6	21 6	2	...	...	...	...	1
Charlesworth's garden	199	8	2 4	21 2	19 9	24 1	24 1	...	...	...	...	...	4
Brown's garden ...	67	3	2 6	...	...	...	...	...	...	...	...	...	...
Castle Yard ...	352	11	2 6	30 8	27 2	35 4	35 4	3	...	...	...	...	3
The Newarkes... ..	423	6	2 6	27 6	24 8	29 2	29 2	2	...	1	...	...	10
Asylum Street ...	1,438	0	2 6	20 0	16 10	24 8	24 8	8	1	2	...	...	32
Crown Street ...	158	0	2 6	14 6	12 8	16 10	16 10	1	1	...	...	...	4
Albert Street ...	239	9	2 6	12 5	12 3	12 9	12 9	1	...	1	...	...	5
New Bridge Street ...	309	11	2 6	11 9	10 10	12 9	12 9	1	1	...	...	...	7
Total	10,940	8	...	...	...	...	...	45	7	18	5	176	

B. BRANCH MAIN, part of original Eastern Sewer, extending Eastward from Watling Street, along Canning Street, Saint John Street, Luke Street, Harcourt Street, and Archdeacon Lane, to Foundry Square.

Description.	Length.		Size of Sewer. ft. in. Barrel	Average Depth.		Minimum Depth.		Maximum Depth.		Old Brick Shafts covered with 6 feet to 7 feet of earth, now brought up to the surface.	New Manholes.	New Ventilating Shafts.	M. H. and V. S. with Surface Gratings previously existing.	No. of Shafts excavated for cleansing purposes.
	ft.	in.		ft.	in.	ft.	in.	ft.	in.					
Canning Street... ..	70	8	2 6	20 8	20 6	20 9	1	...	...	...	...	...	2
Saint John Street	150	0	2 7	20 8	20 4	21 2	1	...	...	...	...	...	5
Luke Street	71	0	2 7	21 0	21 0	21 0	1	...	...	...	...	...	2
Harcourt Street	301	0	2 7	20 7	19 11	21 2	1	...	1	...	...	...	10
Archdeacon Lane	999	10	2 7	15 10	13 0	18 9	5	...	2	...	...	...	29
Total	1,592	6	2 7	19 9	18 11	20 7	9	...	3	...	...	...	48

C. SIDNEY STREET BRANCH MAIN, or Eastern Relief Sewer, extending from the Main Outfall Sewer in the Abbey Meadow, along Sidney Street, Belgrave Road, Junction Road, and Russell Square, where the Eastern Sewer is joined, extending along Wharf Street, Brook Street, Lead Street, Benford Street, Dysart Street, and Curzon Street, to the Humberstone Road.

Abbey Meadow,) from junction with Main Outlet to)	1,422	9	$\left\{ \begin{array}{l} 3 \ 6 \\ \text{by} \\ 2 \ 6 \end{array} \right\}$	17 7	16 6	22 11	3	2	6	...	...	...	8
Sidney Street	524	5	$\left\{ \begin{array}{l} 3 \ 6 \\ \text{by} \\ 2 \ 6 \end{array} \right\}$	15 7	14 8	18 6	1	...	...	...	...	...	3
Belgrave Road... ..	759	4	$\left\{ \begin{array}{l} 3 \ 6 \\ \text{by} \\ 2 \ 6 \end{array} \right\}$	15 3	14 9	16 0	4	...	...	...	...	1	2
Total	2,706	6	$\left\{ \begin{array}{l} 3 \ 6 \\ \text{by} \\ 2 \ 6 \end{array} \right\}$	16 2	15 4	19 2	8	2	6	...	...	1	13
Junction Road	626	8	$\left\{ \begin{array}{l} 3 \ 0 \\ \text{by} \\ 2 \ 0 \end{array} \right\}$	14 1	13 9	14 7	2	1	2	...	...	...	18
Russell Square... ..	323	5	$\left\{ \begin{array}{l} 3 \ 0 \\ \text{by} \\ 2 \ 0 \end{array} \right\}$	13 4	13 1	13 10	1	1	...	...	...	...	11
Total	950	1	$\left\{ \begin{array}{l} 3 \ 0 \\ \text{by} \\ 2 \ 0 \end{array} \right\}$	13 9	13 5	14 3	3	2	2	...	...	...	29

C. SYDNEY STREET BRANCH MAIN (continued).

Description.	Length.		Size of Sewer.	Average Depth.		Minimum Depth.		Maximum Depth.		Old Brick Shafts covered with 6 feet to 7 feet of earth, now brought up to the surface.	New Manholes.	New Ventilating Shafts.	M. H. and V. S. with Surface Gratings previously existing.	No. of Shafts excavated for cleansing purposes.
	ft.	in.		ft.	in.	ft.	in.	ft.	in.					
Wharf Street	382	5	2 0 Barrel	14 1	13 2	15 4	2	...	...	...	...	...	12
Brook Street	467	0	2 0	13 0	11 7	15 4	2	...	2	...	...	...	14
Lead Street	375	2	2 0	11 5	10 10	11 10	3	...	...	...	...	...	9
Benford Street	596	9	2 0	11 5	10 10	12 1	2	...	3	...	...	...	17
Dysart Street	243	10	2 0	10 11	10 5	11 4	...	...	...	...	...	1	7
Curzon Street	391	4	2 0	12 2	11 3	13 1	...	1	3	...	...	...	15
Total	2,456	6	2 0 Barrel	12 2	11 4	13 2	9	1	8	1	...	...	74

D. BRANCH EASTERN Relief Sewer cleansed from Junction Road, along Lower Willow Street and Cobden Street, to the Humberstone Road.

Lower Willow Street } and Willow Street }	2390	2	{ 3 0 by 2 0 }	15 1	13 7	17 5	2	4	9	1	...	71
Cobden Street	852	3	{ 3 0 by 2 0 }	17 0	13 7	18 7	...	1	4	...	...	22
Total	3,242	5	{ 3 0 by 2 0 }	16 0	13 7	18 0	2	5	13	1	...	93

E. Branch Sewers cleansed in various parts of the town.

Birstall Street	174	0	1 3	9 3	9 3	9 3	...	...	...	...	...	7
Soar Lane... ..	344	0	1 3	10 9	8 10	13 2	...	...	1	...	...	9
Wheat Street	345	0	{ 9 in 10 15 "	9 4	9 0	9 8	...	...	...	...	...	15
Eaton Street	435	0	{ 12 " 10 15 "	9 8	9 4	10 0	...	...	...	...	...	15
Gas Street... ..	60	6	0 10	10 2	9 10	10 5	...	...	...	...	...	3
Caroline Street... ..	288	6	1 3	12 4	10 6	13 3	...	...	...	...	...	10
Total	1,647	3	...	10 3	9 5	10 11	...	...	1	...	...	59

SUMMARY of Sewers Cleansed.

Description.	Length.		Size of Sewer.		Average Depth.		Minimum Depth.		Maximum Depth.		Old Brick Shafts covered with 6 feet to 7 feet of earth, now brought up to the surface.	New Manholes.	New Ventilating Shafts.	M. H. and V. S. with Surface Gratings previously existing.	No. of Shafts excavated for cleansing purposes.
	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.					
A. Main Outfall Sewer	10,940	8	...	20 7	18 9	22 5	45	7	18	5	176				
B. Archdeacon Lane Branch	1,592	6	2 7	19 9	18 11	20 7	9	..	3	...	48				
C. Sydney Street Branch of Eastern Sewer	6,113	1	{ 3 6 } by { 2 6 }	14 0	13 4	15 6	20	5	16	2	116				
D. Willow Street and Cobden St. Branches	3,242	5	{ 3 0 } by { 2 0 }	16 0	13 7	18 0	2	5	13	1	93				
E. Branch Sewers ...	1,647	3	...	10 3	9 5	10 11	...	...	1	...	59		
Total in Feet ..	23,535	11	...	16 1	14 10	17 6	76	17	51	8	492				
,, ,, Yards	7,845	$\frac{1}{3}$...												

The total number of old and new man holes finished in the manner described amounts to 101, as a reference to the Table will shew. In addition to this, 51 new ventilating shafts have been constructed; so that in the place of 2 ventilating openings there are now 152 such openings, being equal to 34 per mile, or an average distance of 51 yards between them. This is probably a larger number of openings than has been carried out in any English town, and is nearly double the number recommended by Mr. Rawlinson, the Chief Superintending Inspector and Consulting Engineer of the Local Government Board; but it is, under the circumstances of the case, considered by the Surveyor perfectly justifiable and necessary, if that stagnation and formation of sewer gases so dangerous an element in connection with house drainage is to be counteracted by a free circulation of air within the sewers. There are already a

number of factory chimneys connected to the sewers for the purpose of ventilation and if these can be increased it will ensure the new surface ventilators acting within a given radius of each chimney to a greater extent as down-cast shafts, diluting the sewer air and passing it through the fires of the boilers up the chimneys.

Along the Humberstone Road, from the corner of Cobden Street towards Humberstone, 10 new man holes and 2 new ventilating shafts have been constructed. In the upper part of St. Saviour's Road 5 new man holes and 1 new ventilating shaft have been put in; and in Charnwood Street, between Farnham Street and Kent Street, 4 new man holes and 6 new ventilators have been built although, as before stated, it has not been considered requisite to do any cleansing works along these lengths.

In tracing the eastern sewer across the field from the Humberstone Road to Charnwood Street, and across the Spinney Hill for a distance of 533 yards, 5 new manholes and 7 ventilating shafts have been constructed and it is intended to continue this work along this line of sewer to its termination. It will be seen by the tables that some of the sewers lie at a great depth, in fact the sewers operated upon are the deepest and heaviest of the works originally constructed. All along Watling Street, Canning Street, St. John Street, and Harcourt Street, then again along Canning Place, St. Margaret Street, and Sanvey Gate the depth ranged from 18 feet 7 inches to 22 feet 8 inches; while in continuation of the westerly line the sewer reached the depth of 26 feet 6 inches in Charlotte Street, and the very great depth of 35 feet 4 inches in the Castle Yard. Through the Newarke and along part of Asylum Street the depth ranged from 29 feet 2 inches down to 21 feet 3 inches, continuing all along Asylum Street at about 20 feet. These depths rendered it necessary to use great caution in the timbering of the shafts, and the Surveyor informs me that no accident involving personal injury to the workmen employed occurred during the works. Several cases of sickness occurred, and it was remarked by the foreman in charge of the works in the Wharf Street district that always after heavy rains, which washed down and disturbed the silt in the sewers, the workmen employed in the bottom with the actual cleansing works were frequently attacked with Diarrhœa, and had to remain away for

several days. There were 4 of the workmen who contracted Typhoid Fever in the cleansing of the eastern sewer.

The number of men employed on the works varied, as a matter of course, and increased as the work expanded in various directions. The greatest number employed was 79. This number is now reduced to 20 completing the works in New Bridge Street, and those putting in new man holes and ventilating shafts in the Humberstone Road district.

The exact position of the sewers, as found by the excavated shafts, has been accurately taken, as have also the exact levels; so that the Surveyor is in a position to indicate on plans the sewers as they really exist, and to make sections of them, shewing their actual depths and inclinations from one common datum—namely, the ordnance.

The Surveyor is of opinion that the cleansing works, and the introduction of inspection and ventilating shafts, should be extended to the other sewers of the town. In all new foul water sewers excavated since March, 1881, of which about 600 yards were completed, the system of inspection shafts and surface ventilators has been carried out, as in the case of the new sewer in Belgrave Gate at Foundry Square and along Melton Street, and also in that of the new street recently completed between West Bridge and Bow Bridge, and in the extension of the New Bridge Street sewer from Hazel Street. The same arrangements are being applied to all private streets in course of construction by private owners, under the directions of the Borough Surveyor, and the following sewers of that class have just been completed :—

Mere Road	1340 feet	Skipworth Street ...	360 feet
St. Saviour's Road...	130 ,,	Onslow Street ...	220 ,,
Lower Surrey Street	200 ,,	Guildford Street ...	125 ,,
Total feet, 2,375.		Total yards, 791'73.	

A duplicate system of sewers is being introduced by the execution of storm water sewers, which are intended to abstract as much as possible the rainfall from the foul water sewers, and thus relieve them in storms and rainy weather to such an extent that it will be less often necessary to stop the engines and consequently maintain, for

as lengthened periods as practicable, the advantages equivalent to a free outfall. The sewers of this character carried out during the last six months are as follow :—

	Feet.	In.		Feet.	In.
Ash Street	559	6	Frank Street	417	8
Newby Street	537	6	Oak Street	561	3
Elm Street	407	6	Larch Street	328	2
Humberstone Road...	871	0	Preston Street	331	9
St. Saviour's Road ...	1278	6	Shenton Street	430	6
Flint Street	363	3	Farnham Street	551	4
Charnwood Street ...	1334	0	Sherrard Street...	140	6
Mount Street	30	0	Edwyn Street	534	4
Belgrave Road	405	0	Soar Lane... ..	242	0
New Street between			Craven Street	250	0
West & Bow Bridges	345	0			
Fosse Road	50	0	Total	9968	9

By private owners—

	Feet.
Brandon Street	1600
Skipworth Street...	550
Guildford Street...	170
Onslow Street	220
	<hr/>
	2540

Total, 12508 feet 9 inches. 4169½ yards. Equal to 2·37 miles.

If works of this character be continued until they have been extended to the whole town, they cannot fail to have a beneficial effect on the sanitary condition of the Borough; and it is to be hoped that, notwithstanding other important public works in progress and in contemplation, these sanitary improvements may not be neglected, but rather pressed forward until every part of the Borough has had its share of them.

SEIZURES OF UNWHOLESOME FOOD.

The weight of unwholesome food condemned and seized by the Food Inspector, during 1881, was equal to 31,931 lbs., and comprised 17,663 lbs. of beef, mutton, ham, &c. ; 14,118 lbs. of fish, and 150 lbs. of fruit. In addition to this there was a number of deer, rabbits, and fowls, also a large quantity of shell fish condemned. The greater portion of the above was destroyed at the request of Mr. Wand, Food Inspector, but several prosecutions were instituted in which the defendants were fined and in one case imprisoned.

WELL WATERS.

However desirable it would be for Health Authorities to have a fixed standard of purity for universal application in the analyses of well waters throughout the country, it is simply impossible to construct such a standard from the variations of subsoil everywhere met with and the manifold sources from which organic principles in surface waters are derived. The best method of obtaining a standard of purity for well waters to be used by a Health Authority is to ascertain, by frequent borings, the character and proportions of the constituents in the natural water of the district. When tested by such a measure, the analysis of well water, if polluted only to a slight extent, will always give results amounting to positive proof of pollution having taken place, and thus, while no injustice is done to owners of house property, the health of the consumers is safely guarded.

Last year I had the honour of laying before you a report on my analyses of many of the well waters in the Borough, in which I strongly recommended a change in the method of analysis then in use (Wanklyn's), and suggested that borings should be made for surface water, and samples of it analysed. This you agreed to, and the analyses of the natural water were carried out.

The results, sent in by your Analyst, fully endorsed the statements contained in my Report with respect to the character of the natural subsoil water, which proved that, as far as organic constituents were concerned, the water here obtained was remarkably pure, its only objectional feature being its excessive degree of hardness.

The following summary shews the proportions of the main constituents of eight samples of surface water drawn from borings in different parts of the Borough:—

	Chlorine.	Smell when heated to 100° F.	Nitrogen as Nitrates.	Ammonia, Free.	Albumenoid Ammonia.	Total Solids at 42°.
I.	0·8	None	·228	·002	002·	35·0
II.	1·8	None	·065	·002	·006	49·3
III.	1·7	None	·106	·000	·004	52·5
IV.	1·2	None	·075	·000	·008	28·0
V.	1·0	None	·004	·004	·005	147·7
VI.	0·8	None	·038	·000	·009	81·6
VII.	0·7	None	·043	·000	·009	121·1
VIII.	0·9	None	·279	·000	·006	42·0
Average of the above eight samples—						
	| 1·1	| ...	| 0·105	| 0·001	| 0·006	| 69·6
Standard of the Extreme Limit of Potability as agreed upon with the Public Analyst and the Medical Officer—						
	| 3·0	| ...	| 0·517	| 0·005	| 0·01	| ...

The annexed return shows the number of wells analysed and condemned in each year during the last seven years:—

			Wells Analysed.		Wells Condemned.	
1875	...	...	53	...	..	36
1876	...	...	177	...	...	90
1877	...	..	78	...	...	33
1878	...	...	213	...	...	97
1879	...	...	200	...	...	79
1880	...	...	147	...	...	43
1881	..	...	76	...	...	25
Total			944	...	...	403

Well waters analysed by the new method :—

Wells Analysed.	...	...	...	Wells Condemned.
71				56

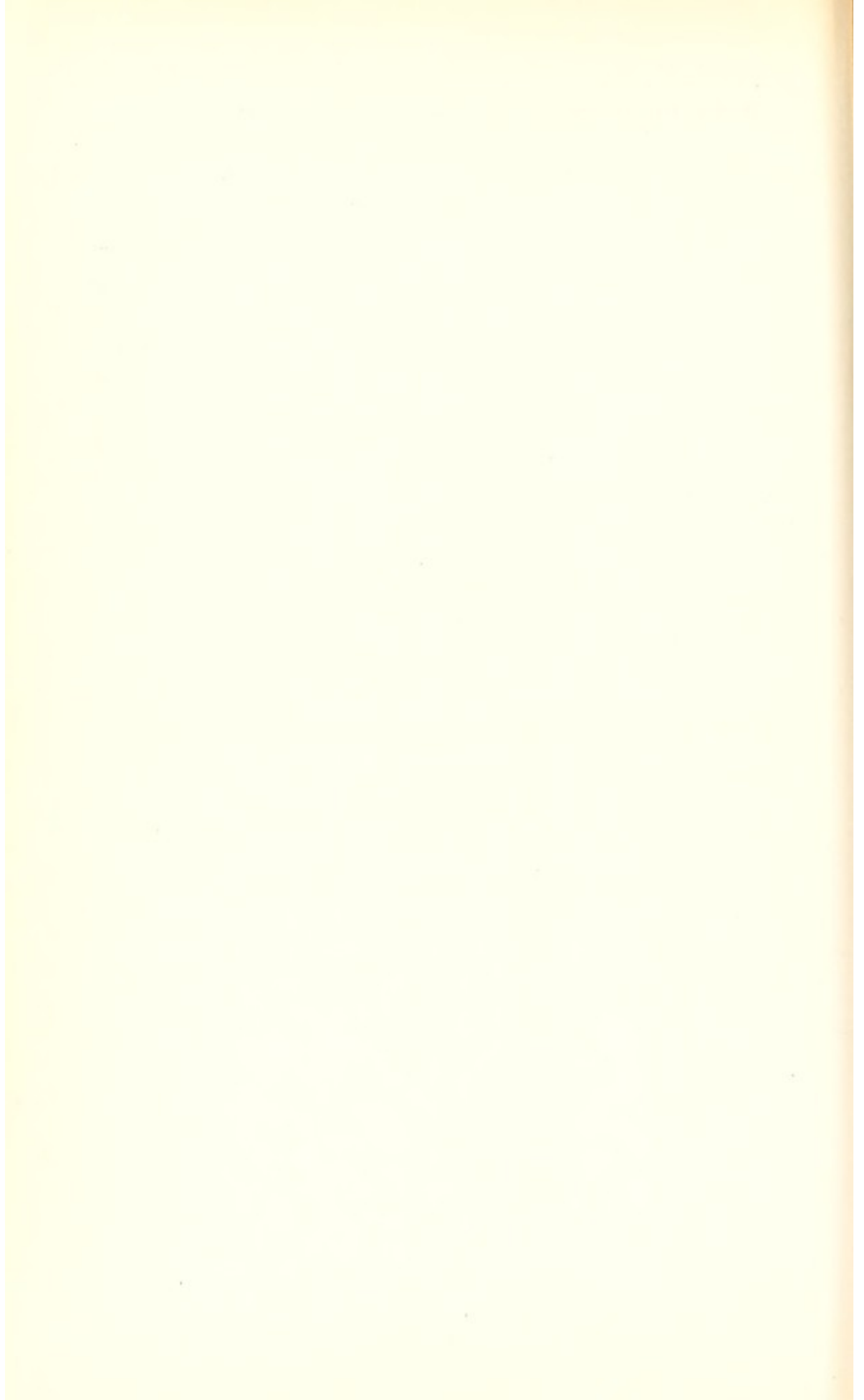
The above shews that the proportion of well waters condemned by the old method averaged for the seven years 42·7 per cent. of the samples analysed, whereas the proportion condemned by the new method is 78·8 per cent. of the samples analysed since this process was introduced. It will be obvious from these percentages that our new standard is more efficient in detecting the pollution of drinking water than that formerly used, and there can be little doubt that the health of the consumers will be more fully maintained under its continued application.

I am, Mr. Chairman and Gentlemen,

Your obedient Servant,

WILLIAM JOHNSTON.

28th February, 1882.



APPENDIX

TO THE

Report of the Medical Officer of Health,
1881.



SUMMARY OF CASES OF INFECTIOUS DISEASES ADMITTED INTO
THE BOROUGH HOSPITAL DURING 1881.

No.	Age.	Date of Admission.	Residence.	Disease.	Date of Discharge.	Observations.
1	9	Jan. 1	Braunstone Gate	Scarlet Fever	Feb. 12	
2	11	" 2	Denman Street	" "	" 12	
3	7	" 3	Braunstone Gate	" "	" 12	
4	7	" 4	Crescent Street	" "	" 24	Very severe.
5	3	" 4	Royal East Street	" "	Jan. 29	
6	1 $\frac{1}{4}$	" 4	" " "	" "	" 29	
7	3	" 7	Grosvenor Street	" "	Feb. 19	Malignant.
8	7	" 7	Denman Street	" "		Malignant. Died Jan. 14.
9	23	" 7	Grosvenor Street	" "	Jan. 24	
10	23	" 11	Lutterworth	" "	Feb. 15	
11	63	" 12	Keyham	Erysipelas	" 9	
12	6	" 13	Taylor Street	Scarlet Fever	" 26	
13	8	" 14	Edwyn Street	" "	" 26	
14	3	" 19	Elm Street	" "	Mar. 5	
15	6	" 19	" "	" "	" 5	
16	10	" 21	Spitalhouse Street	Erysipelas	Jan. 31	
17	4	" 21	Edwyn Street	Scarlet Fever	Feb. 26	
18	8	" 26	Opal Street	" "	Mar. 7	
19	16	" 27	Arthur Street	" "		
20	10	" 29	New Lane	" "	" 12	
21	43	" 30	All Saints' Road	Erysipelas	Feb. 11	
22	6	" 31	Occupation Road	Scarlet Fever	Mar. 26	Very severe.
23	7	" 31	" "	" "	" 12	
24	4	" 31	Infirmery	" "	April 6	
25	4	" 31	Occupation Road	" "	Mar. 12	

No.	Age.	Date of Admission.	Residence.	Disease.	Date of Discharge.	Observations.
26	6	Feb. 1	Sanvy Gate	Scarlet Fever	Mar. 12	
27	4	" 4	Opal Street	" "	" 19	
28	7	" 5	Grundon Street	" "	" 19	
29	10	" 8	Union	" "	Apr. 16	Very severe.
30	49	" 11	"	Erysipelas	Feb. 16	
31	5	" 12	Napier Street	Scarlet Fever	Mar. 26	
32	3	" 14	Union	" "	April 9	Severe.
33	3	" 14	Harding Street	" "	" 6	Acute.
34	60	" 15	Union	Erysipelas	Feb. 26	
35	6	" 16	"	Scarlet Fever	Apr. 16	Severe.
36	6	" 19	Knighton Street	" "	" 2	
37	4	" 20	Syston Street	" "	" 2	Severe.
38	6	" 20	Union	" "	" 9	Very severe.
39	6	" 20	Syston Street	" "	" 2	Very severe.
40	6	" 22	Royal East Street	" "	" 2	
41	3	" 22	Union	" "	" 9	
42	5	" 22	"	" "	May 7	Malignant.
43	6	" 23	Brunswick Street	" "	April 2	
44	5	" 24	Union	" "	" 9	
45	11	" 25	Mowbray Street	" "	" 9	Severe.
46	57	" 25	Union	Erysipelas	Mar. 7	
47	2	Mar. 4	"	Scarlet Fever	Apr. 16	
48	50	" 6	Hutchinson Street	Small Pox	May 7	Confluent.
49	20	" 6	" "	" "	" 7	Confluent.
50	3	" 6	Union	Scarlet Fever	" 7	
51	4	" 6	"	" "	Apr. 23	
52	4	" 7	"	" "	" 23	
53	3	" 7	"	" "	May 7	Malignant.
54	4	" 8	"	" "	Apr. 23	

No.	Age.	Date of Admission.	Residence.	Disease.	Date of Discharge.	Observations.
55	4	Mar. 8	Union	Scarlet Fever	May 7	
56	5	" 8	Braunstone Gate	" "		{ Died March 19. Malignant.
57	4	" 10	Union	" "	Apr. 23	
58	6	" 10	Braunstone Gate	" "		{ Died March 30. Septic poisoning from putrid throat.
59	4	" 10	Union	" "		
60	20	" 12	"	" "	" 23	
61	6	" 14	Wharf Street	" "	" 23	
62	8	" 14	Bradgate Street	" "	" 16	Acute.
63	2½	" 14	" "	" "	" 23	
64	4	" 16	Union	" "	May 7	
65	3	" 19	Borough Hospital	" "	April 9	
66	11	" 25	Rayns Street	" "	May 7	
67	32	" 26	Borough Hospital	Small Pox	" 26	
68	14	" 27	Gower Street	Scarlet Fever	" 7	
69	62	April 8	Lee Street	Erysipelas	" 7	
70	3	" 14	Brunswick Street	Scarlet Fever		Died April 27.
71	13	" 16	New Park Street	" "	May 31	
72	4	" 18	Jewry Wall Street	" "	" 28	
73	3	" 18	" " "	" "	" 28	
74	2	" 19	Court L Sanvy Gate	" "		{ Died April 19. In articulo mortis on admission.
75	14	" 24	High Street	" "	June 4	
76	66	" 25	Joseph Street	Erysipelas		{ Died April 30. Paralysis set in.
77	5	" 30	Britannia Street	Scarlet Fever	" 18	
78	17	May 2	Syston Street	" "		
79	3	" 2	New Park Street	" "	June 4	
80	5	" 2	Andrew Street	" "	" 4	
81	4	" 3	New Park Street	" "	" 4	
82	5	" 3	Buckingham Street	" "	" 9	
83	10	" 7	Andrew Street	" "	" 18	

No.	Age.	Date of Admission.	Residence.	Disease.	Date of Discharge.	Observations.
84	3	May 13	Lee Street	Scarlet Fever	July 2	
85	3	" 13	Union	" "	" 2	
86	12	" 16	Noble Street	" "	June 24	
87	47	" 17	Slater Street	Erysipelas		Died May 31.
88	3	" 17	Noble Street	Scarlet Fever	" 24	
89	9	" 18	Elm Street	" "	July 5	
90	4	" 19	Union	" "	" 2	
91	6	" 19	Chestnut Street	" "	June 18	
92	5	" 19	Union	" "	July 2	
93	5	" 20	Buckingham Street	" "	June 5	
94	8	" 20	Noble Street	" "	" 24	
95	4	" 21	Union	" "	July 2	
96	3	" 24	"	" "	" 16	
97	2	" 24	"	" "	" 16	Very severe.
98	5	" 24	"	" "	" 17	
99	52	" 25	Guthlaxton Street	Erysipelas	June 2	
100	4	" 25	Union	Scarlet Fever	July 16	
101	6	" 25	Pasture Lane	" "	" 9	
102	3	" 25	New Park Street	" "	" 16	
103	22	" 27	Bedford Street	Small Pox		Died June 7. Confluent.
104	5	" 27	Union	Scarlet Fever	" 2	
105	10	" 30	Marquis Street	" "	" 9	
106	8	" 31	Brook Street	" "	" 16	Very severe.
107	7	June 3	Eaton Street	" "		
108		" 2	Free Lane	" "		{ Died June 10. Malignant.
109	19	" 2	Argyle Street	" "	June 14	
110	8	" 2	Free Lane	" "	July 16	
111	4	" 2	Clyde Street	" "	" 16	Malignant.
112	24	" 5	East Street	" "	June 29	

No.	Age.	Date of Admission.	Residence.	Disease.	Date of Discharge.	Observations.
3	3	June 10	Free Lane	Scarlet Fever	July 16	
4	3	" 10	Union	" "	" 16	
5	7	" 11	Brook Street	" "	" 23	
6	4	" 13	New Park Street	" "	" 23	
7	4	" 17	Bedford Street	" "		{ Died July 6. Septicæmia.
8	29	" 18	Sanvy Gate	Erysipelas	June 29	
9	24	" 18	Free Lane	Scarlet Fever	July 30	
10	6	" 18	Hutchinson Street	" "	" 23	
11	7	" 20	Alfred Terrace	" "	" 23	
12	4	" 20	Denman Street	" "	" 30	
13	25	" 23	High Cross Street	" "	" 16	
14	7	" 23	Eaton Street	" "	" 16	
15	4	" 23	Denman Street	" "		
16	2	" 25	George Street	" "		
17	6	" 25	Hutchinson Street	" "	" 10	
18	3	" 27	Neal Street	" "	" 30	
19	1½	" 27	Neal Street	" "	" 16	
20	7	" 27	Eaton Street	" "	" 30	
21	9	" 28	Biddulph Street	" "		{ Died July 12. Malignant.
22	4	" 28	Argyle Street	" "	" 30	
23	3	" 28	Eaton Street	" "		
24	2½	" 28	Wharf Street	" "	" 23	
25	7	" 28	Eaton Street	" "		
26	3	July 1	Argyle Street	" "	" 30	
27	8	" 2	Buckingham Street	" "	Aug. 13	
28	4	" 2	Spencer Street	" "	July 30	
29	6	" 2	Walnut Street	" "	Aug. 13	
30	5	" 4	Eaton Street	" "	" 13	
31	7	" 4	Biddulph Street	" "	" 13	

No.	Age.	Date of Admission.	Residence.	Disease.	Date of Discharge.	Observations.
142	7	July 6	Harrington Street	Scarlet Fever		{ Died July 7. Comatose on admission.
143	5	" 7	Syston Street	" "			{ Died July 7. Dying when admitted.
144	7	" 7	" "	" "	July 23	
145	5	" 7	" "	" "	" 23	
146	2	" 8	Palmerstone Street	" "		{ Died July 11. Malignant.
147	13	" 8	Buckingham Street	" "	Aug. 20	
148	7	" 9	Nelson Place	" "		{ Died July 18. Albuminuria, &c.
149	6	" 10	Buckingham Street	" "	" 20	
150	6	" 12	Lower Laxton Street	" "	" 27	
151	4	" 13	All Saints' Road	" "	" 13	
152	10	" 13	Belgrave Gate	" "	" 27	
153	8	" 13	Wheat Street	" "	" 27	
154	9	" 13	Infirmery	" "	" 15	
155	3	" 13	Buckingham Street	" "	" 13	
156	3	" 14	Upper Mill Street	" "	" 20	
157	10	" 14	Upper Charles Street	" "	" 27	
158	45	" 16	Pasture Lane	Erysipelas	July 24	
159	10	" 18	Catesby Street	Scarlet Fever	Aug. 20	
160	8	" 18	Brook Street	" "	" 27	
161	9	" 18	Archdeacon Lane	" "	" 27	
162	10	" 18	" "	" "	" 27	
163	3	" 18	Royal East Street	" "		Died Aug. 3. Malignant.
164	8	" 20	Wheat Street	" "	" 27	
165	6	" 20	" "	" "	" 27	
166	17	" 20	Belgrave Gate	" "	" 20	
167	6	" 20	Milton Street	" "	Sept. 3	
168	5	" 20	Goodacre Street	" "	" 3	
169	28	" 22	Biddulph Street	" "	" 3	
170	4	" 22	" "	" "	" 3	

Age.	Date of Admis- sion.	Residence.	Disease.	Date of Dis- charge.	Observations.
6	July 23	Wheat Street	Scarlet Fever	Sept. 3	
4	" 23	Royal East Street	" "	" 3	
6	" 25	New Street	" "	" 3	
2	" 26	Framland Street	" "	" 3	
4	" 26	" "	" "	" 3	
8	" 26	Curzon Street	" "	" 3	
5	" 27	Eaton Street	" "	" 3	
6	" 27	Medway Street	" "	" 8	
7	" 27	" "	" "	" 8	
24	" 27	High Street	" "	Aug. 13	
7	" 28	Syston Street	" "	Sept. 8	
6	" 30	Goodacre Street	" "	" 17	
13	Aug. 1	Rutland Street	" "	Aug. 27	
21	" 1	Dorset Street	" "	Sept. 3	
12	" 2	New Lane	" "	Oct. 3	
20	" 3	Infirmary	" "	Sep. 30	
2	" 3	Burley's Lane	" "	" 3	
4	" 4	Syston Street	" "	" 8	
6	" 4	Curzon Street	" "	" 17	
8	" 4	" "	" "	" 17	
2	" 5	Willow Street	" "	" 10	
11	" 5	Stanley Street	" "	" 8	
6	" 5	Lee Street	" "	Oct. 1	
6	" 6	Archdeacon Lane	" "	Sep. 30	
4	" 6	Byron Street	" "	" 17	
28	" 7	Emerald Street	" "	Aug. 20	
4	" 10	St. George Street	" "	Sep. 17	
9	" 11	Burley's Lane	" "	" 17	
2	" 13	Britannia Street	" "	Oct. 1	

No.	Age.	Date of Admission.	Residence.	Disease.	Date of Discharge.	Observations.
200	3	Aug. 14	Alice Street	Scarlet Fever		(Died Aug. 14, a few hours after admission, from comatose convulsions.
201	15	" 14	" "	" "	Sep. 10	
202	3	" 15	Archdeacon Lane	" "	Oct. 1	(Died Aug. 16. Malignant.
203	2	" 15	Grosvenor Street	" "		
204	13	" 15	New Bridge Street	" "	Oct. 1	
205	22	" 16	Welford Road	Erysipelas	Aug. 27	
206	3	" 16	Brook Street	Scarlet Fever	Oct. 1	
207	6	" 16	Graham Street	" "	" 1	
208	28	" 17	Bedford Street	Small Pox	" 28	Confluent.
209	5	" 17	Brook Street	Scarlet Fever	Oct. 1	
210	8	" 17	" "	" "	" 1	
211	28	" 17	Eaton Street	" "	Sep. 17	
212	9	" 18	Brook Street	" "	Oct. 1	
213	2	" 19	Humberstone Gate	" "	" 1	
214	35	" 19	Cardinal Street.	Erysipelas	Sep. 17	
215	12	" 20	Curzon Street.	Scarlet Fever	Oct. 8	
216	13	" 20	New Humberstone	" "	" 1	
217	9	" 20	Grange Lane	" "	Sep. 10	
218	19	" 20	Belgrave Gate	" "	Oct. 1	
219	38	" 20	High Cross Street	Erysipelas	Sept. 3	
220	6	" 22	Eaton Street	Scarlet Fever	Oct. 8	
221	10	" 23	Crystal Street	" "	" 8	
222	4	" 23	Birstall Street	" "	" 8	
223	8	" 23	Short Street	" "	" 8	
224	3	" 25	Brook Street	" "	" 8	
225	5	" 25	" "	" "	" 8	
226	9	" 25	Waterloo Street	" "	" 8	
227	6	" 25	New Brook Street	" "	" 8	

Age.	Date of Admission.	Residence.	Disease.	Date of Discharge.	Observations.
21	Aug. 25	Gopsall Street	Scarlet Fever	Oct. 1	
9	" 25	Gopsall Street	" "	" 1	
8	" 26	Marston Street	" "	" 8	
2	" 26	Spencer Street	" "	" 8	
6	" 27	Benford Street	" "	" 8	
5	" 27	Curzon Street	" "		{ Died Sept. 13. Malignant.
4	" 27	Albion Street	" "	" 23	
9	" 27	St. James Street	" "	" 8	
4	" 29	Friday Street	" "	" 8	
9	" 30	Dover Street	" "	" 15	
3	" 31	Birstall Street	" "		Died Aug. 31.
2	Sept. 2	Metcalf Street	" "	Sep. 19	
5	" 2	Archdeacon Lane	" "	Oct. 8	
5	" 2	Kent Street	" "	" 15	
5	" 2	Guthlaxton Street	" "	" 15	
40	" 5	Bow Bridge Street	Erysipelas	Sep. 17	
12	" 5	Northgate Street	Scarlet Fever	Oct. 22	
6	" 5	" "	" "	" 22	
5	" 5	Spencer Street	" "	" 22	
4½	" 9	Gartree Street	" "		{ Died Sept. 10. Coma- tose on admission.
6	" 9	Upper Kent Street	" "	" 22	
12	" 9	Spencer Street	" "	" 22	
3	" 10	Wheat Street	" "	" 22	
2	" 10	Denman Street	" "	" 15	
5	" 10	Conduit Field Cottages	" "	" 29	
6	" 10	Elm Street	" "	" 22	
3	" 10	Upper Kent Street	" "	" 29	
3	" 10	Benford Street	" "	" 22	
2	" 10	St. James's Place	" "	" 22	

No.	Age.	Date of Admission.	Residence.	Disease.	Date of Discharge.	Observations.
257	4	Sep. 10	Benford Street	Scarlet Fever	Oct. 22	
258	4	" 11	Court B, Willow Street	" "	" 22	
259	2	" 11	" " "	" "		Died Sept. 15. Cephalitis.
260	7	Aug. 30	Conduit Street	" "			Died Sept. 4. Malignant.
261	12	Sep. 11	Slawson Street	" "	" 22	
262	5	" 11	Brook Street	" "	" 22	
263	3	" 12	Jewry Wall Street	" "	" 29	
264	3	" 12	Brook Street	" "	" 22	
265	7	" 12	Jewry Wall Street	" "	" 29	
266	12	" 12	Filbert Street	" "	" 29	
267	14	" 12	Stanley Street	" "	" 29	
268	5	" 12	Filbert Street	" "	" 29	
269	20	" 12	Bedford Street	" "	" 29	
270	5	" 13	Gartree Street	" "		Died Nov. 1. Pneumonia.
271	4	" 13	Bedford Street	" "	" 29	
272	3	" 14	Fleet Street	" "	" 29	
273	12	" 14	Slawson Street	" "	" 29	
274	15	" 14	" "	" "	" 29	
275	5	" 14	Conduit Field Cottages	" "	" 29	
276	18	" 15	Infirmery Square	" "	" 29	
277	9	" 15	Dryden Street	" "	" 29	
278	9	" 15	Brown's Yard	" "	" 29	
279	14	" 15	Palmerstone Street	" "	" 29	
280	18	" 15	" "	Erysipelas	" 26	
281	6	" 15	Lower Grove Street	Scarlet Fever	" 29	
282	2	" 16	Sussex Street	" "	" 29	
283	2	" 16	Fleet Street	" "		Died Sept. 19.
284	5	" 16	Waldon Street	" "		Died Sept. 18.
285	44	" 16	All Saints Road	Erysipelas	Sep. 19	

No.	Age.	Date of Admission.	Residence.	Disease.	Date of Discharge.	Observations.
28	4	Sep. 16	Waldon Street	Scarlet Fever	Oct. 29	
28	12	" 16	Court I, Belgrave Gt.	" "	" 29	
28	12	" 17	{ Desford Industrial School }	Small Pox	" 28	
28	5	" 17	Neal Street	Scarlet Fever	" 29	
28	6	" 17	Kent Street	" "		
28	18	" 19	Stanley Street	" "	Nov. 11	
28	6	" 20	Guthlaxton Street	" "	" 11	
28	4	" 20	Lee Street	" "	" 11	
28	6	" 22	Earl Howe Street	" "	" 17	
28	22	" 22	Melbourne Street	" "	Oct. 29	
28	2	" 22	Syston Street	" "	Nov. 11	
28	5	" 22	Grove Street	" "	" 5	
28	8	" 22	Middle Street	" "	" 11	
28	4	" 22	Nelson Street	" "	" 11	
28	3	" 22	" "	" "	" 11	
28	7	" 23	Middle Street	" "	" 11	
28	9	" 23	Slawson Street	" "	" 11	
28	10	" 23	Fitzroy Street	" "	" 11	
28	33	" 23	Grange Lane	Erysipelas	Oct. 8	
28	16	" 23	Stanley Street	Scarlet Fever	Nov. 11	
28	62	" 24	Union	Erysipelas	Oct. 1	
28	4	" 24	Preston Street	Scarlet Fever	Nov. 19	
28	5	" 24	New Bridge Street	" "	" 11	
28	10	" 26	Britannia Street	" "	" 30	
28	46	" 27	Coventry Street	Erysipelas	Oct. 15	
28	4	" 27	Court A, Belgrave Gt.	Scarlet Fever		Died Oct. 8.
28	4	" 27	Albion Street	" "	Nov. 23	
28	9	" 27	Kent Street	" "	" 19	
28	8	" 27	Archdeacon Lane	" "	" 15	

No.	Age.	Date of Admission.	Residence.	Disease.	Date of Discharge.	Observations.
315	8	Sep. 28	Upper Conduit Street	Scarlet Fever	Nov. 11	
316	8	" 28	Stanley Terrace	" "	" 7	
317	12	" 29	Preston Street	" "	" 15	
318	2	" 29	Albert Street	" "	" 11	
319	2	" 29	Slawson Street	" "	" 11	
320	2	" 30	Highcross Street	" "	" 15	
321	8	" 30	Emerald Street	" "	" 11	
322	2	Oct. 1	Kent Street	" "	" 11	
323	18	" 2	Cobden Street	" "	" 19	
324	7	" 2	Biddulph Street	" "	" 19	
325	5	" 3	The Barracks	" "	" 19	
326	5	" 3	Outram Street	" "	" 19	
327	8	" 3	Stanley Street	" "	" 11	
328	17	" 4	Roslyn Street	" "	" 19	
329	5	" 5	Dover Street	" "	" 19	
330	2	" 5	Nelson Square	" "	" 19	
331	6	" 5	Albion Street	" "	" 19	
332	7	" 7	Porter Street	" "	" 19	
333	5	" 7	Emerald Street	" "	" 19	
334	15	" 7	Roslyn Street	" "	" 19	
335	7	" 8	Gray Street	" "	" 19	
336	7	" 8	Free Lane	" "	" 26	
337	85	" 10	Union	Erysipelas	Oct. 22	
338	8	" 10	Colton Street	Scarlet Fever	Nov. 26	
339	12	" 10	Gordon Street	" "	Dec. 3	
340	4	" 11	St Saviour's Road	" "	Nov. 26	
341	3	" 11	Albert Street	" "	" 26	
342	5	" 12	Spencer Street	" "	" 26	
343	14	" 12	Argyle Street	" "	" 26	

Age.	Date of Admission.	Residence.	Disease.	Date of Discharge.	Observations.
10	Oct. 13	Maxfield Street	Scarlet Fever	Nov. 26	
12	" 13	Birstall Street	" "	" 19	
7	" 15	Gladstone Street	" "	" 30	
7	" 15	Christow Street	" "	" 26	
3	" 16	Caroline Street	Erysipelas	Oct. 22	
39	" 17	Chancery Street	" "	Nov. 21	
36	" 19	Northgate Street	" "	" 7	
10	" 20	Aylestone Park	Scarlet Fever	Dec. 3	
5	" 22	Rutland Street	" "	" 3	
7	" 22	Oxford Street	" "	" 3	
3	" 22	" "	" "	" 3	
4	" 22	Guthlaxton Street	" "	" 3	
13	" 22	Applegate Street	" "	" 3	
7	" 24	Palmerstone Street	Erysipelas	Nov. 15	
11	" 24	Walnut Street	Scarlet Fever	Dec. 3	
8	" 24	" "	" "	" 10	
66	" 25	Benford Street	Erysipelas	Nov. 11	
7	" 25	Ash Street	Scarlet Fever	Dec. 3	
13	" 25	Nichols Street	" "	" 3	
38	" 26	Court A, Northgates	Erysipelas	Oct. 7	
46	" 26	Britannia Street	" "	Nov. 11	
53	" 26	Bedford Street	" "	" 15	
43	" 27	Union	" "	" 17	
7	" 27	Grosvenor Street	Scarlet Fever	Dec. 3	
15	" 29	Brierley Street	Erysipelas	Nov. 15	
13	" 31	Crafton Street	" "	" 17	
60	" 31	Union	" "		Died Nov. 2.
36	" 31	Infirmery	" "		
9	Nov. 1	Upper Kent Street	Scarlet Fever	Dec. 17	

No.	Age.	Date of Admission.	Residence.	Disease.	Date of Discharge.	Observations.
373	5	Nov. 1	Northampton Street	Scarlet Fever	Dec. 10	
374	5	" 5	Underhill Street	" "	" 17	
375	43	" 6	Applegate Street	Erysipelas	Nov. 13	
376	5	" 6	Mill Lane	Scarlet Fever	Dec. 24	
377	10	" 7	Belgrave	" "	" 31	
378	3	" 8	Mill Lane	" "	" 31	
379	47	" 8	Borough Hospital	Erysipelas	Nov. 27	
380	4	" 8	Bedford Street	" "	" 17	
381	4	" 9	Belgrave	Scarlet Fever		Died Dec. 1.
382	6	" 9	"	" "	Dec. 31	
383	4	" 9	"	" "	" 31	
384	8	" 9	Earl Howe Street	" "		
385	32	" 9	Frog Island	Erysipelas	Nov. 27	
386	4	" 12	Yeoman Street	Scarlet Fever		
387	11	" 13	Northampton Street	" "	Dec. 24	
388	5	" 13	Earl Howe Street	" "		
389	5	" 14	Marston Street	" "	" 24	
390	17	" 14	Joseph Street	" "	" 24	
391	2	" 15	Little Holme Street	" "		Died Dec. 1.
392	7	" 15	" " "	" "	" 24	
393	2	" 16	Marston St. Cottages	" "	" 31	
394	6	" 16	Upper Brunswick St.	" "	" 31	
395	4	" 16	Emerald Street	" "	" 17	
396	7	" 16	" "	" "	" 17	
397	15	" 17	Upper John Street	" "	" 31	
398	19	" 17	Luke Street	Erysipelas	Nov. 25	
399	68	" 17	The Hollow	" "	Dec. 3	
400	5	" 18	Bakehouse Lane	Scarlet Fever	Jan. 7	
401	3	" 19	Guthlaxton Street	" "	" 7	

Age.	Date of Admission.	Residence.	Disease.	Date of Discharge.	Observations.
6	Nov. 21	Tebbutt Lane	Scarlet Fever	Dec. 31	
31	" 21	Grove Street	Erysipelas	Jan. 3	
5	" 21	Oak Street	Scarlet Fever		Died Dec. 3.
3	" 21	" "	" "		Died Nov. 27.
7	" 22	Marston Street	" "		
12	" 24	Abbey Lane	" "	" 7	
8	" 26	Bath Lane	" "	" 7	
7	" 26	Dover Street	" "		
10	Dec. 1	Waring Street	" "	" 14	
8	" 1	Mill Lane	" "	" 14	
19	" 1	London Road	" "	Dec. 3	
9	" 3	Northampton Street	" "	" 31	
17	" 3	Melbourne Road	" "	Jan. 14	
6	" 3	Winifred Street	" "	Dec. 31	
20	" 5	Birstall Street	" "	Jan. 14	
5	" 5	Gray Street	" "	" 14	
3	" 6	Slate Street	" "	" 21	
5	" 7	Albert Cottages	" "		Died Dec. 11.
4	" 7	Joseph Street	" "	" 21	
4	" 8	Kent Street	" "	" 17	
5	" 9	Porter Street	" "	" 17	
50	" 10	Union	Erysipelas	" 3	
5	" 12	Outram Street	Scarlet Fever	" 25	
3	" 12	Buckingham Street	" "	" 17	
3	" 12	Eaton Street	" "	" 17	
4	" 15	Nichols Street	" "		
6	" 15	" "	" "		
4	" 15	Fleet Street	" "		
9	" 15	Alexander St. Terrace	Erysipelas	Dec. 31	

No.	Age.	Date of Admission.	Residence.	Disease.	Date of Discharge.	Observations.
431	9	Dec. 17	Andrew Street	Scarlet Fever		
432	21	" 18	Upper Kent Street	Erysipelas		
433	30	" 18	Union	Small Pox		Died Dec. 19. Comatose on admission.
434	28	" 20	"	Scarlet Fever		
435	43	" 20	"	" "		
436	1	" 20	"	" "		
437	1½	" 20	"	" "		
438	10	" 21	Andrew Street	" "		
439	10	" 26	{ Desford Industrial School }	" "		
440	4	" 27	Northampton Street	" "		
441	36	" 27	Framland Street	Erysipelas		
442	5	" 31	Fuller Street	Scarlet Fever		







TABLE OF DEATHS FOR THE QUARTER ENDING 31st DECEMBER, 1881.

DISEASES.	Under 5 years												5 to 14												15 to 24												25 to 34												35 to 44												45 to 54												55 to 64												65 to 74												75 to 84												85 to 94												95 to 104												Total.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																	
CLASS I.—ZYMOTIC DISEASES.																																																																																																																																					
OTHER 1.—MALARIA.																																																																																																																																					
1. Malaria																																																																																																																																					
2. Malaria (intermittent)																																																																																																																																					
3. Malaria (tertiana)																																																																																																																																					
4. Malaria (quarta)																																																																																																																																					
5. Malaria (maligna)																																																																																																																																					
6. Malaria (cerebralis)																																																																																																																																					
7. Malaria (hemorrhagica)																																																																																																																																					
8. Malaria (typhoid fever)																																																																																																																																					
9. Malaria (epidemic)																																																																																																																																					
10. Malaria (chronic)																																																																																																																																					
11. Malaria (acute)																																																																																																																																					
12. Malaria (fatal)																																																																																																																																					
13. Malaria (remittent)																																																																																																																																					
14. Malaria (benign)																																																																																																																																					
15. Malaria (simple)																																																																																																																																					
16. Malaria (complex)																																																																																																																																					
17. Malaria (atypical)																																																																																																																																					
18. Malaria (unclassified)																																																																																																																																					
19. Malaria (other)																																																																																																																																					
20. Malaria (miscellaneous)																																																																																																																																					
21. Malaria (unspecified)																																																																																																																																					
22. Malaria (unclassified)																																																																																																																																					
23. Malaria (unclassified)																																																																																																																																					
24. Malaria (unclassified)																																																																																																																																					
25. Malaria (unclassified)																																																																																																																																					
26. Malaria (unclassified)																																																																																																																																					
27. Malaria (unclassified)																																																																																																																																					
28. Malaria (unclassified)																																																																																																																																					
29. Malaria (unclassified)																																																																																																																																					
30. Malaria (unclassified)																																																																																																																																					
31. Malaria (unclassified)																																																																																																																																					
32. Malaria (unclassified)																																																																																																																																					
33. Malaria (unclassified)																																																																																																																																					
34. Malaria (unclassified)																																																																																																																																					
35. Malaria (unclassified)																																																																																																																																					
36. Malaria (unclassified)																																																																																																																																					
37. Malaria (unclassified)																																																																																																																																					
38. Malaria (unclassified)																																																																																																																																					
39. Malaria (unclassified)																																																																																																																																					
40. Malaria (unclassified)																																																																																																																																					
41. Malaria (unclassified)																																																																																																																																					
42. Malaria (unclassified)																																																																																																																																					
43. Malaria (unclassified)																																																																																																																																					
44. Malaria (unclassified)																																																																																																																																					
45. Malaria (unclassified)																																																																																																																																					
46. Malaria (unclassified)																																																																																																																																					
47. Malaria (unclassified)																																																																																																																																					
48. Malaria (unclassified)																																																																																																																																					
49. Malaria (unclassified)																																																																																																																																					
50. Malaria (unclassified)																																																																																																																																					
51. Malaria (unclassified)																																																																																																																																					
52. Malaria (unclassified)																																																																																																																																					
53. Malaria (unclassified)																																																																																																																																					
54. Malaria (unclassified)																																																																																																																																					
55. Malaria (unclassified)																																																																																																																																					
56. Malaria (unclassified)																																																																																																																																					
57. Malaria (unclassified)																																																																																																																																					
58. Malaria (unclassified)																																																																																																																																					
59. Malaria (unclassified)																																																																																																																																					
60. Malaria (unclassified)																																																																																																																																					
61. Malaria (unclassified)																																																																																																																																					
62. Malaria (unclassified)																																																																																																																																					
63. Malaria (unclassified)																																																																																																																																					
64. Malaria (unclassified)																																																																																																																																					
65. Malaria (unclassified)																																																																																																																																					
66. Malaria (unclassified)																																																																																																																																					
67. Malaria (unclassified)																																																																																																																																					
68. Malaria (unclassified)																																																																																																																																					
69. Malaria (unclassified)																																																																																																																																					
70. Malaria (unclassified)																																																																																																																																					
71. Malaria (unclassified)																																																																																																																																					
72. Malaria (unclassified)																																																																																																																																					
73. Malaria (unclassified)																																																																																																																																					
74. Malaria (unclassified)																																																																																																																																					
75. Malaria (unclassified)																																																																																																																																					
76. Malaria (unclassified)																																																																																																																																					
77. Malaria (unclassified)																																																																																																																																					
78. Malaria (unclassified)																																																																																																																																					
79. Malaria (unclassified)																																																																																																																																					
80. Malaria (unclassified)																																																																																																																																					
81. Malaria (unclassified)																																																																																																																																					
82. Malaria (unclassified)																																																																																																																																					
83. Malaria (unclassified)																																																																																																																																					
84. Malaria (unclassified)																																																																																																																																					
85. Malaria (unclassified)																																																																																																																																					
86. Malaria (unclassified)																																																																																																																																					
87. Malaria (unclassified)																																																																																																																																					
88. Malaria (unclassified)																																																																																																																																					
89. Malaria (unclassified)																																																																																																																																					
90. Malaria (unclassified)																																																																																																																																					
91. Malaria (unclassified)																																																																																																																																					
92. Malaria (unclassified)																																																																																																																																					
93. Malaria (unclassified)																																																																																																																																					
94. Malaria (unclassified)																																																																																																																																					
95. Malaria (unclassified)																																																																																																																																					
96. Malaria (unclassified)																																																																																																																																					
97. Malaria (unclassified)																																																																																																																																					
98. Malaria (unclassified)																																																																																																																																					
99. Malaria (unclassified)																																																																																																																																					
100. Malaria (unclassified)																																																																																																																																					

DISEASES.	Under 5 years												5 to 14												15 to 24												25 to 34												35 to 44												45 to 54												55 to 64												65 to 74												75 to 84												85 to 94												95 to 104												Total.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																	
CLASS II.—QUALITATIVE DISEASES.																																																																																																																																					
OTHER 1.—DIARRHEIC.																																																																																																																																					
1. Diarrhea																																																																																																																																					
2. Cholera																																																																																																																																					
3. Dysentery																																																																																																																																					
4. Typhoid																																																																																																																																					
5. Typhus																																																																																																																																					
6. Typhoid fever																																																																																																																																					
7. Typhoid (epidemic)																																																																																																																																					
8. Typhoid (simple)																																																																																																																																					
9. Typhoid (malignant)																																																																																																																																					
10. Typhoid (atypical)																																																																																																																																					
11. Typhoid (unclassified)																																																																																																																																					
12. Typhoid (unclassified)																																																																																																																																					
13. Typhoid (unclassified)																																																																																																																																					
14. Typhoid (unclassified)																																																																																																																																					
15. Typhoid (unclassified)																																																																																																																																					
16. Typhoid (unclassified)																																																																																																																																					
17. Typhoid (unclassified)																																																																																																																																					
18. Typhoid (unclassified)																																																																																																																																					
19. Typhoid (unclassified)																																																																																																																																					
20. Typhoid (unclassified)																																																																																																																																					
21. Typhoid (unclassified)																																																																																																																																					
22. Typhoid (unclassified)																																																																																																																																					
23. Typhoid (unclassified)																																																																																																																																					
24. Typhoid (unclassified)																																																																																																																																					
25. Typhoid (unclassified)																																																																																																																																					
26. Typhoid (unclassified)																																																																																																																																					
27. Typhoid (unclassified)																																																																																																																																					
28. Typhoid (unclassified)																																																																																																																																					
29. Typhoid (unclassified)																																																																																																																																					
30. Typhoid (unclassified)																																																																																																																																					
31. Typhoid (unclassified)																																																																																																																																					
32. Typhoid (unclassified)																																																																																																																																					
33. Typhoid (unclassified)																																																																																																																																					
34. Typhoid (unclassified)																																																																																																																																					
35. Typhoid (unclassified)																																																																																																																																					
36. Typhoid (unclassified)																																																																																																																																					
37. Typhoid (unclassified)																																																																																																																																					
38. Typhoid (unclassified)																																																																																																																																					
39. Typhoid (unclassified)																																																																																																																																					
40. Typhoid (unclassified)																																																																																																																																					
41. Typhoid (unclassified)																																																																																																																																					
42. Typhoid (unclassified)																																																																																																																																					
43. Typhoid (unclassified)																																																																																																																																					
44. Typhoid (unclassified)																																																																																																																																					
45. Typhoid (unclassified)																																																																																																																																					
46. Typhoid (unclassified)																																																																																																																																					
47. Typhoid (unclassified)																																																																																																																																					
48. Typhoid (unclassified)																																																																																																																																					
49. Typhoid (unclassified)																																																																																																																																					
50. Typhoid (unclassified)																																																																																																																																					
51. Typhoid (unclassified)																																																																																																																																					
52. Typhoid (unclassified)																																																																																																																																					
53. Typhoid (unclassified)																																																																																																																																					
54. Typhoid (unclassified)																																																																																																																																					
55. Typhoid (unclassified)																																																																																																																																					
56. Typhoid (unclassified)																																																																																																																																					
57. Typhoid (unclassified)																																																																																																																																					
58. Typhoid (unclassified)																																																																																																																																					
59. Typhoid (unclassified)																																																																																																																																					
60. Typhoid (unclassified)																																																																																																																																					
61. Typhoid (unclassified)																																																																																																																																					
62. Typhoid (unclassified)																																																																																																																																					
63. Typhoid (unclassified)																																																																																																																																					
64. Typhoid (unclassified)																																																																																																																																					
65. Typhoid (unclassified)																																																																																																																																					
66. Typhoid (unclassified)																																																																																																																																					
67. Typhoid (unclassified)																																																																																																																																					
68. Typhoid (unclassified)																																																																																																																																					
69. Typhoid (unclassified)																																																																																																																																					
70. Typhoid (unclassified)																																																																																																																																					
71. Typhoid (unclassified)																																																																																																																																					
72. Typhoid (unclassified)																																																																																																																																					
73. Typhoid (unclassified)																																																																																																																																					
74. Typhoid (unclassified)																																																																																																																																					
75. Typhoid (unclassified)																																																																																																																																					
76. Typhoid (unclassified)																																																																																																																																					
77. Typhoid (unclassified)																																																																																																																																					
78. Typhoid (unclassified)																																																																																																																																					
79. Typhoid (unclassified)																																																																																																																																					
80. Typhoid (unclassified)																																																																																																																																					
81. Typhoid (unclassified)																																																																																																																																					
82. Typhoid (unclassified)																																																																																																																																					
83. Typhoid (unclassified)																																																																																																																																					
84. Typhoid (unclassified)																																																																																																																																					
85. Typhoid (unclassified)																																																																																																																																					
86. Typhoid (unclassified)																																																																																																																																					
87. Typhoid (unclassified)																																																																																																																																					
88. Typhoid (unclassified)																																																																																																																																					
89. Typhoid (unclassified)																																																																																																																																					
90. Typhoid (unclassified)																																																																																																																																					
91. Typhoid (unclassified)																																																																																																																																					
92. Typhoid (unclassified)																																																																																																																																					
93. Typhoid (unclassified)																																																																																																																																					
94. Typhoid (unclassified)																																																																																																																																					
95. Typhoid (unclassified)																																																																																																																																					
96. Typhoid (unclassified)																																																																																																																																					
97. Typhoid (unclassified)																																																																																																																																					
98. Typhoid (unclassified)																																																																																																																																					
99. Typhoid (unclassified)																																																																																																																																					
100. Typhoid (unclassified)																																																																																																																																					

Under 5 years 5 to 14 15 to 24 25 to 34 35 to 44 45 to 54 55 to 64 65 to 74 75 to 84 85 to 94 95 to 104

Under 5 years 5 to 14 15 to 24 25 to 34 35 to 44 45 to 54 55 to 64 65 to 74 75 to 84 85 to 94 95 to 104





MAP OF
LEICESTER
IN
1881.



The RED Marks indicate the localities where Deaths from
Scarlat fever occurred. (1857).
The BLUE Marks indicate the localities where Deaths from
Typhoid fever occurred. (1851).

