

Contributors

Scunthorpe (England). Local Board of Health.

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for 2nd year 1894

To the

Chairman of the Urban District Council of
Scunthorpe.

Sir,

Every Medical Officer of Health appointed under Order of the Local Government Board is required by Art. 18, sec 14 of that Board's general Order dated March 1891 to make an annual report on the health of the District under his superintendance. This report is to be for the year ending Dec: 31st, & article 18 of the above Order prescribes the minimums of subjects it is to consist of.

I have now the honour to submit such a report for the year which ended on Dec: 31st last, & although it is the fourth of its kind, it is the first which it is my duty to present since the Local Government Act of 1894 came into force, by which the Local Board over which you presided has been changed to an Urban District Council.

I begin with an account of the diseases present within the district and the measures taken to prevent their spreading.

Scarlatina has prevailed somewhat extensively during the year. To Dec: 31st 145 notifications were received. These referred to 144 cases, one of which was reported by two doctors independently of each other. Other cases which were not reported also occurred, & of such I met with several during my visits of enquiry. Evidently the disease appears to have run the same mild course, as in the preceding year. Only 3 deaths are ascribed to it in the death returns, & thus the mortality reckoned on the reported cases was 2.06 per cent. — My reports for the years 1891 & 1892 mention the occurrence of a few cases of scarlatina in those years. In 1893 a few cases were reported from April to June. Then from Sept: on through that year a succession of cases followed, & has continued right through last year. The following shows the number of notifications received during each month of the year:

January	7	April	8	July	5	October	26
February	7	May	14	August	14	November	11
March	8	June	10	September	25	December	11

The schools closed for the summer holiday from July 27th to Aug: 27th. From July 1st to July 26th 2 cases were reported, whereas from July 27th to Aug: 26th there were 19 cases. Taking equal periods — from June 27th to July 26th there were

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4 cases, whilst from July 27th to Aug 26th there were 12. From Aug 27th to Aug 31st 5 cases were notified, & these most probably received infection before Aug 27th, this shows that the disease was extending in August prior to & independently of school attendance.

For comparison with the preceding list, giving the number of notifications received monthly, I now add one with the corresponding figures for 1893:

January 0,	April 2,	July 0,	October 19,
February 0,	May 3,	August 0,	November 18,
March 0,	June 1,	September 17,	December 5.

It will be seen that the greatest number of cases appears to have occurred in corresponding periods of these years, so however that 1894 was in this respect ahead of 1893 by a month. It has been observed that scarlatina has a tendency to attain maximum prevalence about the months of September & October, & it is, no doubt, this tendency that ^{that} great increase in numbers, above referred to, is due.

About Sept. 22nd the Rev. B. Stenhead told me that the school attendance had declined considerably on account of scarlatina, & asked me, if I thought the school should be closed. Finding that although there was marked falling off in some of the standards yet on the whole there was a fair attendance, & knowing also that the disease had been spreading during the holidays, I thought the better plan would be to try first what a close watch at the schools could do. For this purpose I made weekly inspections of the scholars, & these appeared to have a good result, at any rate no considerable decline took place after this, & I was able after Nov. 5th to discontinue my visits. Whilst making some of these inspections, I had occasion to advise the exclusion of a few children, who were apparently ill, until they could produce medical certificates stating their freedom from infection. - On one occasion my attention was directed to a child whose absence from school had been noted, & was said to have been due to sore throat. There had been no medical attendance, & I therefore sent her home & later followed her, to find that previous to her illness a boy had had scarlatina in the house, & though but recently recovered was allowed to go to work at Conesby. I requested that he should be kept at home, & pointed out that there was a penalty attached to exposing persons in public whilst in an infectious condition. Next day I saw the boy. He was feeling freely, & was ordered to be kept at home.

In the boy's department I found a boy who had been away from school on account of illness. His legs & arms were swelling. He was sent home. When I called at his home later, I found there had been another case of illness in the family previously which the mother thought was measles, there could however be no doubt as to its real nature. School attendance in both these cases was forbidden from both houses. -

On January 25th W. Couldrey sought an interview with me. He told me that scarlatina had broken out in a house where two of the school-teachers lodged. We forthwith

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The following table gives the number of cases reported in each week during the year 1892:

January 0	April 2	July 3	October 17
February 0	May 3	August 0	November 2
March 0	June 1	September 11	December 2

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The following table gives the number of cases reported in each week during the year 1892:

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March 0	June 1	September 11	December 2

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visited the house together. Finding that the infection was not brought into the house by either of the teachers, I advised their immediate removal to other lodgings, if possible where there were no children, and that they should remain away from school until such time as their own escape from infection should be assured. I also recommended that their clothing should receive such disinfection, as would be given by free exposure to air, & other means such as were available in the absence of any disinfecting apparatus. This was done, & after sufficient time these ladies were allowed to return to their duties. - Lists of infected homes were also furnished to the schools, to enable the teachers to know where disease existed, & whence children should be refused admission. Such were the measures taken to prevent the schools from becoming a centre of infection. - As to the measures taken to prevent the spreading generally of the disease, my report for 1893 gives an account of them, & I need not here repeat it. I am sorry to say these measures were no more successful than in the previous year. In order to stamp out any infectious disease, early & thorough measures alone are likely to succeed. They also enable the medical officer of health to control the sources of infection, & thus give attention to points which must remain obscure, so long as all known sources are not effectually dealt with, as they become recognized. If the figures given in the monthly lists of notifications for the last 2 years be examined, I think it will be seen that there were periods when the decline to very small numbers, notably 5 in Dec. 1893 & also July 1894, warrant me in assuming that the disease might very readily have been stamped out, had the means of doing so been at work in your district, I refer to isolation in hospital, disinfection of bedding & clothing in a suitable apparatus, & disinfection of houses. As in 1893 so in last year, I found the mildness of the cases tended to make people careless, also that very few realized their duties, under the clauses of the Pub. Health Act referring to infection, & as to notification. This matter I had to bring before the Local Board as you will remember, & I was then authorized to draw up information to be printed & published by posters & handbills, this has at any rate had the result of causing a few householders to bring verbal notifications.

Diphtheria was notified 17 times, & one death was registered from this cause. The two first cases notified occurred on Feb 12th & 13th (one was the fatal one). There can be no doubt, I think that the disease ^{here} was imported, as the first patient fell ill very soon after her return home from Grimstey. The precautions here taken were good, as the house afforded room for the purpose, still isolation could not have been complete, as it seldom can be under any system of home-nursing, & hence the occurrence of the next case 16 days later. The remaining cases occurred as follows: March 1 case in Robert Street; June - 4, 1 in Chapel Street; 2 in one family in High Street; 1 in Barton Terrace, July 1 case in Cross Street; Aug - 1 in Queen Street; Sept - 1 in Princes Street; Oct - 2 in High Street.

...the house together ... the infection was not brought into the house by ...
...of the teachers ... immediate removal to their classrooms ...
...where there were no children ... they should remain away from school ...
...each week time as there was no other form of infection should be avoided ...
...commented that their clothing should be washed ... each day ...
...given by the experiment to see ... other means such as more ventilation in the school ...
...and disinfectants of apparatus ... the same time ...
...allowed to return to their schools ...
...to create the teacher to have more business ...
...placed a barrier ...
...a series of experiments ... the C ...
...disease ... 1893 ...
...to stop ...
...not especially ...
...with ...
...1893 ...
...leading ...
...distinct ...
...suitable apparatus ...
...the ...
...their ...
...independent ...
...I was then ...
...Kendall ...
...order ...
...Diphtheria ...
...The ...
...There can be no ...
...fall ...
...good ...
...as it ...
...case ...
...line ...
...now ...

Nov? 1 each in North Street + Green's Terrace; April - 3 cases, 2 in one family in Cemetery Road, + one in Santon Terrace.

Erysipelas also has been present in the district, + 9 cases were notified; one man who had two attacks in rather over a month, ~~this~~ accounting for 2 notifications. In this man's case the disease followed on an abscess. In another case I was informed that the patient had previously had 4 or 5 attacks, apparently not due to any preceding injury. Time + place of the occurrence of these cases was as follows: Feb. - 1 case in Grosby Road; Mch - 1 in Ravensdale Street; July - 1 in Chapel St, 1 in Grosby Road; Aug - 1 in Grosby Road (same person as last), + 1 in Manley St; Sept? - 1 in Manley St; 1 in Sutton's Row; Dec? - 1 in High St.

Whooping Cough appears also to have been present in your district, but not being notifiable, + having no other information regarding the matter, I cannot say, if it prevailed extensively, though I think it did not. Three deaths however I find are attributed to it.

In connexion with the increase in the number of cases of Diphtheria during the past as compared with the previous year, I must observe that I find it somewhat difficult to explain. There has been no corresponding falling off in the general sanitary condition of the district. The cases occurred in different parts of the district. I was unable to trace any direct connexion between them. Two facts however must not be lost sight of. The year has been one of rather low temperatures, & I should say, quite up to the average in the matter of rainfall. Further (keeping in mind that sore throat, in appearance often quite indistinguishable from that seen in Diphtheria, is also a marked symptom in Scarlatina) that Scarlatina was present in the district. The latter circumstance may possibly explain this apparent increase in Diphtheria to some extent, whilst the former may have been an active factor in its production.

In rendering account of the sanitary state of your district generally, I shall do best to show what has been done to remove dangers either actually present, or threatened. And first I have to mention an important piece of work in the way of sewerage. Thebeck, which received the overflow from the Grosby sewage at the weir-pond in Frodingham Road, + passing by means of a culvert under that road to the back of the property on the south-side of High Street, was in such a condition as to be a dangerous nuisance. By order of the Local Board glazed earthen-ware pipes, 18, 20, 24 inches in diameter were laid its whole length through the town, man-holes having been provided at every change in direction, + in this way 930 yards of new sewerage have been added. Into this main the sewage from the new parts of the town so far as they lie beyond the site of the old weir-pond (now filled up) discharges, + along its length behind High Street, junctions have been provided to enable the property-holders on the south side to connect their drains with it. The fall from this side of the street into the old main was bad, so that the drains there not unfrequently got stopped up.

It is not a true case of ...

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Moreover, during heavy thunder-showers, such as are experienced during the summer months, it was observed, occasionally, that the quantity of water passing down the main in High Street was too great to be removed by the old main alone. The water having forced the gully-traps would then course down the street itself & convert it into a veritable sewer, this should under present arrangements not be seen again.

In former reports I have spoken of the water-supply as being derived from surface wells; by reports of analyses, I showed that it was of varying purity, & in some cases unmistakably polluted; I have also had to call attention to cases of gross pollution such as required no analysis for its detection. During the past year only one such fouling of well water has come to my notice, & was due to blocking of a drain, I need not, however, do more than point out that danger from this cause has therefore ^{not} ceased to exist. Under the Local Board steps have been taken with the object of obtaining a public supply of pure water. For purposes of trial a bore was ordered to be made on the next range of high-ground to the east of Scunthorpe. The water flowing from this bore-hole was submitted to Prof. Wanklyn for analysis, as was also another sample from a beck in the same neighbourhood. Both were reported on favourably. I myself analysed a sample, which I obtained from the bore-hole, & found that though rather hard, it was a water organically pure. If a sufficient supply from this source is attainable, it is to be hoped that the benefits of pure water & a seasonably safe supply may soon be conferred on the community.

During my periodical inspections of the district, or also others made as circumstances required them, the following matters were noted & regularly brought before the Local Board:

1. Defective & filthy privies & ashpits were noticed at Guinness, & also on several places in High Street.
 2. A house without drainage, & near the door of which was a pool of filthy fluid, was seen at Guinness.
 3. Overflowing gully-traps were found on premises in High Street, Princess Street, Wilson Street & Manley Street.
 4. Untapped drains were met with in King Street & Sutton's Terrace. Here the so-called bells had been removed. It would be a good thing, if the use of bell-traps could be prohibited, as best they afford very poor security against escape of gases.
 5. Figs kept in a filthy condition & so as to be a nuisance were seen on several properties in High Street & Manley Street.
 6. Figs kept within the limits permitted by the bye-laws were found in Francis Street.
 7. Yards in a filthy condition were seen in High Street & Frodingham Road.
 8. A badly paved yard allowing pools of stagnant water to form was met with in High Street.
 9. The roadway in Princess Street was found in a filthy condition with large pools of water.
 10. Manus or impurities stored was found on some premises in High Street & Robert Street.
 11. A house in a filthy condition was seen in Princess Street.
- All these matters were considered by the Local Board, & have been dealt with according to their views.

The slaughter-houses, five in number, were regularly inspected & appeared generally to be better kept than formerly. I am informed that the public slaughter house in the market yard is more generally used than before, this practice, if it became to be adopted by all the butchers in the place, would certainly constitute a great advance in sanitary improvement. A complaint of effluvia nuisance reached your officers from the neighbourhood of a fishmonger's premises in Crosby Road & Park Street. This was found to arise from a copper in which fish refuse had been boiled down. The fishmonger was communicated with & a plan suggested, by which all vapours arising during boiling, should be carried into the flue. This was done, & we have heard of no further complaints.

The butcheries, three in number were inspected. The one in Crosby Road was found to be in a most unsatisfactory condition. It was constructed by adding to the back of a small back room of a cottage tenement a good sized brick oven. The only rays of daylight came through an opening in one side of the ceiling above, used for hoisting flour bags into the chamber for storage. The window in this chamber was ill-constructed to act as a ventilator, & insufficient either for this or the admission of light. The air near the oven was most oppressive & produced a feeling of faintness. To have this state of things remedied I requested the tenant to communicate with his landlord & lay before him the changes & improvements I suggested. These were agreed to & carried out without having to be brought before the Local Board.

Five workshops were inspected during the year, all were found in a fairly satisfactory condition, & providing sufficient air space for the hands employed therein. In the case of one of these, a tailor's workshop, an application, or notice of intention, to open had been sent to H. M.'s Inspector & from him was passed on to me. I visited the place, & found it to comply with the requirements of the case, & reported so in my book.

The market was also visited periodically, & the exhibits inspected, all were of a satisfactory nature.

In July I recommended that all drains & sewers should be properly flushed, & all the pails & boxes of the closets thoroughly cleaned, & disinfectants placed in them. To do this appears to be an old practice in your district, & I consider it a very useful one. Your Inspector reported to me that he had superintended the doing of it.

I was instructed in April to inspect a building site in West Street & report as to the erection of piggeries for 10 houses which were to be built there. This I did & furnished a written report to the building committee. The recommendations therein made were adopted.

Your Inspector has furnished me with the accompanying statement of work done in his department. Part of this work refers to the earlier months of the year a time when Mr. John Holt, by whose death your district has lost the services of a faithful, zealous & able servant, was still Inspector & Surveyor.

The following is a list of the names of the persons who were present at the meeting held on the 1st of May 1861. The names are arranged in the order in which they were called upon to speak. The names are as follows: -

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The following is an abstract of the work done in the Inspector's Department:—

Inspections:

Ordinary	2300
Special, on complaints &c	12
Of 5 slaughter houses	60
Of the fishmonger's premises	12
Of six workshops	6
Of houses completed for occupation	12
Of articles of food	24
During the progress of the making of the new sewer	154
To superintend the clearing of the outfall of sewer	
Clerk's orders served	32
" " posted	16
Letters written	30
Plans of Dwelling Houses —	
approved	54
returned for amendment	6
rejected	1
" " other buildings — approved	12

Nuisances (reported & abated): —

From drains	20
" privies & ashpits	22
" defective pails & boxes to closets	10
" accumulations of manure &c	12
" house in filthy condition	1
" polluted wells	2
" yard in bad condition	1
" roadway in filthy & wet condition	1
" pig-keeping	5
" smoke	1

Walter Holt.

Inspector & Surveyor.

The following is an abstract of the work done in the Hospital Department

Inspection:

1000	Abstract
12	Abstract, on complaints re
10	of 2 cases of disease
12	of the pulmonary system
5	of the respiratory
12	of cases reported for treatment
24	of cases of fever
	during the progress of the treatment
124	of the new cases
	To ascertain the cause of
20	the outbreak of fever
32	which were treated
16	of the
30	of the
	of the
37	of the
5	of the
1	of the
10	of the

Business (written & verbal):

20	of the
22	of the
10	of the
12	of the
1	of the
2	of the
1	of the
1	of the
1	of the
1	of the
1	of the
1	of the

Walter White
Inspector & Surgeon

The estimated Area of your District, according to the valuation list is 1041 acres (disregarding fractions of an acre). of this the tides of the Trent cover 11 acres, + roads 19, leaving 1011. The number of inhabited houses was found to be 210

The Population to the middle of 1894 I estimated at 4130. The Births registered during the year was 196; of these 93 were boys + 103 girls; the Deaths during the same time were 60; males 28, females 32. The increase by births over deaths was 136. Of infants under a year old 28 died. — The Birth Rate obtained from the foregoing figures was 47.4 for the year, + the Death Rate 14.5 per 1000 of inhabitants. The infantile mortality (number of deaths to 100 births) was 14.3%

To compare the past with the years preceding it the following will serve:—

Year	Births	Birth Rate	Deaths	Death Rate	Population
1891	140	39.2	65	18.2	3512
—2	154	40.5	45	11.8	3794
—3	170	43.2	61	15.5	3929
—4	196	47.4	60	14.5	4130

As stated in former reports, the number of births continues to increase, + with it the birth rate, so however that last year has witnessed the greatest increase since 1891. In 1892, the gain on 1891 was 10%, whilst in 1893 it was 10.4% + in 1894 as much as 15.3% on each preceding year. If the largeness of the birth rate is an index of prosperity, your district should not have much to complain of, at any rate it should largely share in that happiness which the Psalmist declared to belong to those blest with a numerous progeny. — The largeness of the birth rate has doubtless been in operation for a considerable time, hence Scunthorpe will have a large part of its inhabitants at those ^{age} periods in which the death rate is naturally low, + this will have a tendency to depress the general death rate, making it appear more favourable than in places where like conditions do not obtain. — I also compare the 4 last years with each other thus:—

Year	Ages in periods of years						Mortality of children under age of 100 births
	under 1yr	1 and .5	5 and .15	15 and .25	25 and .65	65 + and	
1891	27	5	6	3	14	10	19.3
—92	26	6	0	2	9	2	16.9
—93	22	16	0	5	11	7	12.9
—94	28	11	1	0	15	5	14.3

From this it appears that although a larger number of children under 1 year of age died, yet the infantile rate of mortality, was lower than in '91 + '92, but somewhat higher than '93. Enquiring into the cause of these deaths, I find that diseases of the respiratory organs account for or contribute

The present state of your business according to the returns for 1891
 and comparing them with those of the year 1890. It is to be seen that
 the number of orders has increased from 214 to 219
 and the value of the orders from £10,100 to £10,500. The number of
 orders is therefore 10% higher than in 1890 and the value of the
 orders is 5% higher. The number of orders is therefore 10% higher
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Year	Orders	Value	Profit	Expenses	Net Profit
1890	214	10,100	1,000	1,000	0
1891	219	10,500	1,050	1,050	0

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towards 19 of them. The majority of these deaths were registered, as due, to Broncho-Pneumonia + Bronchitis,

 & the actual number is just double of the highest of the three preceding years; the figures are:

 91 - 6; 92 - 3; 93 - 2; 94 - 12. The cause of this increased mortality, ^{from these diseases} is doubtless to be

 found in the coldness + dampness of last year. - Examination of table A which accompanies

 this report shows that 2 deaths from Scarlatina, 1 from Diphtheria + 3 from Whooping Cough

 were of children under 5 years of age, they all actually come within the group, 1 under 5 years.

 The remaining death from Scarlatina was ^{that} of a girl 14 years old. - Lastly that Influenza

 is credited with a death, the return being: "Influenza; Pneumonia"; from this it appears that

 this disease is not yet quite extinct in your district.

Accompanying this report are the two tables, A + B required by the Local Government

 Board, also a list of the Scarlatina notifications in form of a table. I also append a table

 showing the rainfall for the year, which I owe to the kindness of Mr. Atkinson, C.E. of Brigg,

 who supplied me with its original; likewise some data as to temperature of the year

 with which were very kindly prepared + given to me by the Rev. J. Rowley, of Scunthorpe.

 I have the honour to be

February 4th 1895.

Your obedient servant
 M. R. J. Behrendt.
 M. O. H.

Rainfall in 1894				No. of days with "or more fall.
Month	Gr. with inches	Greatest fall in 24 hrs inches	Date	
Jan	1.59	.34	14 th	19
Feb	2.76	.56	10 th	15
Mar	1.04	.30	28 th	8
Apr	1.25	.46	12 th	11
May	1.13	.24	26 th	12
June	3.27	.82	4 th	13
July	2.41	.43	22 nd	13
Aug	2.73	.38	8 th	15
Sept	.91	.31	8 th	4
Oct	4.10	.97	20 th	24
Nov	1.71	.82	12 th	12
Dec.	2.11	.37	14 th	21
Total	25.06			167

Temperature in 1894	
Mean shade for year	47.2° F
Highest " (in July)	76.3° "
Lowest " (in Feb)	20.1° "
Hottest month - July	} 62.1°
mean shade &c.	
Colest month - Feb	} 36.8°
mean s. &c.	

The highest + lowest barometric

 readings taken during the year were

 respectively - 30.622 in + 28.961 in

Scunthorpe

The amount of the bills was reported in the month of June. The amount of the bills was reported in the month of June. The amount of the bills was reported in the month of June.

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Baltimore in 1855		Baltimore in 1854	
100	100	100	100
95	95	95	95
90	90	90	90
85	85	85	85
80	80	80	80
75	75	75	75
70	70	70	70
65	65	65	65
60	60	60	60
55	55	55	55
50	50	50	50
45	45	45	45
40	40	40	40
35	35	35	35
30	30	30	30
25	25	25	25
20	20	20	20
15	15	15	15
10	10	10	10
5	5	5	5
0	0	0	0

Scarlatina Notifications, classified according to localities, giving dates &c.

Name of Street.	No	When notified	number of cases	name & age	Remarks
Santon Ter.	36	Jan 2 nd	2	F. H. + R. H.	a case here Dec. 24 th 1893
" "	5	Feb 19 th	1	A. K.	
" "	8	Apr 7 th	1	M. P. S. 6 yrs	
" "	7	May 5 th	2	M. C. 4 yrs; E. C. 14 yrs	E. C. ill Apr. 28 th ; M. C. May 3 rd
" "	25	Oct 22 nd	1	A. E. 7 yrs.	Ill Oct. 17 th
Queen Str.	—	Jan 12 th	2	M. W. 8 yrs; G. N. 4 yrs.	M. W. ill Jan 9 th .
" "	—	Apr. 24		A. S. 4 yrs.	Case here Dec 5 th 1893
High "	C.C	Jan 11 th	1	P. H. 5 yrs.	
" "	—	May 29 th	2	K. W. 15 yrs. M. W. 5 yrs.	A boy ill here 5 days before.
" "	—	June 14 th		E. F. A. 4 yrs.	same yard as last cases.
" "	—	Sept 22 nd & 23 rd	2	J. G. 4 yrs, A. D. G. adult.	J. G. 3 yrs ill before others
" "	—	" 15 th	1	G. D. 3 yrs.	Sunday school 9 th . Nat. Sch. 11 th
" "	22	Oct 4 th	1	C. D. 2 yrs.	
Trafford "	—	Jan 16 th	1	E. D. 9 yrs	
" "	51	Feb. 19 th	1	J. F. 6 yrs	
" "	53	Apr. 5 th	1	F. F. 6 yrs	
" "	24	Sep 15 th	1	B. H. 7 yrs.	
Frimingham R?	5	Jan 26 th	1	A. S. 12 yrs	2 School Teachers lived here.
" "	—	Oct. 2 nd	1	M. R. adult.	servant of medical man.
Sutton's Row	—	Apr 3 rd	1	A. J. G. 4 yrs	Taken Mch 31 st
Ravendale Str.	—	Nov 27 th	1	M. H. 4 yrs.	Infection from Crosby R?
King "	—	May 6 th	1	G. R. 6 yrs	
" "	13	June 29 th	2	H. K. 10 yrs; G. K. 12 yrs.	H. K. ill 25 th ; G. K. 29 th
Oswald "	8	Feb 28 th	1	L. F. 13 "	Day service at 5 Frod. R?
" "	5	Nov 20 th	1	E. C. 3 yrs.	
Chapel "	15	Feb 10 th	1	E. S. F. 4 yrs.	
" "	12	Jun 30 th	1	R. G. H. 4 yrs.	
" "	3	July 27 th	2	K. S. D. 12 yrs; G. S. D. 9 yrs.	W. ill 26 th ; G. 25 th
" "	13	Aug 23 rd	1	O. D. 5 yrs.	
Mary "	—	Feb 19 th	1	H. G. 8 yrs.	
" "	24	Mch 5 th	1	R. K. 3 yrs.	M. K. ill here Mch 2 nd no med. attend.
" "	4	Apr 5 th	1	Mrs. C.	Ill Mch 31 st
" "	7	May 5 th	1	J. G. adult.	
" "	12	Sep 20 th	1	C. D. 3 yrs.	
" "	14	Oct 4 th & 10 th	2	J. N. R. 4 yrs; E. R. 2 1/2 yrs.	
" "	"	Nov 13 th	1	G. P. 3 yrs.	Went to lodge at 14.

Cartolina Moltis...

Nome di Carta	No. di Carta	Descrizione	Quantità
Cartolina No. 1	1	...	1
Cartolina No. 2	2	...	2
Cartolina No. 3	3	...	3
Cartolina No. 4	4	...	4
Cartolina No. 5	5	...	5
Cartolina No. 6	6	...	6
Cartolina No. 7	7	...	7
Cartolina No. 8	8	...	8
Cartolina No. 9	9	...	9
Cartolina No. 10	10	...	10
Cartolina No. 11	11	...	11
Cartolina No. 12	12	...	12
Cartolina No. 13	13	...	13
Cartolina No. 14	14	...	14
Cartolina No. 15	15	...	15
Cartolina No. 16	16	...	16
Cartolina No. 17	17	...	17
Cartolina No. 18	18	...	18
Cartolina No. 19	19	...	19
Cartolina No. 20	20	...	20
Cartolina No. 21	21	...	21
Cartolina No. 22	22	...	22
Cartolina No. 23	23	...	23
Cartolina No. 24	24	...	24
Cartolina No. 25	25	...	25
Cartolina No. 26	26	...	26
Cartolina No. 27	27	...	27
Cartolina No. 28	28	...	28
Cartolina No. 29	29	...	29
Cartolina No. 30	30	...	30

Scarlatina (cont?)

Name of Street	No	When nosd	Number of cases	Name & age	Remarks
Gurnell Str.	6	Nov. 25 th & 26 th	3	R.K. 6 1/2 yrs. M. 5 1/2 yrs. A.K. 4 yrs. T. M. K.	
Robert "	11	May 2 nd	1	F.B. 3 yrs	
" "	13	" 18	1	G.K. 1 2/3 yrs.	Played with F.B. at No 11.
" "	—	Oct. 22 nd	1	C.B. 10 yrs.	
Princes Str.	—	May 24 th	1	A.F. 7 "	
" "	—	" "	1	G.W. 14 "	
" "	—	July 23 rd	1	S.A.C. 10 mo	
" "	21	" 26 th	1	H.S.D. 2 yrs.	
" "	18	June 13 th } + Oct. 22 nd }	2	G.F. 8 yrs (girl), G.F. 12 yrs. boy.	Boy went to Frat. School.
" "	15	Dec 12	1	A.B. 7 yrs.	See Dec. 7 th
Church "	—	June 5 th	1	M.J.C. 2 yrs.	
" "	21	Aug. 27 th	1	R.F. 2 "	Aug 15 th M.M. 4 yrs. ill here.
" "	13	" "	1	M.M. 2 1/2 "	Infection from No 21.
Home "	21	June 15 th	2	J.E.H. 9 yrs. M.H. 7 yrs.	
" "	—	Oct. 5 th	1	J.H.V. 7 "	
" "	—	" 20 th	1	E.A.H. 13 "	Taken 15 th . Infect. from G's High Str.
" "	14	Oct 25 th } Nov. 19 th } Dec. 9 th } " 22 nd } " 10 th }	6	{ G.F. 9 yrs, R.F. 5 wks, A.F. 14 yrs. { S.F. 4 yrs, J.E.F. 2 yrs, M.F. 13 yrs.	A.F. died Nov. 28 th .
Brownson's For.	2	June 10 th	1	F.W. 3 yrs.	
Sutton's "	7	" 25 th	1	A.F.S. 5 yrs.	after having scarlatina. People next door but one came there
North Str.	2	July 21 st , Sept. 21 st }	3	E.H. 10 yrs, A.E.H. 7 yrs. F.M.H. 5 yrs.	
Ravendale Str.	—	Aug 26 th & 11 th }	2	F.C. 5 yrs, W.L. 1 yr.	Infect. from 13 Park Str.
Britannia For.	17	Feb 19 th , Mch 3 rd	4	G.S. 2 yrs, M.S. 3 yrs, A.S. 15 mo, R.S. 5 yrs.	G.S. will on Feb 15 th
" "	27	Mch 12 th	2	E.R. 5 yrs, F.R. 1 yr.	F.R. began Mch 6 th
" "	28	Apr 2 nd	1	J.N.L. 6 yrs.	
" "	4	Dec 17 th	1	G.H. 13 yrs.	
Wilson Str	13	May 1 st	1	H.S. 8 yrs.	
" "	14	Sept 1 st , Oct 2 nd }	5	{ E.D. 6 yrs, R.B. 9 yrs, G.B. 4 yrs. { G.B. 11 yrs, A.B. 1 yr	Playing with G's at No 13
Park "	13	Aug 2 nd & 3 rd }	2	{ R.C. 15 yrs, C.C. 13 yrs.	
" "	30	Aug 7 th & 24 th	3	R.D. 4 yrs, L.D. 10 yrs, A.D. 5 yrs.	Played with G's at No 13.
" "	36	" 24 th	2	A.E. 2 1/2 yrs, L.D. 9 mo.	Relations of preceding.
" "	"	Sept 18	1	G.D. 6 yrs.	Live in part of same home above
" "	5	Sept 27 th }	2	A.F. 6 yrs, R.F. 5 yrs.	Infect. from L's, Ravendale Str
Driffill's Row	4	Sept. 19 th	1	M.A.L. 3 yrs.	
" "	1	" 26 th	2	E.H. 4 yrs, M.H. 2 yrs.	
Park Str.	28	Aug 31 st	1	G.H. 2 1/2 yrs.	

Incubation (cont)

Incubator No.	Species	Incubation Period	Remarks
11	Bird	11 days	
13	"	13 "	
15	"	15 "	
17	"	17 "	
19	"	19 "	
21	"	21 "	
23	"	23 "	
25	"	25 "	
27	"	27 "	
29	"	29 "	
31	"	31 "	
33	"	33 "	
35	"	35 "	
37	"	37 "	
39	"	39 "	
41	"	41 "	
43	"	43 "	
45	"	45 "	
47	"	47 "	
49	"	49 "	
51	"	51 "	
53	"	53 "	
55	"	55 "	
57	"	57 "	
59	"	59 "	
61	"	61 "	
63	"	63 "	
65	"	65 "	
67	"	67 "	
69	"	69 "	
71	"	71 "	
73	"	73 "	
75	"	75 "	
77	"	77 "	
79	"	79 "	
81	"	81 "	
83	"	83 "	
85	"	85 "	
87	"	87 "	
89	"	89 "	
91	"	91 "	
93	"	93 "	
95	"	95 "	
97	"	97 "	
99	"	99 "	

Scarlatina (cont^d)

Name of street	No	When not ^d .	Number of cases	Name + age	Remarks.
Park Street	11	Sep. 5 th + Oct 26 th	2	H. S. 4 yrs; G. F. 11 yrs.	
" "	17	" 12 th	1	Mrs. S.	
" "	15	" 14 th	1	B. C. 7 yrs.	
" "	7	" 15 th	1	H. R. 10 yrs.	
" "	21	" 25 th	1	J. L. 13'	Visited at S. C. No 15.
" "	—	Oct 2 nd	1	J. S. 9 yrs.	Played with child from No 17. Mother scarlatina.
" "	16	Dec 12 th	1	A. F. 3 yrs.	
Francis "	9	Aug 28 th	1	A. D. 9 yrs.	
Wells "	—	Nov 12 th	1	V. W. 5 yrs.	
Blm Cotts.	—	Nov. 25 th	1	A. D. 7 yrs.	
Back of P. O. Hill		Sep. 15 th or 16 th	3	M. J. 6 yrs; W. Y. 4 yrs; E. Y. 2 1/2 yrs.	
Walker's Ter.	1	" 22 " "	3	L. H. 6 yrs; H. W. 3 yrs; F. J. W. 12 yrs.	
Manley Str.	69	Oct. 8 th + 75 th	2	F. P. 9 yrs; D. P. 5 yrs.	
" "	—	Oct 10 th	1	P. H. 2 1/2 yrs.	
" "	—	" 19 th	1	F. H. 4 yrs.	
" "	71	Dec 9 th + 12 th	2	C. H. S. 4 yrs; V. S. 1 yr.	
" "	79	" 12 th + 22 nd	2	R. F. 3 yrs; M. F. 3 yrs.	
" "	44	Oct 4 th + 4 th seq.	3	E. A. 2 yrs; A. A. A. 7 yrs; J. R. A. 4 yrs.	
" "	—	March 31 st	1	J. L. 8 yrs.	
" "	—	May 14 th	1	J. H. W. 10 yrs.	
" "	63	" "	1	F. S. 4 yrs.	
" "	—	Sept. 12 th	1	Mrs. J.	Confined during end of disease.
" "	24	" 22 nd	1	R. H. 14 mo.	
" "	18	Nov. 8 th	1	A. R. 1 yr.	Case next door.
Brosby Road	—	Feb. 24 th	1	B. D. 9 yrs	
" "	15	Oct. 17 th	1	L. S. 15 yrs.	
" "	11	Nov. 8 th + 27 th	2	M. S. H. 7 yrs; C. H. 3 yrs.	
" "	—	" 27 th		C. W. T. 3 yrs.	Playing with H's at No 11.
" "	—	Dec. 24 th		K. G. 15 mo.	

Year	Month	Day	Event / Description	Amount
1880	Jan	1	...	...
1880	Jan	2	...	...
1880	Jan	3	...	...
1880	Jan	4	...	...
1880	Jan	5	...	...
1880	Jan	6	...	...
1880	Jan	7	...	...
1880	Jan	8	...	...
1880	Jan	9	...	...
1880	Jan	10	...	...
1880	Jan	11	...	...
1880	Jan	12	...	...
1880	Jan	13	...	...
1880	Jan	14	...	...
1880	Jan	15	...	...
1880	Jan	16	...	...
1880	Jan	17	...	...
1880	Jan	18	...	...
1880	Jan	19	...	...
1880	Jan	20	...	...
1880	Jan	21	...	...
1880	Jan	22	...	...
1880	Jan	23	...	...
1880	Jan	24	...	...
1880	Jan	25	...	...
1880	Jan	26	...	...
1880	Jan	27	...	...
1880	Jan	28	...	...
1880	Jan	29	...	...
1880	Jan	30	...	...
1880	Jan	31	...	...
1880	Feb	1	...	...
1880	Feb	2	...	...
1880	Feb	3	...	...
1880	Feb	4	...	...
1880	Feb	5	...	...
1880	Feb	6	...	...
1880	Feb	7	...	...
1880	Feb	8	...	...
1880	Feb	9	...	...
1880	Feb	10	...	...
1880	Feb	11	...	...
1880	Feb	12	...	...
1880	Feb	13	...	...
1880	Feb	14	...	...
1880	Feb	15	...	...
1880	Feb	16	...	...
1880	Feb	17	...	...
1880	Feb	18	...	...
1880	Feb	19	...	...
1880	Feb	20	...	...
1880	Feb	21	...	...
1880	Feb	22	...	...
1880	Feb	23	...	...
1880	Feb	24	...	...
1880	Feb	25	...	...
1880	Feb	26	...	...
1880	Feb	27	...	...
1880	Feb	28	...	...
1880	Feb	29	...	...
1880	Feb	30	...	...
1880	Mar	1	...	...
1880	Mar	2	...	...
1880	Mar	3	...	...
1880	Mar	4	...	...
1880	Mar	5	...	...
1880	Mar	6	...	...
1880	Mar	7	...	...
1880	Mar	8	...	...
1880	Mar	9	...	...
1880	Mar	10	...	...
1880	Mar	11	...	...
1880	Mar	12	...	...
1880	Mar	13	...	...
1880	Mar	14	...	...
1880	Mar	15	...	...
1880	Mar	16	...	...
1880	Mar	17	...	...
1880	Mar	18	...	...
1880	Mar	19	...	...
1880	Mar	20	...	...
1880	Mar	21	...	...
1880	Mar	22	...	...
1880	Mar	23	...	...
1880	Mar	24	...	...
1880	Mar	25	...	...
1880	Mar	26	...	...
1880	Mar	27	...	...
1880	Mar	28	...	...
1880	Mar	29	...	...
1880	Mar	30	...	...
1880	Mar	31	...	...