

[Report 1898] / Medical Officer of Health, Ormesby U.D.C.

Contributors

Ormesby (England). Urban District Council.

Publication/Creation

1898

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R E P O R T.

of the

M E D I C A L O F F I C E R O F H E A L T H

for the

O R M E S B Y

U R B A N D I S T R I C T,

1 8 9 8.

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R E P O R T
of the
M E D I C A L O F F I C E R O F H E A L T H
for the
O R M E S B Y U R B A N D I S T R I C T
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Gentlemen,

During the year 1898, 166 deaths were registered in the Ormesby District 31 of which occurred at the Cottage Hospital, of which number 21 were imported. Deducting these imported deaths the total due to the District is reduced to 145.

The population of your District estimated for the middle of 1898 is 9,257, and the death rate calculated on the population is 15.6 per thousand.

17 deaths from the seven chief Zymotic Diseases were registered during the year, giving a mortality rate of 1.83 per thousand.

The Births numbered 303 giving a birth rate of 32.7.

66 deaths of children under 1 year were registered, showing a death rate of 21.7 per cent calculated on the number of children born during the year.

The ages at which death occurred were:-

Under 1 year	66
1 year and under 5 years.	15
5 years " " 15 "	7
15 " " " 25 "	10
25 " " " 65 "	51
65 " " upwards.	<u>17</u>
	<u>166.</u>

The first of the following Tables is one showing the total number of deaths and rates of mortality from seven chief Zymotic Diseases and other causes during the past 10 years.

The general death rate for 1898 is lower than for the 3 previous

MEMORIAL OF THE

1772

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1

During the year last, the duties were regulated in the
 following manner: 51 of which amount to the duties payable
 upon the goods as they are imported. The duties upon
 the goods that are imported are as follows: 1772
 The quantity of goods imported amounted to the value of
 1772, and the duties thereon to the value of 1772.

The duties upon the goods as they are imported are as follows:
 The duties upon the goods as they are imported are as follows:
 The duties upon the goods as they are imported are as follows:
 The duties upon the goods as they are imported are as follows:

Item	Quantity	Value	Duty
Wine	100	100	10
Beer	200	200	20
Gold	50	500	50
Silver	100	1000	100
Iron	1000	1000	100
Wool	1000	1000	100
Flax	1000	1000	100
Cotton	1000	1000	100
Linseed	1000	1000	100
Oil	1000	1000	100
Soap	1000	1000	100
Wax	1000	1000	100
Resin	1000	1000	100
Spices	1000	1000	100
Drugs	1000	1000	100
Books	1000	1000	100
Prints	1000	1000	100
Manuscripts	1000	1000	100
Tools	1000	1000	100
Hardware	1000	1000	100
Textiles	1000	1000	100
Leather	1000	1000	100
Metals	1000	1000	100
Stones	1000	1000	100
Shells	1000	1000	100
Plants	1000	1000	100
Animals	1000	1000	100
Minerals	1000	1000	100
Others	1000	1000	100

The value of the goods as they are imported is as follows:
 The value of the goods as they are imported is as follows:
 The value of the goods as they are imported is as follows:
 The value of the goods as they are imported is as follows:

years but the Zymotic death rate is somewhat higher, ^{than for 1897.} viz.- 1.8 as compared with 1.4 per thousand.

5 deaths resulted from Small Pox. 1 from Scarlet Fever.
2 from Typhoid Fever. 7 from Diarrhoea. 2 from Measles,
But there were no deaths from Diphtheria or Whooping Cough.

The 2nd Table shows the deaths occurring at two groups of ages from various diseases in each quarter of 1898 the deaths at the Cottage Hospital being arranged separately.

During the year 31 deaths took place at this institution, only 10 of which belonged to the District, the others being imported cases.

The 3rd Table gives the Zymotic Death rates for the past 10 years that for 1898 comparing favourably with preceding years.

The next Table contains the deaths from Zymotic Diseases in each quarter of 1898 and shows a very satisfactory result for the year.

The Table following gives the Births and Deaths and the Birth rates and Death rates and Deaths at various ages during each quarter of 1898.

Examining this Table it will be seen that Infant Mortality was high in the 3rd and last Quarter of the year, 56 deaths under 5 years being registered during these six months, giving a total of 81 deaths under 5 years, and 85 at 5 years and over, for the 12 months.

The Birth rate for 1898 was higher than for the preceding year and the figures for the past 13 years are as follows:-

1886	38.7	1892	36.4
1887	39.3	1893	34.
1888	35.1	1894	31.
1889	36.8	1895	34.
1890	34.5	1896	33.1
1891	37.8	1897	30.0
	1898	32.7	

The Death rate per cent, of children under 1 year, I regret to report, again shows an increase on past years; chiefly the result

The first part of the report is devoted to a general description of the project and the objectives of the study. It is followed by a detailed account of the methods used in the investigation, including the selection of the study area and the collection of the data. The results of the study are then presented in a series of tables and figures, which are discussed in detail in the following sections. The final part of the report is a conclusion and a list of references.

The data presented in the tables and figures show that there is a significant correlation between the variables studied. This is supported by the statistical analysis performed on the data. The results of the study are consistent with the findings of other researchers in the field. The study has several limitations, which are discussed in the conclusion. Further research is needed to confirm the findings of this study.

Year	Value 1	Value 2
1975	100	120
1976	110	130
1977	120	140
1978	130	150
1979	140	160
1980	150	170
1981	160	180
1982	170	190
1983	180	200
1984	190	210
1985	200	220

The data presented in the table above shows a steady increase in the values of both variables over the period from 1975 to 1985. This is consistent with the findings of the study, which indicate a positive correlation between the variables. The study has several limitations, which are discussed in the conclusion. Further research is needed to confirm the findings of this study.

of deaths from Diarrhoea and Diseases of the Digestive System, Atrophy and Scrofulous affections, as in previous years.

Death rates per cent, for 13 years of children under 1 year . calculated on the number of children born during the year:-

1886	18.6	1893	18
1887	15.6	1894	11.5
1888	14.5	1895	14.7
1889	17.2	1896	18.2
1890	16.7	1897	21.4
1891	12.5	1898	21.7
1892	12.2		

Deaths and Death-rates from all causes, for 10 years.

	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.
Small Pox.										5.
Measles.	6.			19.		1.		12.		2.
Scarlet Fever.	6.	1.				1.	9.	2.	1.	1.
Diphtheria.			2.					2.	1.	
Whooping Cough.	2.	2.	6.		1.	1.	1.	9.	3.	
Typhoid Fever.	3.	16.	6.	1.	4.	2.	7.	1.	2.	2.
Doubtful Fever.			1.							
Typhus Fever.										
Diarrhoea and Dysentery.	11.	5.	3.	4.	11.	2.	5.	2.	6.	7.
Deaths from 7 Chief Zymotic Diseases.	28.	24 X 23.	18.	24.	16.	7 6.	22.	28.	13.	17.
Deaths from other causes.	132.	129.	134.	123.	125.	100.	133.	138.	151.	123.
Total for each year due to the district.	160.	152.	152.	147.	141.	106.	155.	166.	164.	145.
Death-rate from 7 chief Zymotic Diseases per 1000	3·23.	2·65.	2.	2·74.	1·8.	·6	2·44.	3·08.	1·41.	1·8.
Death-rate from other causes per 1,000.	15·23.	14·89.	15·52.	14·07.	14·1.	11·2.	14·78.	15·19.	16·4.	13·8.
General Death- rate per 1,000.	18·46.	17·5.	17·6.	16·8.	15·9.	11·8.	17·2.	18·2.	17·8.	15·6.

X Includes one imported death from Typhoid Fever at
the Cottage Hospital.

1897. 1898. 1899. 1900. 1901. 1902. 1903. 1904. 1905. 1906.

1897	1898	1899	1900	1901	1902	1903	1904	1905	1906
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
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140

141 142 143 144 145 146 147 148 149 150

X Increase one imported each from thread count at the Cottage Hospital.

CAUSES OF DEATH IN EACH QUARTER OF 1898-at two GROUPS OF AGES.

Not including Deaths at the Hospital.

Quarter Ending.	Deaths from chief Zymotic Diseases. Erysipelas.													Totals.		
	Under 5 yrs.	5 yrs & over	Under 5 yrs.	5 yrs & over	Under 5 yrs.	5 yrs & over	Under 5 yrs.	5 yrs & over	Under 5 yrs.	5 yrs & over	Under 5 yrs.	5 yrs & over				
March 31.	1	5	1	3	1	3	1	3	1	1	1	2	1	1	3	11
June 30.	1	1	2	1	2	2	1	1	1	1	1	1	1	1	1	10
Sept 30.	7	1	1	3	1	1	1	2	8	1	1	1	1	1	1	27
Dec 31.	2	2	4	1	3	4	1	1	3	1	1	1	1	1	1	28
Total Deaths from all causes.	10	7	1	1	2	7	6	13	9	8	1	2	2	1	4	69
Total at all ages.	17	1	2	11	7	7	13	21	11	3	2	9	16	6	1	135.

DEATHS AT THE COTTAGE HOSPITAL.

Quarter Ending.	Cancer.	Scrofulous Diseases.	Convulsions.	Diseases of Circulatory System.	Diseases of Respiratory System.	Diseases of Digestive System.	Diseases of Urinary System.	Croup.	Injuries.	Rheumatic Fever.	Other Diseases.	Total.
March 31.												
									2		1	3
				3			1		3			7
June 30.			1									1
	1			1	2		1		2	1		8
Sept 30.												-
	1	1					1		2			6
Dec. 31.								1				1
	1			1	1	1			2			6
Total			1					1	2	1		5
deaths from												
all	3	1		5	3	1	3		2	1		20
causes												
Total deaths all Ages.	3	1	1	5	3	1	3	1	11	1	1	31.

DEATH RATES FROM ZYMOTIC DISEASES FOR THE PAST 10 YEARS.

DISEASES.	1889	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.
Small Pox										.54.
Measles.	.63			2.17		.11		1.32		.21
Scarlet Fever	.63	.11				.11	1.0	.22	.1	.1
Diphtheria.			.23					.22	.1	
Whooping Cough	.23	.23	.69		.11	.11	.1	.99	.3	
Typhoid Fever.	.34	1.84 1.73(a)	.69	.11	.45	.11(d)	.77	.11	.2	.21
Typhus "						.22(c)				
Doubtful "			.11							
Diarrhoea and Dysentery.	1.26	.57	.34	.45	1.24	.22	.55	.22	.6	.75
Zymotic Annual Death rate.	3.21	2.7(b) 2.65	2.0	2.7	1.8	.7(d) .6	2.4	3.0	1.41	1.8
General Death rate due to the District.	18.4	17.5	17.6	16.8	15.9	11.8	17.2	18.2	17.8	15.6

(a) Reduced to 1.73 after deducting imported case at Cottage Hospital.

(b) " 2.65 " " "

(c) " .11 " " "

(d) " .6 " " "

MEMORANDUM FOR THE RECORD

1. On 10/10/50, the following information was received from the [illegible] office regarding the [illegible] case.

2. The [illegible] office advised that the [illegible] individual was born on [illegible] and is currently residing at [illegible].

3. It is noted that the [illegible] office has advised that the [illegible] individual is currently [illegible].

4. The [illegible] office has advised that the [illegible] individual is currently [illegible].

DEATHS FROM ZYMOTIC DISEASES IN EACH QUARTER OF 1898.

Quarter Ending.	March 31.	June 30.	Sept 30.	Dec 31.	Total.
7 Principal Zymotic Diseases-					
Under 5 years		1	7	2	10.
5 years and over	5		2		7.
Small-Pox-					
Under 5 years					
5 years and over	5				5.
Measles-					
Under 5 years				2	2.
5 years and over					
Scarlet Fever-					
Under 5 years		1			1.
5 years and over					
Diphtheria					
Under 5 years					
5 years and over					
Whooping Cough-					
Under 5 years					
5 years and over					
Typhoid Fever-					
Under 5 years					
5 years and over			2		2.
Typhus Fever-					
Under 5 years					
5 years and over					
Doubtful Fevers-					
Under 5 years					
5 years and over					
Diarrhoea & Dysentery-					
Under 5 years			7		7.
5 years and over					

TABLE SHOWING THE NUMBER OF BIRTHS AND DEATHS; ALSO THE BIRTH-RATE AND DEATH-RATE,
AND THE DEATHS AT VARIOUS AGES DURING EACH QUARTER OF 1898.

Quarter Ending.	Births.	Birth Rate.	Total Deaths from all Causes.	Death Rate due to the District.	<i>Age at which death occurred</i>					
					Under 1 year.	5 years and under 15 years.	5 years and under 25 years.	15 years and under 25 years.	25 years and upwards.	
March 31.	77	33.3	40	15.1	9	5	3	1	20	2
June 30.	81	35.0	29	9.0	10	1	2	3	12	1
September 30.	66	28.4	41	16.3	24	3	2	4	4	4
December 31.	79	33.9	56	22.3	23	6	0	2	15	10
Total for Year.	303	32.7	166	15.6	66	15	7	10	51	17

(9).

[Faint, illegible text, likely bleed-through from the reverse side of the page]

In the first quarter of the past year the Ormesby District suffered from an Epidemic of Small Pox commencing in February and terminating in June. The disease spread from Middlesbrough and unfortunately we were unprepared at the time to deal with it. In my report for 1897 I drew attention to the helpless condition of this District in the event of an outbreak of Small Pox occurring. Dependent as we are on the Middlesbrough Fever Hospital for the isolation of our infectious cases, and the accommodation being insufficient during an epidemic of any kind for the reception of patients from Middlesbrough itself, this District cannot rely on its cases being received by the Middlesbro' Sanitary Authority.

Shortly after the outbreak of Small Pox in Middlesbrough the accommodation for Middlesbrough Small Pox patients was exhausted and naturally our cases were refused. The Eston Sanitary Authority very generously agreed to assist us, but that help was denied us as soon as application for removal of 3 small pox cases was made, the Eston Surveyor refusing to take the patients into the Sanatorium. Steps were at once taken to cope with the emergency and so energetically was the work undertaken that in 5 days we were able to remove into Hospital the patients we then had and each case afterwards on the same day it was notified.

The following cases were certified in accordance with the Infectious Diseases Notification Act during the period under consideration.-

	Under 5 years.	5 years and over.	Total.
Scarlet Fever	8	4	12.
Typhoid Fever	-	6	6.
Erysipelas	1	5	6.
Diphtheria	-	1	1.
Small Pox	1	32	33.
Croup	1	-	1.
	11	48	59.

The first quarter of the year has been a very busy one for the
company. We have seen an increase of sales for the first time in
many months. This is due to the fact that we have been able to
expand our business in many new areas. We have also seen a
decrease in our expenses, which has helped to increase our
profitability. We are very pleased with the results of the first
quarter and we expect to continue to see growth in the
second quarter.

The following table shows the results of the first quarter
compared to the same quarter of the previous year. The
figures are in thousands of dollars. The first column shows
the amount for the first quarter of the current year, the
second column shows the amount for the first quarter of the
previous year, and the third column shows the percentage
change. The figures are as follows:

Item	Current Year	Previous Year	% Change
Sales	100	80	25%
Expenses	60	55	9%
Profit	40	25	60%

The following table shows the results of the first quarter
compared to the same quarter of the previous year. The
figures are in thousands of dollars. The first column shows
the amount for the first quarter of the current year, the
second column shows the amount for the first quarter of the
previous year, and the third column shows the percentage
change. The figures are as follows:

Item	Current Year	Previous Year	% Change
Sales	100	80	25%
Expenses	60	55	9%
Profit	40	25	60%

The June quarter was more satisfactory than the preceding one. Six cases of Small Pox were reported from 4 centres during the 3 months.

The Death rate due to the District was only 9 per thousand per annum. And one death only was returned from Zymotic Disease.

The Infectious Diseases notified were as follows.-

	<u>Under 5 years.</u>	<u>5 years and over.</u>	<u>Total.</u>
Scarlet Fever	6	10	16.
Typhoid Fever	-	4	4.
Small Pox	-	6	6.
	<u>6</u>	<u>20</u>	<u>26.</u>

During the quarter ending September 30th North Ormesby suffered from an outbreak of Typhoid Fever and Diarrhoea. The latter resulting in a high death rate for children under 1 year. 24 infants under 1 year died out of 41 deaths occurring at all ages. There were 2 deaths from Typhoid Fever and 14 cases notified, the majority of those attacked resided on the North side of the Market Place,

Return of Infectious cases certified during the quarter ending September 30th.-

	<u>Under 5 years.</u>	<u>5 years and over.</u>	<u>Total.</u>
Scarlet Fever	-	2	2.
Typhoid Fever	-	14.	14.
Erysipelas	-	4	4.
Croup	-	1	1.
	<u>0.</u>	<u>21.</u>	<u>21.</u>

In the last three months of the year Typhoid Fever was still prevalent and about the middle of December Measles appeared in North Ormesby, the number of cases of the latter disease rapidly increased, due to children attending school in the incubation period, and to neighbours and children visiting at or from infected houses. During the last fortnight of the year about 50 cases came under my notice.

The first part of the report was devoted to a general survey of the work done during the year. It was found that the work was carried out in a satisfactory manner and that the results were of a high standard.

The second part of the report dealt with the results of the various experiments conducted during the year. It was found that the results were in general in accordance with the expectations and that the work was of a high standard.

TABLE I

Year	1910	1911	1912
...
...
...

The third part of the report dealt with the results of the various experiments conducted during the year. It was found that the results were in general in accordance with the expectations and that the work was of a high standard.

TABLE II

Year	1910	1911	1912
...
...
...

The fourth part of the report dealt with the results of the various experiments conducted during the year. It was found that the results were in general in accordance with the expectations and that the work was of a high standard.

In the last three months of the year, the work was carried out in a satisfactory manner and the results were of a high standard. It was found that the work was of a high standard and that the results were in general in accordance with the expectations.

The Infectious Diseases notified for the Quarter ending December 31st 1898 were.-

	Cases.	Under 5 years.	5 years & over.
Typhoid Fever	20.	1	19
Scarlet Fever	6.	-	6
Erysipelas	5.	-	5
	<u>31</u>	<u>1</u>	<u>30</u>

The total number of certificates received for infectious diseases during 1898 was above that for 1897. There was a diminution in the total cases of Scarlet Fever reported but cases of Typhoid Fever and Erysipelas were greatly increased and Small Pox alone resulted ~~in~~ in the receipt of 39 notifications, due to the Epidemic which occurred in the Spring.

The total number of Infectious cases notified during 1898 is as follows.-

1897.	Disease.	Quarter Ending.				Totals.
		March 31	June 30	Sept 30	Dec. 31	
59.	Scarlet Fever	12	16	2	6	36
16	Typhoid Fever	6	4	14	20	44
8	Erysipelas	6	-	4	5	15
2	Diphtheria	1	-	-	-	1
///	Membranous Croup	1	-	1	-	2
///	Small Pox	33	6	0	0	39
85		<u>59</u>	<u>26</u>	<u>21</u>	<u>30</u>	<u>137</u>

The following statement is submitted for the purpose of showing the results of the investigation conducted during the year 1937.

Category	1937	1936	1935
Group A	10	15	20
Group B	5	10	15
Group C	3	5	8
Group D	2	3	5
Total	20	33	48

The total number of cases reported for the year 1937 was 20, which is a decrease of 13 cases from the total number of cases reported for the year 1936. This decrease is due to the fact that the number of cases reported for the year 1937 was 20, which is a decrease of 13 cases from the total number of cases reported for the year 1936. This decrease is due to the fact that the number of cases reported for the year 1937 was 20, which is a decrease of 13 cases from the total number of cases reported for the year 1936.

Category	1937		1936		1935	
	Jan	Feb	Jan	Feb	Jan	Feb
Group A	10	10	15	15	20	20
Group B	5	5	10	10	15	15
Group C	3	3	5	5	8	8
Group D	2	2	3	3	5	5
Total	20	20	33	33	48	48

Division of Health for Massachusetts, State Health Department

SMALL POX.

The Epidemic of Small Pox in North Ormesby was an extension of the outbreak in Middlesbrough which is said to have had its origin in a visit paid to that town by a travelling show in November 1897, or may have been imported, it is suggested from Bilbao.

The first case in Middlesbrough was certified on November 22nd 1897,

2 additional cases on Dec. 4th.	5 cases notified Feby 2nd.
1 on " 27th	8 on " 3rd.
4 on " 28th	18 on " 4th.
3 on " 30th	23 on " 5th
31 during January 1898.	34 on " 6th
	74 on " 7th.

In all 1201 cases had been notified up to and including March 31st and 153 deaths had occurred, or to the end of the Epidemic 1411 cases with 202 deaths.

The accomodation provided for Small Pox patients in Middlesbrough soon became exhausted and on 19th Feby there were 174 cases outside the Hospital being nursed in their homes in the town many of whom remained at home until they recovered or died.

On Jany 22nd word was received from Dr Malcomson the Medical Officer of Health for Middlesbrough, that Small Pox patients from the Ormesby District could not be admitted into the Middlesbrough Fever Hospital, and the same day the Chairman of the Ormesby District Council, the Surveyor and myself took steps to provide accomodation for any cases arising in the Ormesby District. We fixed on a cottage called "Seldom Seen" (half way between North Ormesby and Ormesby Village) standing in a field and well away from the main road and about 1,000 yards distant from the nearest house.

A special meeting of the Council was held on January 24th and permission given to use this building for Small Pox cases.

The situation of affairs here is very serious and the
the situation in Birmingham which is said to have
been in a state of panic for some time past.
The latter case in Birmingham has not yet been
settled.

The latter case in Birmingham has not yet been
settled.

1	2	3	4	5	6	7	8	9	10
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100

The latter case in Birmingham has not yet been
settled.

The latter case in Birmingham has not yet been
settled.

The latter case in Birmingham has not yet been
settled.

The latter case in Birmingham has not yet been
settled.

The latter case in Birmingham has not yet been
settled.

Instructions were also given to be ready to at once provide additional accomodation if required and orders given for plans to be drawn for a small Hospital, and a nursing staff procured.

Arrangements were also made for the immediate reception of cases into the Eston Fever Hospital.

It was thought that the cottage might do for 2 or 3 cases, but the disease increased so rapidly in Middlesbrough that it was seen enlargement of the building would have to be undertaken.

The first cases, 3 in number, occurred on February 6th and were refused admission by the Eston Sanitary Authority even after our promising to remove the cases as soon as we had accomodation for them, which I expected would be in 3 days, or I offered to afterwards take into our hospital an equivalent of Small Pox patients from Eston if required.

A special meeting of the Council was held on Sunday Feby 6th, and on Monday we began to carry out the erection of the first hospital buildings which was finished and the cases moved in on Thursday following. The number had by that time increased to 8.

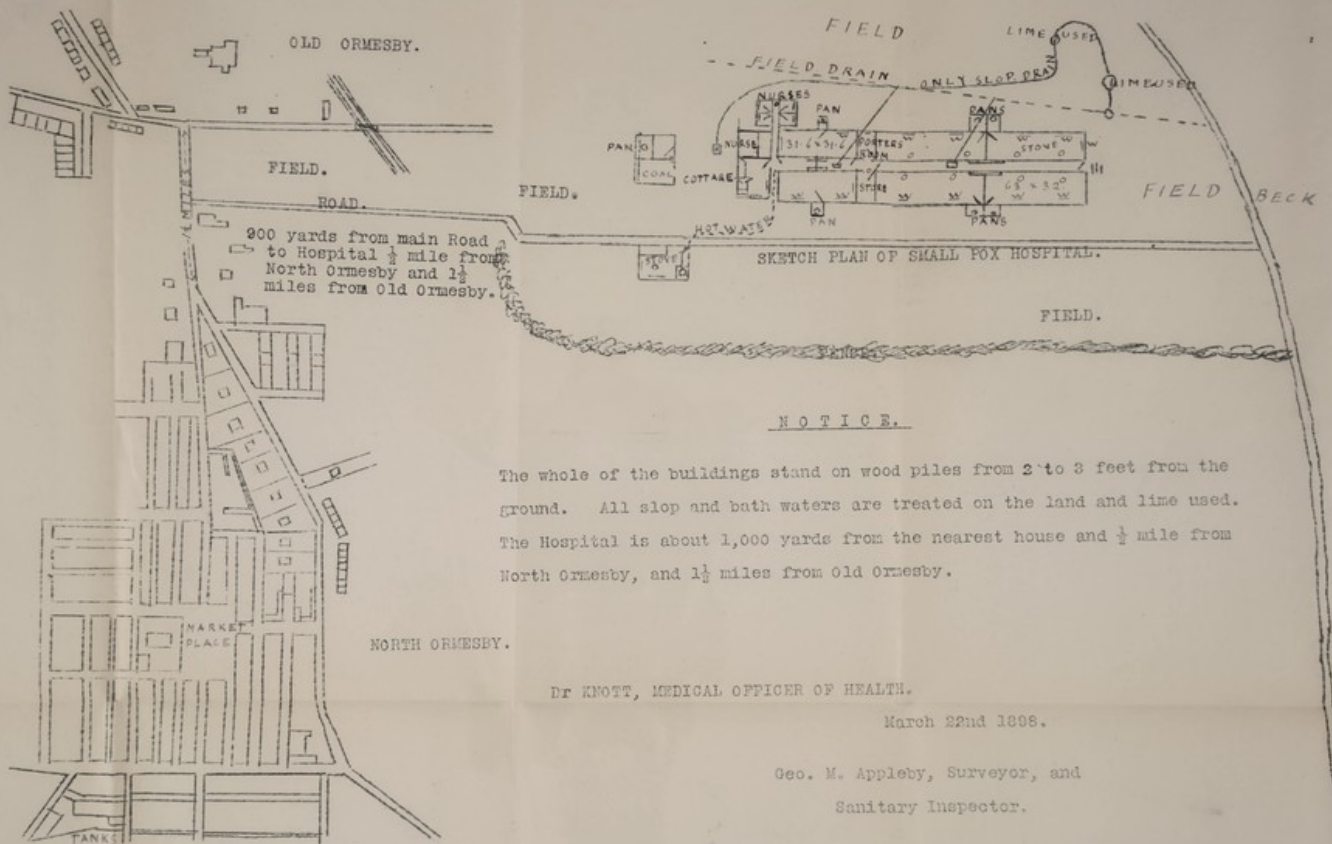
No case I am pleased to say resulted from our having to retain the patients in their homes for the 4 days it took to prepare the hospital, so far as I can tell, and certainly none of those admitted afterwards were due to the delay in removing those first attacked.

The cases were strictly isolated and the inmates compensated for loss of wages. A watch was kept on the houses, and anything required by those within supplied by those guarding the premises.

On February 10th all the cases - 8 - were removed to "Seldom Seen", Dr Fulton Medical Officer to the Eston Sanatorium having been appointed Medical Officer in charge and since then every case was removed the same day as notified, excepting one in Louisa Street which was removed early the following morning.

The cottage was used as the administrative block and contained a kitchen, scullery, storeroom and bedroom. The shed hospital was built on piles 2 to 3 feet above the ground. A

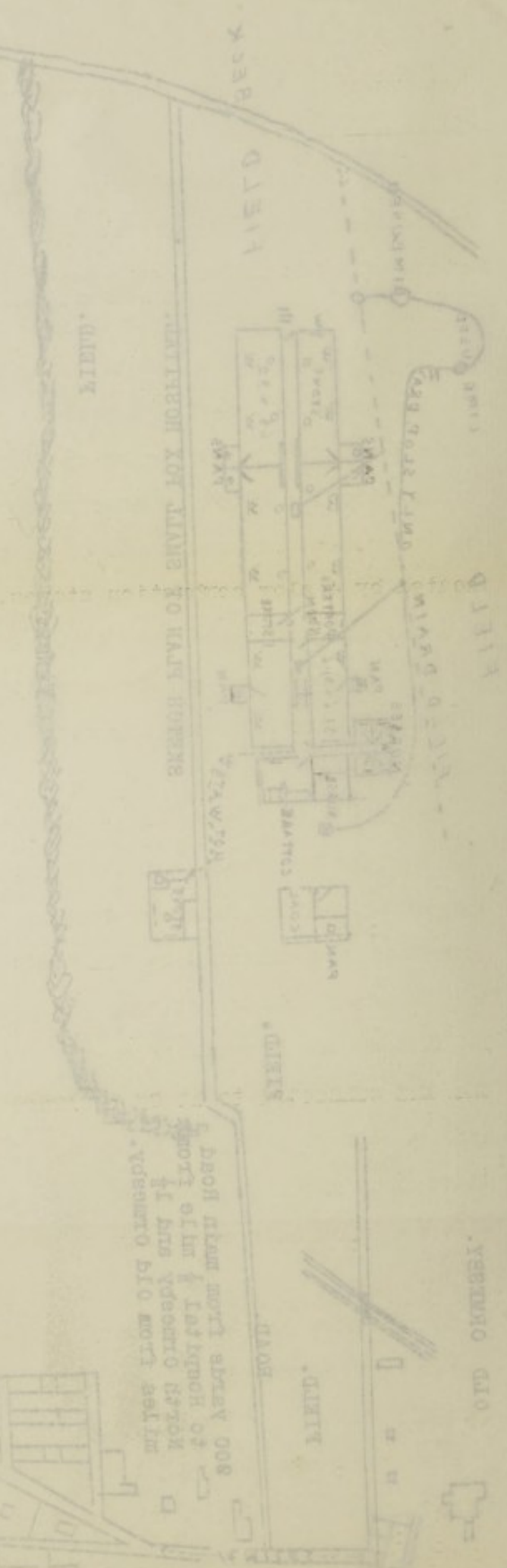
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APPROX. SURVEYED, 1880
 CONTAINS THE FOLLOWING

NOTE: THE HOUSES AND BUILDINGS IN THE
 NORTH CORNER ARE NOT SHOWN IN THIS
 PLAN. THE HOUSES AND BUILDINGS IN THE
 SOUTH CORNER ARE NOT SHOWN IN THIS
 PLAN. THE HOUSES AND BUILDINGS IN THE
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 PLAN.

SECTION



THESE ARE THE HOUSES AND BUILDINGS
 IN THE NORTH CORNER OF THE
 SECTION. THE HOUSES AND BUILDINGS
 IN THE SOUTH CORNER ARE NOT
 SHOWN IN THIS PLAN.

ROAD

FIELD

FIELD

FIELD

FIELD

FIELD

proper drainage scheme was arranged by the Surveyor but all discharges from the patients were burnt. Provision for supplying hot water to the hospital was also made, and as the water supply to the cottage was thought of doubtful purity being derived from a spring it was ordered to be analysed and before being used to be boiled, and a supply was sent daily in a water cart from the Stockton and Middlesbrough Water Boards main in North Ormesby.

The first shed to hold 13 patients was 31 ft 6 inches long, by 31 ft 6 in. The height being 15 feet to the eaves, and 30 ft to the ridge, having a boarded floor, and divided by a central corridor 5 feet wide, so as to form 2 wards and connected to the administrative block by an open corridor. This and the whole of the wooden buildings was covered with felt outside and was heated by 4 slow combustion stoves.

Four bedrooms were also erected at the same time and connected by a short corridor to the corridor joining the cottage with the hospital. It was well lighted and ventilated and when finished was most comfortable.

After a time I saw the accomodation would prove insufficient and advised the Council to erect a second hospital. This was agreed to, and on February 14th an additional building was commenced and finished by 22nd February at which time there were 3 male and 9 female patients and a baby in the first shed.

This second hospital shed was built at the rear of the first one and connected to it by a closed corridor 12 ft long. The shed was 63 ft long, 32 ft wide, 11 ft from floor to eaves, and 22 ft from floor to ridge, divided by a central corridor 4 ft wide and each half again divided so that the shed contained 4 wards.

It was also found necessary to provide a wash house, a large copper for the supply of hot water and a new kitchen range were also fixed.

The staff consisted of Dr Fulton, Medical Officer, Mrs Carrott Matron and Head Nurse, 2 assistant nurses, Ward maid, Cook, General servnat and Porter.

From the commencement of the epidemic to March 31st 33 patients were admitted into the hospital of which 5 died. 14 were discharged, ^{cured.} and 14 remained under treatment.

In addition to isolation in hospital other measures were taken for checking the spread of the epidemic. Vaccination and Re-vaccination of the whole district was arranged for by the Guardians, and a great many vaccinations and re-vaccinations performed by the general practitioners in the district. Domiciliary vaccination and re-vaccination were done, and finally instructions were given to all medical men to perform vaccination and charge the Guardians for those done successfully, the Lymph being supplied by the Sanitary Authorities of the various districts. Hand bills and posters advising vaccination and re-vaccination were widely circulated, also bills giving instructions to Householders for dealing with any small pox case occurring in a house.

If a case did arise it was removed, and in some instances the beds and bed linen destroyed (compensation being given) or disinfected, Thorough disinfection of the house and contents carried out, re-vaccination of those exposed to the disease performed and a look out kept for a recurring case.

548 vaccinations and re-vaccinations were performed in North Ormesby by myself from January 1st to March 31st, including over 60 nurses, servants and patients at the cottage hospital, and 42 inmates at the Orphanage North Ormesby.

The Sanitary condition of the streets and back streets was also attended to. The removal of filth and emptying of ashpits well looked after. Disinfectants freely used and distributed in the district.

The epidemic of small pox really terminated at the end of March. After that 6 cases only were reported, and occurred at 4 centres, 3 of the patients lived at 26 Pierson Street, the other 3 at 5 Louisa Street, 74 Smeaton Street, and 28 Kings Road.

On the 31st March there were 14 patients in the Small Pox Hospital at "Seldom Seen", and 2 cases were admitted afterwards, one from 74 Smeaton Street on April 1st and one from 5 Louisa Street on April 23rd. On the 15th of May one patient only remained in the hospital, all the others having been discharged cured. This patient with the consent of your Council, and by arrangement with the Middlesbrough Sanitary Authority, was removed to the Middlesbrough Fever Hospital on May 19th, and preparations were then made for closing the building. All loose material in the hospital was destroyed by burning, the bedding washed and thoroughly disinfected, and walls, floors, and beds washed with soft soap and warm water, then the wards and corridors fumigated with sulphur and afterwards all washed again with soft soap and warm water and allowed to dry, and all washed again with a solution of Perchloride of Mercury.

On the 21st of May the hospital was closed after being in use from February 10th, and having accommodated 35 patients - 30 having recovered and 5 died.

Since closing the Hospital 4 cases of Small pox arising in the District have been removed to the Middlesbrough Fever Hospital, 3 of them occurring at 26 Pierson Street, the final case being removed June 27th.

The first thing that was noticed in the night was
 the sound of the door opening, and a man with a
 white coat and a stethoscope around his neck
 entered the room. He looked at the patient and
 then at the nurse. The patient was lying in
 bed, looking very ill. The nurse told him
 that the patient had been sick all night.
 He then went to the door and looked out
 into the hallway. The hallway was empty.
 He then returned to the room and looked
 at the patient again. The patient was
 breathing very fast. He then called
 for another nurse. The nurse came and
 looked at the patient. She then called
 for a doctor. The doctor came and
 looked at the patient. He then said
 that the patient had a fever and
 was very ill. He then ordered
 some medicine to be given to the
 patient. The nurse gave the medicine
 to the patient. The patient then
 fell asleep. The nurse stayed by
 the patient's side until morning.
 In the night of the 15th, the patient
 was very ill and had a fever. The
 nurse called for a doctor. The doctor
 came and looked at the patient. He
 then said that the patient had a
 fever and was very ill. He then
 ordered some medicine to be given to
 the patient. The nurse gave the
 medicine to the patient. The patient
 then fell asleep. The nurse stayed
 by the patient's side until morning.
 The patient then died. The nurse
 called for a doctor. The doctor came
 and looked at the patient. He then
 said that the patient had died. The
 nurse then called for a priest. The
 priest came and said a prayer for
 the patient. The nurse then buried
 the patient.



View of 1st & 2nd Hospital Buildings at "Seldom Seen."



View of Nurses' Bedrooms & "Seldom Seen" Cottage.



Interior of one of the Wards at "Seldom Seen."



INFECTIOUS DISEASES SKETCH MAP.
DECEMBER 4th 1897.

Sketch Map of the
Ormesby District
Showing cases of
Small Pox. ●
Croup. ▲
Diphtheria. ○
notified during
1898.



G. H. Appleby
Dumfries, etc.

35 2000
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HOSPITAL
 COURTYARD
 DIPHTHERIA
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DRAWING FOR 1898

1898
 HOSPITAL
 DIPHTHERIA
 GROUP
 SMALL PLOT
 SHOWING AREA
 GROUPING PLAN
 Sketch map of

TABLE SHOWING FORTNIGHT BY FORTNIGHT THE NUMBER OF PERSONS REPORTED TO HAVE SUFFERED FROM TYPHOID FEVER IN THE ORMSBY DISTRICT.

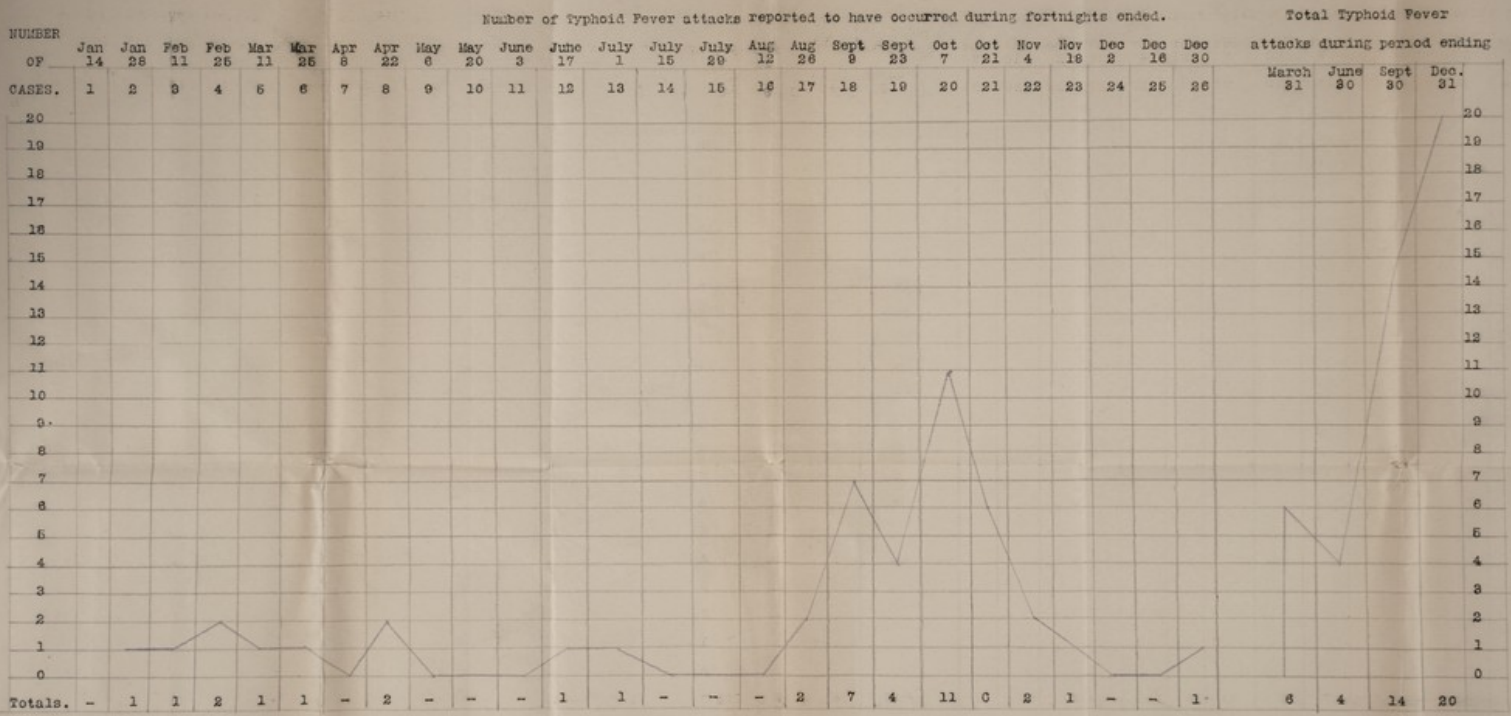
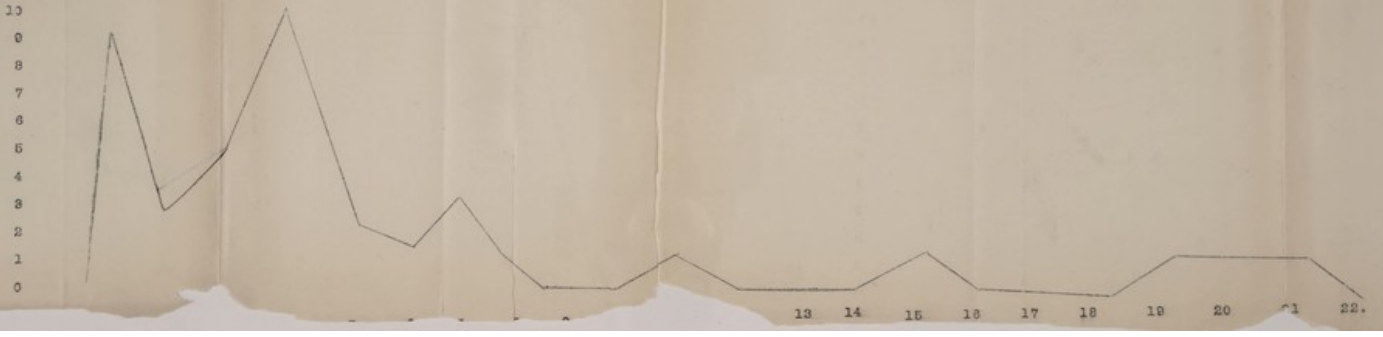


TABLE SHOWING PORT

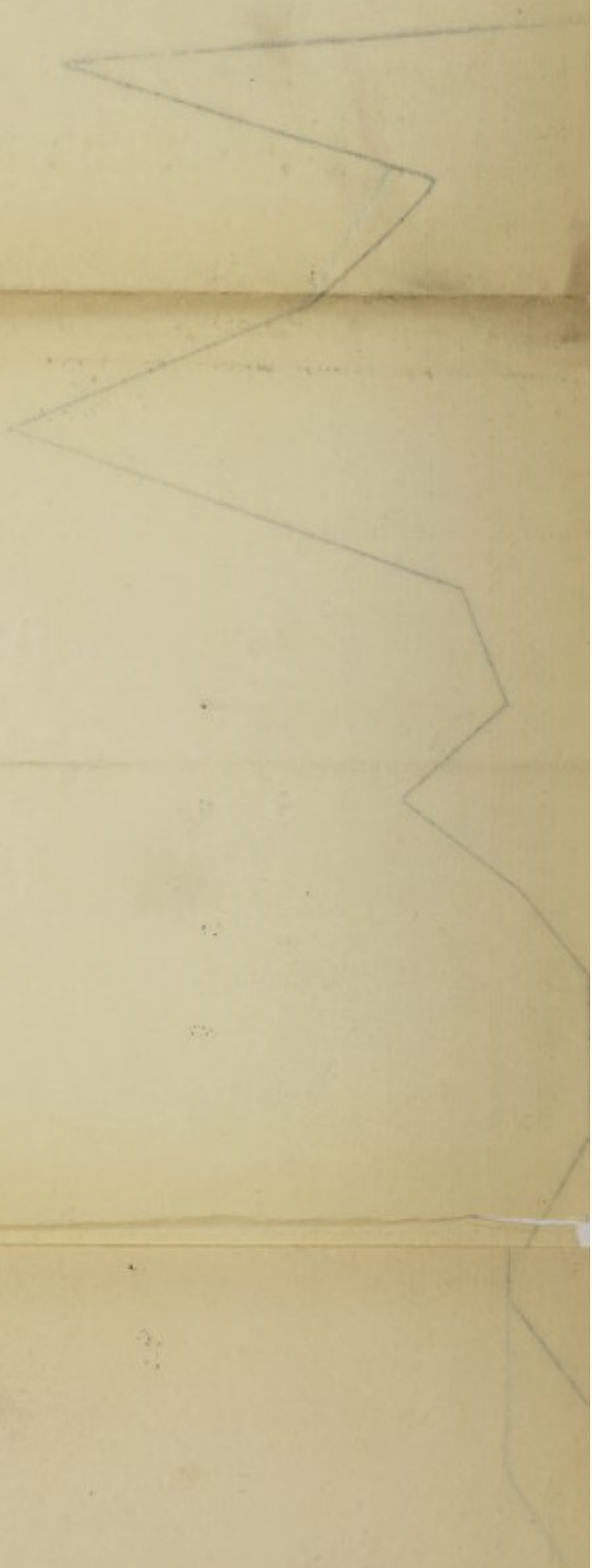
NUMBER	OF					
	Jan 14	Jan 28	Feb 11	Feb 25	Mar 11	Mar 25
CASES.	1	2	3	4	5	6
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CHART SHOWING CASES OF SMALL POX REPORTED FROM JANUARY 1st 1896 TO THE END OF THE EPIDEMIC.

AGES.	From	Jan 1	Feb 6	Feb 13	Feb 20	Feb 27	Mar 6	Mar 13	Mar 20	Mar 27	Apr 3	Apr 10	Apr 17	Apr 24	May 1	May 8	May 15	May 22	May 29	June 5	June 12	June 19	June 26	July 3	July 9
No of cases.	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
	Feb 6	Feb 13	Feb 20	Feb 27	Mar 6	Mar 13	Mar 20	Mar 27	Apr 3	Apr 10	Apr 17	Apr 24	May 1	May 8	May 15	May 22	May 29	June 5	June 12	June 19	June 26	July 3	July 9		
Under 5 years.						1							1			1					1	1	1		
5 years and over.	9	3	6	10	2	-	3	1					1			1						1	1	1	
Total.	9	3	6	10	2	1	3	1					1			1						1	1	1	



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LIST SHOWING CASES OF SMALL POX REPORTED FROM 19

LIST OF CASES OF SMALL-POX OCCURRING IN THE CRITCHBY URBAN DISTRICT. QUARTER ENDING 31st MARCH 1898.

No.	Sex.	Age.	Residence.	Date of attack	VACCINATION.		Quality of Marks.	When Vacc.	Adult Vacc.	Removed to Hospital.	Result.
					Vaccinated or not Vaccinated	No of marks					
1.	F.	3.	43 Smeaton St	Feb'y 5th	No					Feb'y 10	Recovered Feb'y 26.
2.	M.	24.	0 Karket Pl.	" 3.	Yes	3	Good	Infancy	No	" 10	" Mar. 25.
3.	F.	36.	38 Smeaton St.	" 4.	No.					" 10	" April 1 0.
4.	M.	25.	56 Morris St.	" 3.	Yes.	3	Good	do.		" 10	" Mar. 19.
5.	F.	56	31 Leven St.	" 4.	Yes	3		Bad	do	Feb'y 7.	" 10 " Feb. 28.
6.	F.	31.	43 Smeaton St.	" 5.	Yes.	3	Good	do	do	Feb'y 7.	" 10 " " 28.
7.	F.	17.	0 Short St.	" 8.	Yes.	None		do	do	" 10	" " Mar 12.
8.	F.	27.	50 Steavenson	" 8.	Yes.	1.		Bad.	do.	Feb'y 7.	" 10 " " 5.
9.	F.	27.	28 Charles St	" 10.	Yes	3	Fair	do.	do.	" 11	died " 8.
10.	F.	15.	20 Kings Rd.	" 10.	Yes.	3.	Good	do.	do.	" 13	Recovered " 5.
11.	F.	53.	46 Steavenson	" 11.	No.					" 17	Died Feb'y 23.
12.	M.	28.	56 Morris St.	" 8.	Yes.	1		Bad.	do.	Feb'y 8.	" 13 Recovered Mar 12.
13.	F.	5.	1 Jubilee St.	" 18.	No.					" 21	Died. Mar 2.
14.	F.	20.	5 HYMER St.	" 24.	No.					" 24	Recovered May 14.
15.	F.	17.	38 Stevenson	" 25	Yes.	3.	Good	do.	do.	" 25	" April 4.
16.	M.	53.	27 Worsley St.	" 25	No.					" 26.	Died Mar. 7.

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VACCINATION.

No.	Sex.	Age.	Residence.	Date of attack	Vaccinated or not Vaccinated	No of marks.	Quality of Marks.	When Vacc.	Adult Vacc.	Removed to Hospital.	Result.
17.	F.	23.	48 Pennyman St	Feb'y 25.	Yes.	3	Good	Infancy		Feb'y 26.	Recovered March 26.
18.	M.	24.	50 do.	" 26.	Yes.	2.	Good	do		" 27.	" April 4.
19.	F.	18.	16 Prospect Pl.	" 26.	Yes.	1.	Bad.	do		" 27.	" March 26.
20.	M.	33.	76 Mymer St. C.F.	" 26.	Yes.	1.	Good	do	Feb 10.	" 27.	" April 16.
21.	F.	19.	42 Worsley St.	" 27.	Yes.	4.	Good	do		" 28.	" 4.
22.	M.	21.	3 Louisa St.	" 28.	Yes.	2.	Good	do		Mar. 1.	" March 30.
23.	M.	22.	31 Leven St.	" 28.	Yes.	3.	Good	do		" 1.	" April 30.
24.	M.	16.	13 Market Pl.	Mar. 1.	Yes.	1.	Bad.	do		" 2.	" 20.
25.	M.	21.	Old Ormesby.	" 1.	Yes.	3.	Good	do		" 2.	" 15.
26.	M.	23.	6 Hampden St.	" 1.	Yes.	3.	Bad	do		" 3.	" 22.
27.	M.	31.	1 Jubilee St.	" 5.	Yes.	2.	Good	do	Feb 21.	" 5.	" March 25.
28.	F.	9.	34 Stevenson St.	" 12.	Yes.	None.				" 12.	Died. March 23.
29.	F.	30.	"Seldom Seen".	" 10.	Yes.	3.	Fair	do		" 12.	Recovered April 30.
30.	F.	1.	6 Hymer St.	" 15.	No.						" March 23.
31.	M.	13.	17 Queen St.	" 21.	Yes.	2.	Good	do		" 21.	" April 22.
32.	F.	35.	53 Stovin St.	" 22.	Yes.	1.	Good	do		" 22.	" 30.
33.	F.	18.	44 Tees St.	" 23.	Yes.	3.	Good	do		" 23.	" 20.

No.	Name	Age	Sex	Profession	Religion	Marital Status	Education	Income	Assets	Liabilities	Net Worth
1	John Doe	35	M	Teacher	Catholic	Married	High School	\$12,000	\$50,000	\$10,000	\$40,000
2	Jane Smith	28	F	Nurse	Protestant	Single	College	\$8,000	\$20,000	\$5,000	\$15,000
3	Robert Johnson	45	M	Engineer	Jewish	Married	University	\$15,000	\$75,000	\$15,000	\$60,000
4	Mary Williams	52	F	Homemaker	Methodist	Married	High School	\$6,000	\$30,000	\$8,000	\$22,000
5	James Brown	30	M	Student	Buddhist	Single	College	\$4,000	\$10,000	\$2,000	\$8,000
6	Sarah Davis	40	F	Accountant	Anglican	Married	University	\$10,000	\$40,000	\$12,000	\$28,000
7	Michael Miller	25	M	Software Developer	Muslim	Single	College	\$9,000	\$25,000	\$4,000	\$21,000
8	Elizabeth Taylor	55	F	Retired	Quaker	Married	High School	\$7,000	\$35,000	\$9,000	\$26,000
9	David Wilson	38	M	Manager	Hindu	Married	University	\$11,000	\$45,000	\$13,000	\$32,000
10	Linda Moore	48	F	Librarian	Sikh	Married	College	\$8,000	\$30,000	\$7,000	\$23,000

VACCINATION.

No.	Sex.	Ages.	Residence.	Date of attack.	Vaccinated or not Vaccinated.	No of marks.	Quality of Marks.	When Vacc.	Adult. re Vacc.	Removed to Hospital.	Result.
34.	F.	27.	74 Smeaton St.		Yes.	4.	Good	Infancy		April 1.	Recovered May 14.
35.	M.	26.	5 Louisa St.		Yes.	3.	Good	do		"Seldom Seen" April 23. Middlebro' Sanatorium May 18.	" " " June 1.
36.	M.	40.	28 Kings Rd.		Yes.	2.	1 Good 1 Fair	do		May 21.	" " " 15.
37.	M.	29.	26 Pierson St.		Yes.	2.	2 Good 2 Fair	do		June 15.	" " " July 8.
38.	M.	23.	"		Yes.	3.	3 Fair	June 18		" 24.	" " " 13.
39.	M.	21.	"		Yes.	3.	3 Fair	3 successful do.		" 27.	" " " 11.

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ANALYSIS OF CASES ADMITTED TO THE SMALL-POX HOSPITAL DURING THE
QUARTER ENDING MARCH 31st 1898.

		January.	February.	March.	Total.
Vaccinated.	Under 5 years.	-	-	-	-
	5 years and over.	-	15	11	26
Not Vaccinated.	Under 5 years.	-	-	1	1
	5 years and over	-	6	-	6
<hr/>					
Number of Vaccination	1	-	4	2	6
marks to be seen on	2	-	1	3	4
those said to have	3	-	8	6	13
been vaccinated.	4	-	1	-	1
	None.	-	1	1	2

Character of Vaccination marks.	No of <i>January</i>		No of <i>February</i>		No of <i>March</i>		Total.
	marks	Cases	marks	Cases	marks	Cases	
Good.	1		1	1	1	1	16
	2		2	1	2	3	
	3		3	6	3	3	
	4		4	1	4		
Fair.	1		1		1		2
	2		2		2		
	3		3	1	3	1	
	4		4		4		
Bad.	1		1	3	1	1	6
	2		2	0	2		
	3		3	1	3	1	
	4		4	0	4		
Not visible.				1		1	2

<u>RESULT.</u>		<i>February</i>	<i>March</i>	<u>Note A.</u>	
Death.	Vaccinated.			2	2
	Not Vaccinated.		1		3
Cured.	Vaccinated.		2		10
	Not Vaccinated.		1		1

Note A. includes a woman of 27 years having 3 good primary Vaccination marks, and a child of 9 years said to have been vaccinated, but having no marks of Vaccination.

14 Patients remained under treatment in the Hospital at "Seldom Seen" on the 31st March.

Analysis of Cases notified and removed for isolation from March 31st to the end of the Epidemic.

		April.	May.	June.	Total.
Vaccinated.	Under 5 years				
	5 years and over.	2	1	3	6
Not Vaccinated.	Under 5 years				
	5 years and over.				
<hr/>					
Number of Vaccination	1				
marks to be seen on	2		1		1
those said to have	3	1		2	3
been vaccinated.	4	1		1	2
	None.				

Character of Vaccination marks.	Two cases. One having 3 good marks and one having 4 good marks.	One Case having one good and one fair mark.	Three cases. Two having 3 fair marks and one having 2 good and 2 fair marks.
---------------------------------	---	---	--

RESULT. No Deaths occurred after March 31st.

QUARTER ENDING MARCH 31st 1898.

Month	January	February	March	Total	Remarks
					Under 5 years.
					5 years and over.
					Not vaccinated.
					Vaccinated.
					Number of vaccination
					marks to be seen on
					those said to have
					been vaccinated.
					None.

Character of vaccination marks.	No of January	No of February	No of March	Total
Good.	1	1	1	3
Fair.	2	1	1	4
Bad.	3	3	3	9
Not visible.	4	4	4	12

Result.	No of January	No of February	No of March	Total
Cured.	1	1	1	3
Not Vaccinated.	2	1	1	4
Death.	3	3	3	9
Vaccinated.	4	4	4	12

Note A. Includes a woman of 27 years having 3 good primary vaccinations years said to have been vaccinated, but having no marks of vaccination. 14 patients remained under treatment in hospital at Belcher Street. Analysis of cases notified and removed from isolation from various dates. April. May. Under 5 years. 5 years and over. Not vaccinated. Vaccinated. Character of vaccination marks. Good marks and one having 2. 5 years and over. Under 5 years. Number of vaccination. 1

In the following table the figures given are for:-

Gloucester, the first 686 cases. (1895-6)
 Middlesbrough, up to the end of February.
 Ormesby District, to the end of the Epidemic.

AGES.	UNVACCINATED.				VACCINATED.														
	GLouceSTER.	MIDDLESBROUGH.	ORMESBY.	GLouceSTER.	MIDDLESBROUGH.	ORMESBY.	ORMESBY.												
0 to 5 yrs	127	70	55.1	13	6	46.1	1	0	0.0	0	0.0	0	0.0						
5 to 10 "	161	58	36.0	23	9	39.1	2	1	50.0	6	0	0	0.0	24	0	0.0	1	1	Note A.
10 to 15 "	16	4	25.0	11	2	18.1	0	0	0.0	41	1	1	2.4	58	2	3.40	0	0	0.0
15 to 20 "	8	6	75.0	11	4	36.3	0	0	0.0	40	1	1	2.5	97	2	2.06	8	0	0.0
20 to 30 "	6	2	33.3	44	27	61.3	4	2	50.0	270	27	27	10.0	394	42	10.60	23	1	4.3
over 60 "	0	0	0.0	3	1	33.3	0	0	0.0	11	3	3	27.2	3	1	33.30	0	0	0.0
Totals.	313	140	44.0	105	49	46.6	7	3	42.8	368	32	32	8.7	681	48	8.20	32	2	6.2

Note A. No vaccination marks.

The figures for the Gloucester Epidemic are from Dr Coupland's report; and for Middlesbrough from official sources as quoted in the British Medical Journal for April 9th 1898.

returned as follows in the British Medical Journal for April 2nd 1883.

The following are the dissected specimens etc from the compound's report and the Middlesex Hospital from 1883.

Note A. No vaccination marks

Year	Age	Sex	Location	Case	Mortality	Per cent	Age	Sex	Location	Case	Mortality	Per cent	Age	Sex	Location	Case	Mortality	Per cent
1883	10	M	St. Pancras	10	1	10.0	10	M	St. Pancras	10	1	10.0	10	M	St. Pancras	10	1	10.0
1882	10	M	St. Pancras	10	1	10.0	10	M	St. Pancras	10	1	10.0	10	M	St. Pancras	10	1	10.0
1881	10	M	St. Pancras	10	1	10.0	10	M	St. Pancras	10	1	10.0	10	M	St. Pancras	10	1	10.0

Dissected, the first and second cases, (1882-3)

Middlesex Hospital up to the end of February.

Dissected, the first and second cases, (1882-3)

In the following table the figures given are for-

VACCINAL POSITION OF PERSONS ATTACKED.

	UNDER 10 YEARS.				OVER 10 YEARS.			
	Unvaccinated.	Vaccinated	Unvaccinated.	Vaccinated.	Unvaccinated.	Vaccinated.	Unvaccinated.	Vaccinated.
	Total.	Percent.	Total.	Percent.	Total.	Percent.	Total.	Percent.
Gloucester Epidemic.	680	34.4	26	1.3	88	4.5	1182	59.7
Middlesbrough to the end Feb.	36	5.2	29	4.2	69	10.0	552	80.4
Ormesby Epidemic.	3	7.6	1 note A.	2.5	4	10.2	31	79.4

Note A. No vaccination mark.

REMARKS. The Gloucester Epidemic was largely one of unvaccinated children.

Middlesbrough and Ormesby being well vaccinated, the adults who had more or less lost the protective^{on} afforded by Vaccination in infancy were mainly attacked.

Small Pox Death rate in Gloucester Epidemic to March 31.
(830 cases 212 deaths) Per cent 24.9

Small Pox Death rate in Middlesbrough Epidemic from November 22 to March 31 (1200 cases 153 deaths) Per cent 12.7

Small Pox Death rate in Ormesby Epidemic from commencing to end (39 cases 5 deaths) per cent 12.6.

Remarks on cases admitted into the Hospital.

The protective value of Vaccination against Small pox was again proved by the results following the Epidemic in the Ormesby District 4 children only under ten years of age were admitted out of the whole population, 3 of whom had never been vaccinated, the other was said to have been, but although only 9 years of age had no marks of vaccination so that if it had been done its value was nil.

Of those who died, one was a woman of 27 years who had been vaccinated in infancy; 2 were adults who had not been vaccinated

Year	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930
Total Income	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Income from																					
Agriculture																					
Manufacturing																					
Retail																					
Professional																					
Other																					

The following table shows the results of the investigation into the causes of the epidemic of influenza in the United States during the winter of 1918-1919. The epidemic was largely due to the spread of the virus from the East to the West. The epidemic was first reported in the United States in the month of September, 1918, and it spread rapidly to the West. The epidemic was first reported in the United States in the month of September, 1918, and it spread rapidly to the West. The epidemic was first reported in the United States in the month of September, 1918, and it spread rapidly to the West.

The protective value of vaccination against influenza was shown by the results following the epidemic in the United States. The epidemic was first reported in the United States in the month of September, 1918, and it spread rapidly to the West. The epidemic was first reported in the United States in the month of September, 1918, and it spread rapidly to the West. The epidemic was first reported in the United States in the month of September, 1918, and it spread rapidly to the West.

and one the girl of 9 years, who was said to have been vaccinated but had no scars due to vaccination.

The modifying influence of Vaccination was also upheld for looking back on the severity of the cases apart from those who died, the most serious cases were two unvaccinated cases 3 and 14, both of which almost died in the first days of the disease.

and the first of 2 years, who can hold in their hands
and had no power but to wait.
The next thing to be done is to get the
money back on the account of the money that was
sent to the bank which was not returned to me
and the bank which sent it to the bank of the
country.

Re-Vaccination. No person who had within a reasonable time been re-vaccinated before exposure to Small Pox contracted the disease. The following cases were investigated to clear up doubt as to the efficacy of re-vaccination in preventing an attack of Small Pox, each of these people having developed the disease, it was said, after being re-vaccinated.

1. The Cook at the Hospital (case 29) who reported on going to the Hospital to commence duty that she had been re-vaccinated this was found to be untrue.

2. A labourer (case 31) employed by the District Council in helping to remove cases, and sent to be re-vaccinated, who afterwards reported himself as having been done. This was also untrue.

3. A labourer (case 20) engaged from Feb. 6 in attending to the wants of those not allowed to leave houses infected with Small-Pox until the cases could be removed and the premises disinfected, employed on 10th Feb. and afterwards in helping to remove patients to hospital. Re-vaccinated Feb. 10, ill on the 22nd, rash out on the 24th and patient removed to hospital on the 27th. Re-vaccination was performed too late, had it been performed a few days earlier it would undoubtedly have prevented this patient developing Small-Pox.

4. Cases 38 and 39 were re-vaccinated after being exposed to Small-Pox for several days at 26 Pierson Street.

Origin of Cases. It was impossible to trace the source of infection in all instances, so many cases were left at their homes in Middlesbrough till they recovered or died, that the inhabitants of the Ormesby District might contract Small-Pox as a result of visiting or working in Middlesbrough, or infection could be imported into the district without it being possible to trace the origin afterwards. Some of the cases without doubt originated in Middlesbrough.

Case 2 (Feb 6) was a pawnbroker whose place of business was in Middlesbrough. He came to North Ormesby to be nursed with Small-Pox.

Case 5 was reported by a neighbour. At the time of my visit she was going about the house doing her house work and had continued to do so from the commencement of her illness. She had practically recovered from Small-Pox when removed to the Hospital.

Case 23 was a second case arising at the same house and there is good reason for believing that case 18 had its origin at this house, for the patient worked along with the son of the first patient removed from here.

Cases 7 and 11 nursed case 8 during her confinement, all three were removed with Small-Pox. The origin of this group was probably a lodger in the house of case 8, who was off work ill for 4 days during the second week in January.

No Doctor attended him and he had a papular rash out on the face.

Case 12 was derived from case 4 both occurring in the same house.

The same applied to Cases 13 and 27.

Cases 1 and 6 were concurrent.

Case 14 was believed to have been contracted at Middlesbrough.

Case 15 came home ill with Small-Pox from Middlesbrough.

Case 16 was a Debt Collector attending the Middlesbrough County Court and chiefly employed in Collecting Debts from houses in Middlesbrough.

Cases 17 and 18 were from adjoining houses.

Case 19 was a girl in service in Middlesbrough who came home ill.

Cases 20 and 31 were men employed by the District Council in removing cases of Small-Pox and mentioned previously under heading of Re-Vaccination.

Case 21 was a sister of case 17 and I have no doubt there was a connection between these cases. Visiting went on between these two houses during the whole of the incubation period.

Case 22 was believed to have had its origin in Middlesbrough.

Case 23 was a second one from 31 Leven Street.

Case 24 a butcher employed in the Middlesbrough Market.

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Case 25 had business which took him a good deal into Middlesbrough.

Case 27 was a second case at 1 Jubilee Street.

Case 29 a cook at the Hospital, see note on re-vaccination.

Case 30 the mother of this child had a fortnight before gone as a Charwoman to a house in Middlesbrough where there was a case of Small-Pox being nursed at home.

Allowing for the incubation period and the fact of the woman not having been exposed elsewhere to infection, so far as I could tell, the origin appeared to be due to the mother working at the infected house in Middlesbrough.

Case 33 was a Ward maid from the Small-Pox Hospital, Middlesbrough; who after taking a situation there, ran away and took charge of a woman recently confined in North Ormesby and slept with the lying in woman.

The above facts will show how exposed this district really was to Small-Pox from Middlesbrough.

North Ormesby is a continuation of Middlesbrough; so built that had it not been for the most active and decisive measures taken for dealing with every case as it arose, and the united action of the District Council and those officially responsible for the health of the District, the spread of Small-Pox in North Ormesby would have been rapid and almost unlimited. The epidemic was well kept in hand from the commencement but the work was difficult and often disheartening. The Guardians of Middlesbrough also did their very utmost to have everyone vaccinated or re-vaccinated. The deaths were equal to 1 in about 2000 of the population for Ormesby against 1 in 445 for Middlesbrough. Estimating their population at 90,000 and ours at 10,000 we should have had 156 cases, calculated at the same rate as in Middlesbrough, with 22 deaths, against 39 cases and only 5 deaths, as actually occurred ~~on~~ a saving of 117 cases, with 17 deaths prevented.

The results obtained more than compensate for the increased rates due to necessarily increased expenditure, and it should be remembered that the limiting of this epidemic has certainly

saved much sickness, many lives and much sorrow, and the amount expended for such ends is money well and wisely spent.

The three following tables are taken from a paper read by the Medical Officer of Health for Middlesbrough Dr Dingle before the Northern Branch of the Incorporated Society of Medical Officers of Health at Newcastle-on-Tyne October 1898, and published in "Public Health" December 1898.

They give the particulars of the whole of the cases occurring in Middlesbrough during the Epidemic.

The first of these is the fact that the
 government has been unable to raise
 the necessary funds to meet its
 obligations. This is due to a
 number of factors, including the
 fact that the government has been
 unable to attract foreign investment
 and has had to rely on borrowing
 from abroad. This has led to a
 large accumulation of foreign debt
 which is now becoming a major
 problem for the government.

The second factor is the fact that
 the government has been unable to
 control inflation. This is due to
 a number of factors, including the
 fact that the government has been
 unable to reduce its budget deficit
 and has had to print money to
 cover its expenses. This has led
 to a rapid increase in the price
 level, which is now reaching
 alarming proportions. This is
 causing a severe loss of confidence
 in the government and is leading
 to a general state of economic
 chaos.

The third factor is the fact that
 the government has been unable to
 reform its tax system. This is due
 to a number of factors, including
 the fact that the government has
 been unable to attract foreign
 investment and has had to rely on
 borrowing from abroad. This has
 led to a large accumulation of
 foreign debt which is now
 becoming a major problem for the
 government.

The fourth factor is the fact that
 the government has been unable to
 control its expenditure. This is due
 to a number of factors, including
 the fact that the government has
 been unable to reduce its budget
 deficit and has had to print money
 to cover its expenses. This has
 led to a rapid increase in the
 price level, which is now reaching
 alarming proportions.

MIDDLESBROUGH EPIDEMIC.

TABLE A.

AGE PERIOD.	Total Attack	AMONG VACCINATED.			AMONG UNVACCINATED.		
		Persons attacked	Died	Fatality per cent of attacks.	Persons attacked	Died	Fatality per cent of attacks.
Under 1 year.	10	3	0	0·0	7	6	71·4
1 to 5 years.	25	7	0	0·0	18	8	44·4
5 to 10 "	72	35	0	0·0	37	16	43·5
10 to 15 "	141	120	2	1·6	21	4	19·0
15 to 25 "	477	435	22	5·0	42	16	37·2
25 to 60 "	679	607	81	13·1	72	45	62·5
60 and over.	7	6	3	50·0	1	0	0·0
All ages.	1411	1213	108	8·8	198	94	47·4

TABLE B.

Comparison of Fatalities among Children under 10 years of age.
From the Final Report of the Royal Commission on Vaccination.

Epidemic at.-	VACCINATED.			UNVACCINATED.		
	Attacks.	Deaths.	Fatality per cent of attacks.	Attacks.	Deaths.	Fatality per cent of attacks.
Sheffield.	353	6	1·7	228	100	43·9
London.	130	6	4·6	228	61	26·7
Dewsbury.	45	1	2·2	174	56	32·1
Warrington.	33	2	6·0	32	12	37·5
Leicester.	2	0	0·0	107	16	14·0
Gloucester.	26	1	3·8	680	279	41·0
Middlesbrough.	45	0	0·0	62	29	46·7

MIDDLESBROUGH EPIDEMIC.

TABLE A.

AGE PERIOD.	Total	AMONG UNVACCINATED.		Persons attacked	Fatalities per cent of attacks.
		Persons attacked	Died		
Under 1 year.	19	3	0	7	0.0
1 to 2 years.	25	7	0	18	0.0
2 to 3 "	72	22	0	37	0.0
3 to 4 "	141	120	2	21	1.9
4 to 5 "	477	422	22	43	8.0
5 to 6 "	670	607	31	73	13.1
6 to 7 "	7	6	2	1	20.0
All ages.	1411	1212	108	198	8.3

TABLE B.

Comparison of Fatalities among Children under 15 years from the Final Report of the Royal Commission on

UNVACCINATED	Fatalities per cent of attacks.	Persons attacked.	Deaths.	Episodes at
328	1.7	6	368	Sheffield.
328	2.6	6	180	London.
174	2.2	1	42	Donbury.
32	8.0	2	32	Warrington.
157	0.0	0	2	Leicester.
680	3.8	1	28	Gloicester.
82	6.0	0	48	Middlesbrough.

MIDDLESBROUGH EPIDEMIC.

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5 to 10 "	72	35	0	0·0	37	16	43·5
10 to 15 "	141	120	2	1·6	21	4	19·0
15 to 25 "	477	435	22	5·0	42	16	37·2
25 to 60 "	679	607	81	13·1	72	45	62·5
60 and over.	7	6	3	50·0	1	0	0·0
All ages.	1411	1213	108	8·8	198	94	47·4

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Leicester.	2	0	0·0	107	16	14·0
Gloucester.	26	1	3·8	680	279	41·0
Middlesbrough.	45	0	0·0	62	29	46·7

TABLE C

Analysis of Rates and Quality of Vaccination of 1,2

Vaccinated persons attacked.

AGE PERIOD	1 MARK		2 MARKS		3 MARKS		4 MARKS
	Good	Bad	Good	Bad	Good	Bad	
Under 1 year	1	-	-	-	1	-	21
1 and under 5 years	-	1	3	-	-	-	3
5 " " 15 "	7	1	10	-	4	1	12
15 " " 25 "	13	1	28	8	24	5	32
25 " " 35 "	48	5	108	18	88	9	128
35 " " 45 "	68	17	208	68	161	19	224
45 years and over	1	-	3	1	1	-	5
Totals	188	23	388	96	197	34	370
Grand Totals	183		484		231		434

The total cost of this epidemic in Massachusetts was over \$20,000. Following are some of the principal items: Buying and erecting iron buildings and erecting wooden ditches \$2,120; Plumbing and painting \$1,100; Provisions \$1,400; Lymph, drugs, and disinfectants \$2,000; of the larger items; there were a hundred and one other expenses. The cost of the Grand epidemic was \$1,177. The larger items of

Buildings	402.
Plumbing and fitting	84.
Painting	180.
Provisions	102.
Lymph, drugs, and disinfectants	68.
Wages	188.
Compensation for bedding, clothing, &c. destroyed	52.

Six cases of Typhoid Fever were notified in the first three months of the year, and 4 in the second quarter. From the 30th of June to August 15th no case occurred but 33 were reported from that date to November 15th and a total of ~~43~~⁴⁴ for the year. Some of the cases have arisen where nuisances were found to exist, as for example at 19 King's Road, 77 Telford Street, Toll Bar Cottages, Cargo Fleet, and 63 Hampden Street, but in many instances it was impossible to state the probable cause.

Diarrhoea and Typhoid Fever were both very prevalent in August and September and there appeared to be a common cause for these diseases.

The conditions generally held to assist in the spread of Typhoid Fever are:-

Milk Supplies.

Water Supply.

Sewage.

Excrement disposal.

MILK SUPPLIES:- It does not appear to me that the outbreak of Enteric Fever in the Ormesby District can be connected in any way with Milk.

The WATER SUPPLY for North Ormesby is derived from the works of the Stockton & Middlesbrough Water Board. For Cargo Fleet and Ormesby the supply is from wells and a reservoir, near to Ormesby Bank, belonging to Miss Brown.

There was no case of Typhoid Fever at Ormesby Village, and 2 only at Cargo Fleet, viz.- Toll Bar Cottages, the water supply for these being obtained from the Stockton & Middlesbrough Water Board, but the Cottages were in such a dilapidated and insanitary condition as to be certified unfit for habitation.

The present outbreak of Typhoid Fever occurred under opposite conditions to the epidemic of 1890 and 1891, which it will be remembered affected the districts supplied with water obtained from the works of the Stockton and Middlesbrough Water Board.

Then, immediately antecedent to the epidemic outbursts, sudden floods occurred, but the present outbreak was preceded by long continued hot and dry weather and only after heavy rainfalls was there a diminution in the number of cases notified.

North Ormesby itself is fairly well built. The streets which are at right angles to one another are of good width, there is little or no crowding of houses together, there are no back to back houses and there is a free circulation of air at the rear of the houses. The back streets are paved with Scoriae bricks and the main streets macadamised.

EXCREMENT & REFUSE DISPOSAL:- Midden privies are general throughout the district, but many have been converted into pan closets during late years and others have had the floor of the midden raised above the surface level. At North Ormesby the middens are emptied about every three weeks and the night soil removed in open carts about 2 miles away and used for agricultural purposes. At Ormesby the scavenging is done by the tenants.

Water closets are in use in some of the houses in North Ormesby but there is usually a midden privy in addition. In North Ormesby, Ormesby, and Cargo Fleet, the total number of water closets is about 25, Pan closets 487, Middens 812. These midden privies are in double rows behind the parallel rows of dwelling houses and only a few feet from the kitchen door or window. The brickwork is only $4\frac{1}{2}$ " in thickness and there is often soakage into the yards which in many instances are still badly paved although a number of the worst have been repaved with scoriae bricks or cemented. That they are a nuisance is an established fact. The ground below them is saturated with filth the smell from which is so horrible that doors and windows must often be kept closed.

The emptying of them is a source of danger from the throwing of the liquid filth on the surface of the back streets, and it is also impossible to cleanse the bottom and sides of such middens.

SEWAGE & DRAINAGE:- North Ormesby is sewered with stoneware

Faint, illegible text, likely bleed-through from the reverse side of the page. The text is arranged in several paragraphs and is difficult to decipher due to its low contrast and orientation.

pipes discharging into a tidal beck flowing into the Tees.

The sewers pass down the back streets and are provided with manholes having catch pits and are ventilated. Very few of the houses have now slop sinks connected with the yard gully the rule being to carry the waste pipe outside to discharge over a trapped gully grating in the yard.

Ormesby village is drained by a highway stream having its outfall into a water course.

The Drainage of the district will be found marked on the Typhoid Fever Sketch Map.

The first part of the paper is devoted to a description of the apparatus used in the experiments. The second part contains a description of the method of measuring the rate of reaction. The third part contains a description of the results obtained. The fourth part contains a discussion of the results. The fifth part contains a summary of the work.

MEASURES TAKEN IN DEALING WITH THE PREVALENCE OF TYPHOID FEVER.

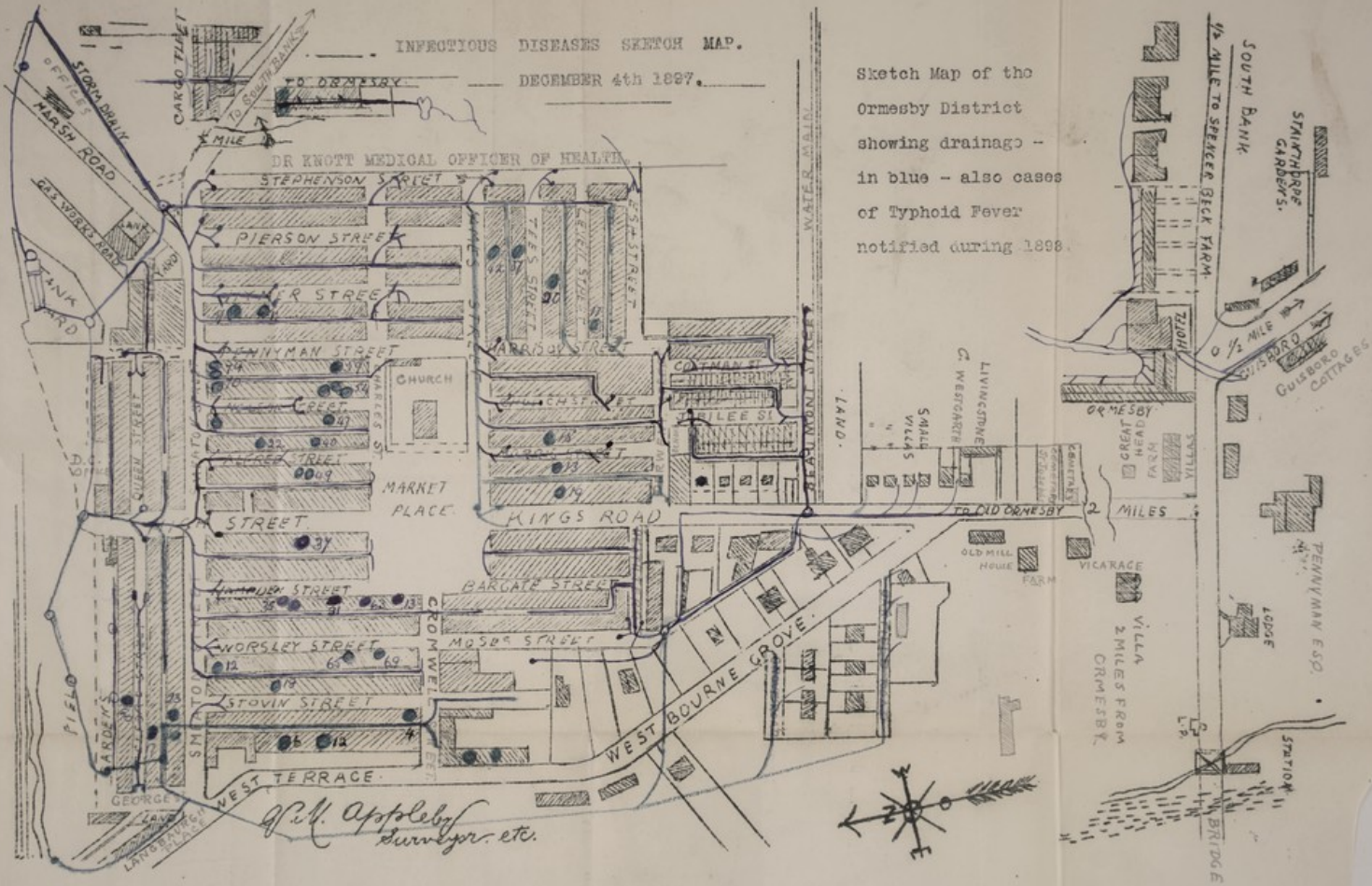
As a precaution it was recommended by hand bills that all water should be boiled before being drunk and all milk treated in the same way before being used. Careful attention was paid to the removal of filth accumulations.

All manholes, street and yard gullies were cleaned out, sewers flushed and sewage tanks cleaned. The Street gullies after being cleaned out had disinfectants put into them and the streets were watered with a disinfectant, the middens emptied and well sprinkled with hot lime and where Typhoid Fever was known to exist disinfectants were given and pans supplied for collecting the discharges from the patient and removed each day, or second day for the contents to be burnt with tar and paraffin. The majority of the cases were nursed at home by relatives, the District Nursing Association supplying a District ~~Nurse~~
Nurse who as a rule visited each case twice a day.

As a precaution it was recommended by the Board of Health that water should be boiled before being drunk and all milk should be pasteurized in the same way before being used. Great attention was paid to the removal of fish from the market. All markets, streets and public places were cleaned and sewers flushed and sewage tanks cleaned. The Board of Health also caused to be placed out for disinfection all articles which the public were warned with a disinfectant. The markets were kept clean and well supplied with fish and other articles. It was known to exist disinfectants were used and were supplied for collecting the disinfectant from the markets and removed every day or second day for the purpose of being kept for use. The majority of the cases were removed as here by relatives, the Board of Health being notified. A list of names of the cases was given to the Board of Health.

INFECTIOUS DISEASES SECTOR MAP.

DECEMBER 4th 1897.



Sketch Map of the Ormesby District showing drainage - in blue - also cases of Typhoid Fever notified during 1898.

*J. H. Appleby
Surveyor, etc.*

MEASLES. Less than a dozen cases were brought under my notice until the middle of December when there was a smart outbreak in North Ormesby and about 50 cases were known to have occurred in the last fortnight of December.

CHICKEN-POX was almost absent.

WHOOPIING COUGH was limited to a very small number of cases.

MEMBRANOUS CROUP & DIPHTHERIA. One case of each was reported in the March Quarter and one of Croup in the 3rd quarter. During the year 3 deaths occurred from Croup one being due to Spasmodic Croup, but no deaths resulted from Diphtheria.

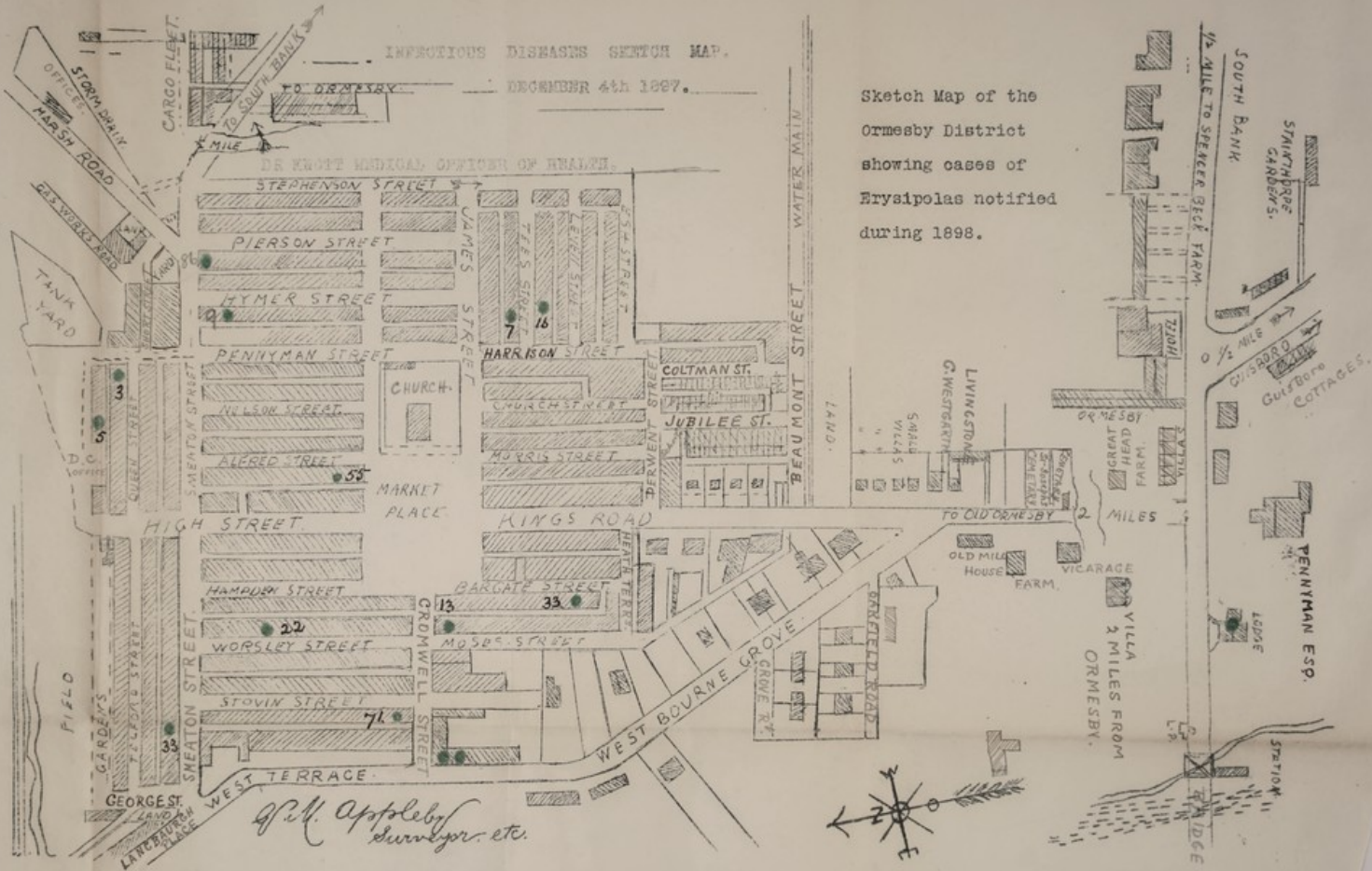
DIARRHOEA was very prevalent during August and September. The greatest number of cases occurring on Sunday the 14th of August. This and Saturday August 13th were unusually hot days followed by a long period of hot, dry weather, during the whole of that time Diarrhoea continued as a common ailment amongst the inhabitants. The mortality of Infants for the September Quarter was excessive - 24 deaths under 1 year out of a total of 41 at all ages - due to Diarrhoea and allied diseases, viz.- diseases of the Digestive System and Marasmus following the same. Probably Infantile Diarrhoea was greatly the result of changes arising in milk foods as a consequence of the excessive-ly hot weather. Hand bills were distributed ^{throughout} ~~about~~ the district advising that water and milk be boiled before drinking either.

SCARLET FEVER. In my report for 1897 I referred to the existence of Scarlet Fever in North Ormesby during the whole of that year, the largest number of cases being notified in the December quarter. There was a continuance of the disease during the first 6 months of the past year. 12 cases being notified in the 1st and 16 in the 2nd quarter of 1898 but 2 only in the September quarter and 6 in the last 3 months of the year. One death only occurred during 1898.

INFECTIOUS DISEASES SECTION MAP.

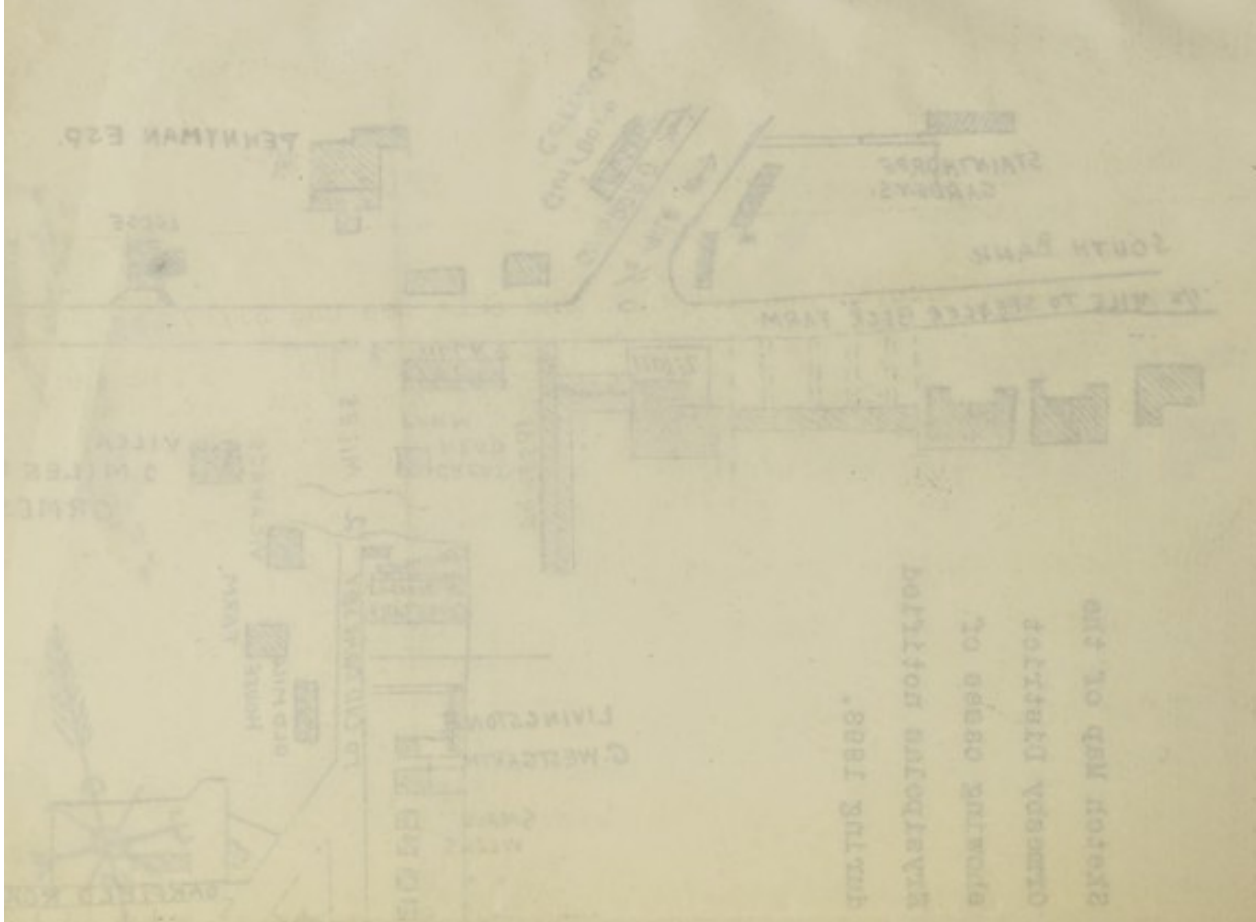
DECEMBER 4th 1897.

DR. KNOTT MEDICAL OFFICER OF HEALTH.



Sketch Map of the Ormesby District showing cases of Erysipelas notified during 1898.

G.M. Appleby
Surgeon, etc.



1881 JULY
 BATHING HOUSES
 TO BE BUILT
 ON THE
 SOUTH BANK



1881 JULY
 BATHING HOUSES
 TO BE BUILT
 ON THE
 SOUTH BANK

REPORT OF ALL INFECTIOUS CASES NOTIFIED DURING THE YEAR 1898.

DATE.	ADDRESS.	DISEASE.	REMARKS.
Jan'y 3/98.	6 Westbourne Grove.	Scarlet F.	2nd case see Dec 31/97.
11.	Cottage Hospital.	" "	Admitted Jan'y 9th with Scalds from 44 Gurney St, Middlesbro' Removed to Middlesbro' Fever Hospital January 12th.
22.	do.	" "	Removed to Worsley House.
25.	33 Bargate St.	Erysipelas.	No Sanitary defects.
26.	15 Morris St.	Scarlet F.	Origin unknown, objectionable gully in yard.
26.	7 Tees St.	Erysipelas.	After burns with Carbolic Acid. Disused scullery sink waste pipe passing under scullery floor, offensive gully in yard.
26.	5 Louisa St.	"	Sanitary condition of house good.
28.	16 Tees St.	"	No Sanitary defects.
28.	49 Alfred St.	Typhoid F.	Deep Ashpit, cause of Fever unknown, 2nd ^{Case} April 9.
Feb'y 4/98.	37 High St.	" "	Imported from Middlesbrough no defects.
6.	43 Smeaton St.	Small-Pox.	Case 1. S. P.
6.	6 Market Pl.	"	Case 2. S.P.
6.	38 Smeaton St.	"	Case 3. S. P.
7.	56 Morris St.	"	Case 4. S. P.
8.	13 Cromwell St.	Erysipelas.	
9.	31 Leven St.	Small-Pox	Case 5. S. P.
10.	43 Smeaton St.	"	Case 6. S. P.
10.	9 Short St.	"	Case 7. S. P.
10.	50 Stevenson St.	"	Case 8. S. P.
11.	28 Charles St.	"	Case 9. S. P.
11.	6 Harrison St.	Scarlet F.	Source of disease could not be ascertained. Scullery sink waste pipe not trapped and discharging directly into yard gully.
13.	26 Kings Road.	Small-Pox	Case 10. S. P.
14.	77 Telford St.	Typhoid F.	Offensive gully in yard.

DATE.	ADDRESS.	DISEASE.	REMARKS.
Feb 17/98.	46 Stevenson St.	Small-Pox.	Case 11. S. P.
18	56 Morris St.	"	Case 12. S. P.
18.	"Worsley Arms."	Typhoid F.	Sanitary condition of premises fairly good.
21.	1 Jubilee St.	Small-Pox.	Case 13. S. P.
24.	5 Hymer St.	"	Case 14. S. P.
25.	28 Stevenson St.	"	Case 15. S. P.
26.	37 Worsley St.	"	Case 16. S. P.
26.	48 Pennyman St.	"	Case 17. S. P.
26.	19 Kings Road.	Typhoid F	Scullery sink waste pipe not trapped and appears to discharge into house drain which was stopped. Offensive urinal in corner of yard.
27.	50 Pennyman St.	Small-Pox.	Case 18. S. P.
27.	15 Prospect Pl. Cargo Fleet.	"	Case 19. S. P.
27.	76 Hymer St.	"	Case 20. S. P.
28.	42 Worsley St.	"	Case 21. S. P.
28.	3 Louisa St.	"	Case 22. S. P.
28.	38 Bargate St.	Scarlet F.	Cause unknown. Deep ash-pit March 5th, 2nd case.
Mar 1/98.	31 Leven St.	Small-Pox.	Case 23. S. P.
2.	13 Market Pl.	"	Case 24. S. P.
2.	"Sundial" Ormesby.	"	Case 25. S. P.
3.	6 Hampden St.	"	Case 26. S. P.
5.	1 Jubilee St.	"	Case 27. S. P.
5.	38, Bargate St.	Scarlet F.	2nd Case. See Feb 28th.
8.	6 Heath Ter.	" Cause	unknown. No Sanitary defects. A 2nd case March 22nd.
8.	33 Smeaton St.	Erysipelas.	No Sanitary defects.
12.	94 Stevenson St.	Small-Pox.	Case 28. S. P.
12.	"Seldom Seen"	"	Case 29. S. P.
14.	11 Prospect Pl.	Scarlet F.	No Sanitary defects. Origin of Fever unknown.
15.	6 Hymer St.	Small-Pox.	Case 30. S. P.
16.	41 Pennyman St.	Croup.	No Sanitary defects. Death.
18.	41 Leven St.	Scarlet F.	do. cause unknown.

10	41 Leavenworth St.	Scarlet F.	Case 19, S. P.
11	41 Pennycuik St.	Scarlet F.	Case 20, S. P.
12	41 Leavenworth St.	Scarlet F.	Case 21, S. P.
13	41 Leavenworth St.	Scarlet F.	Case 22, S. P.
14	41 Leavenworth St.	Scarlet F.	Case 23, S. P.
15	41 Leavenworth St.	Scarlet F.	Case 24, S. P.
16	41 Leavenworth St.	Scarlet F.	Case 25, S. P.
17	41 Leavenworth St.	Scarlet F.	Case 26, S. P.
18	41 Leavenworth St.	Scarlet F.	Case 27, S. P.
19	41 Leavenworth St.	Scarlet F.	Case 28, S. P.
20	41 Leavenworth St.	Scarlet F.	Case 29, S. P.
21	41 Leavenworth St.	Scarlet F.	Case 30, S. P.
22	41 Leavenworth St.	Scarlet F.	Case 31, S. P.
23	41 Leavenworth St.	Scarlet F.	Case 32, S. P.
24	41 Leavenworth St.	Scarlet F.	Case 33, S. P.
25	41 Leavenworth St.	Scarlet F.	Case 34, S. P.
26	41 Leavenworth St.	Scarlet F.	Case 35, S. P.
27	41 Leavenworth St.	Scarlet F.	Case 36, S. P.
28	41 Leavenworth St.	Scarlet F.	Case 37, S. P.
29	41 Leavenworth St.	Scarlet F.	Case 38, S. P.
30	41 Leavenworth St.	Scarlet F.	Case 39, S. P.
31	41 Leavenworth St.	Scarlet F.	Case 40, S. P.
32	41 Leavenworth St.	Scarlet F.	Case 41, S. P.
33	41 Leavenworth St.	Scarlet F.	Case 42, S. P.
34	41 Leavenworth St.	Scarlet F.	Case 43, S. P.
35	41 Leavenworth St.	Scarlet F.	Case 44, S. P.
36	41 Leavenworth St.	Scarlet F.	Case 45, S. P.
37	41 Leavenworth St.	Scarlet F.	Case 46, S. P.
38	41 Leavenworth St.	Scarlet F.	Case 47, S. P.
39	41 Leavenworth St.	Scarlet F.	Case 48, S. P.
40	41 Leavenworth St.	Scarlet F.	Case 49, S. P.

DATE.	ADDRESS.	DISEASE.	REMARKS.
Mar 20/98.	53 Stoven St.	Small-Pox.	Case 32. S. P.
21.	17 Queen St.	"	Case 31. S. P.
22.	6 Heath Ter.	Scarlet F.	2nd case see March 8th.
23.	18 Morris St.	Typhoid F.	No Sanitary defects.
24.	31 Market Pl.	Diphtheria.	do.
24.	23 Harrison St.	Scarlet F.	do. origin unknown.
25.	44 Tees St.	Small-Pox.	Case 33. S. P.
Apr. 1/98.	74 Smeaton St.	"	Removed to Hospital. Origin unknown.
4.	Ormesby.	Scarlet F.	Derived from Normanby, the washing having been sent there to be done by a woman having Scarlet Fever in the house.
7.	38 Morris St.	Scarlet F.	Source unknown. No Sanitary defects. 2nd case April 25th.
9.	49 Alfred St.	Typhoid F.	2nd case. See July 28th.
13.	44 Morris St.	Scarlet F.	No Sanitary defects.
22.	18 Stoven St.	Typhoid F.	Large underground rain water cistern in yard which required filling in.
23.	5 Louisa St.	Small-Pox.	Removed to Hospital. Works in Middlesbro' 3 weeks since last case was reported in Ormesby District.
25.	38 Morris St.	Scarlet F.	2nd case. See April 7th.
29.	36 Telford St.	Scarlet F.	No Sanitary defects.
29.	79 Hymer St.	"	Scullery sink waste pipe covered by a bell trap and connected directly with yard gully.
29.	5 Short St.	"	Scullery Sink waste pipe not trapped and discharging directly into yard gully.
May 14/98.	49 Morris St.	"	No Sanitary defects. Probable source of infection was School. See May 24 th and June 16th.
14.	44 High St.	"	No Sanitary defects and most likely due to attendance at School.
18.	4 Bargate St.	"	No Sanitary Defects. Origin unknown. See June 7th - 2nd case.

ADDRESS. DISEASE. COMMENTS.

ADDRESS.	DISEASE.	COMMENTS.
100 1st St. N. W.	Small-Pox	Case No. 12
101 1st St. N. W.	"	"
102 1st St. N. W.	Scarlet F.	Case No. 13
103 1st St. N. W.	Typhoid F.	No further details
104 1st St. N. W.	Typhoid F.	do.
105 1st St. N. W.	Scarlet F.	do. out in hospital
106 1st St. N. W.	Small-Pox	Case No. 14
107 1st St. N. W.	"	Removed to hospital. Details
108 1st St. N. W.	Scarlet F.	Removed from hospital. Details
109 1st St. N. W.	Typhoid F.	Removed from hospital. Details
110 1st St. N. W.	Typhoid F.	Removed from hospital. Details
111 1st St. N. W.	Scarlet F.	Removed from hospital. Details
112 1st St. N. W.	Typhoid F.	Removed from hospital. Details
113 1st St. N. W.	Small-Pox	Removed to hospital. Details
114 1st St. N. W.	Scarlet F.	Removed to hospital. Details
115 1st St. N. W.	Scarlet F.	Removed to hospital. Details
116 1st St. N. W.	Scarlet F.	Removed to hospital. Details
117 1st St. N. W.	Scarlet F.	Removed to hospital. Details
118 1st St. N. W.	Scarlet F.	Removed to hospital. Details
119 1st St. N. W.	Scarlet F.	Removed to hospital. Details
120 1st St. N. W.	Scarlet F.	Removed to hospital. Details

DATE.	ADDRESS.	DISEASE.	REMARKS.
May 21/98.	28 Kings Road.	Small-Pox.	No Sanitary defects. Removed to Middlesbro' Fever Hospital.
24.	49 Morris St.	Scarlet F.	2nd case. See June 16 and May 14.
June 6/98.	Orphanage.	"	Removed to Worsley House Cottage for isolation.
7.	4 Bargate St.	"	2nd case. See May 18th.
9.	23 Smeaton St.	Typhoid F.	No Sanitary defects. Origin could not be traced.
14.	9 Church St.	Scarlet F.	Deep Ashpit. Source of infection not known.
15.	26 Pierson St.	Small-Pox.	Removed to Middlesbrough Fever Hospital. Source of disease not known. No Sanitary defects. 2nd case June 24th, 3rd case June 27th.
16.	49 Morris St.	Scarlet F.	3rd case. See May 14th.
22.	42 James St.	Typhoid F.	Yard paved with common red bricks and out of repair. Origin of Typhoid Fever not known.
24.	26 Pierson St.	Small-Pox.	Removed to Middlesbro' Fever Hospital 2nd case. See June 15th and 27th.
25.	49 Pennyman St.	Scarlet F.	Deep and wet ashpit. Cess pit in yard containing 18 inches of mud.
27.	26 Pierson St.	Small-Pox.	3rd case. See June 15 and 24. Removed to Middlesbrough Fever Hospital.
July 1/98.	25 High St.	2 Scarlet F.	Source of disease not known. No Sanitary defects.
28.	9 Hymer St.	Erysipelas.	Death. Premises disinfected and bed destroyed.
Aug. 4/98.	86 Smeaton St.	"	Cess pit gully in yard with pipes open from main drain.
5.	41 Nelson St.	Croup.	Defective yard surface, yard wall, ashpit, and roof.
11.	Pennymans Lodge. Ormesby.	Erysipelas.	No Sanitary defects.
15.	54 Nelson St.	Typhoid F.	2nd case. Sept. 8th. 3rd case Oct 5th.
20.	Cottage Hospital.	"	No Sanitary defects. Admitted from 14 Tees Street.
29.	15 Morris St.	"	Deep Ashpit.

11.00	28 Kings Road.	Small-Fox.	No sanitary detector removed to Middlebrook Street Hospital.
12.	48 North St.	Scarf P.	2nd case. See 12 and 13.
13.	48 North St.	"	Removed to Trinity House. Detector for disinfection.
14.	48 North St.	"	2nd case. See 12 and 13.
15.	28 South St.	Typical P.	No sanitary detector. Detector could not be traced.
16.	48 North St.	Scarf P.	2nd case. See 12 and 13.
17.	28 North St.	Small-Fox.	Removed to Middlebrook Street Hospital. Detector of disease not known. No sanitary detector. 2nd case June 25th, 2nd case June 27th.
18.	48 North St.	Scarf P.	2nd case. See 12 and 13.
19.	48 North St.	Scarf P.	2nd case. See 12 and 13.
20.	28 North St.	Small-Fox.	Removed to Middlebrook Street Hospital. Detector of disease not known. No sanitary detector. 2nd case June 25th and 27th.
21.	48 North St.	Scarf P.	2nd case. See 12 and 13.
22.	48 North St.	Scarf P.	2nd case. See 12 and 13.
23.	28 North St.	Small-Fox.	Removed to Middlebrook Street Hospital. Detector of disease not known. No sanitary detector. 2nd case June 25th and 27th.
24.	48 North St.	Scarf P.	2nd case. See 12 and 13.
25.	28 North St.	Small-Fox.	Removed to Middlebrook Street Hospital. Detector of disease not known. No sanitary detector. 2nd case June 25th and 27th.
26.	28 North St.	Scarf P.	2nd case. See 12 and 13.
27.	48 North St.	Scarf P.	2nd case. See 12 and 13.
28.	48 North St.	Scarf P.	2nd case. See 12 and 13.
29.	48 North St.	Scarf P.	2nd case. See 12 and 13.
30.	48 North St.	Scarf P.	2nd case. See 12 and 13.
31.	48 North St.	Scarf P.	2nd case. See 12 and 13.
32.	48 North St.	Scarf P.	2nd case. See 12 and 13.
33.	48 North St.	Scarf P.	2nd case. See 12 and 13.
34.	48 North St.	Scarf P.	2nd case. See 12 and 13.
35.	48 North St.	Scarf P.	2nd case. See 12 and 13.
36.	48 North St.	Scarf P.	2nd case. See 12 and 13.
37.	48 North St.	Scarf P.	2nd case. See 12 and 13.
38.	48 North St.	Scarf P.	2nd case. See 12 and 13.
39.	48 North St.	Scarf P.	2nd case. See 12 and 13.
40.	48 North St.	Scarf P.	2nd case. See 12 and 13.
41.	48 North St.	Scarf P.	2nd case. See 12 and 13.
42.	48 North St.	Scarf P.	2nd case. See 12 and 13.
43.	48 North St.	Scarf P.	2nd case. See 12 and 13.
44.	48 North St.	Scarf P.	2nd case. See 12 and 13.
45.	48 North St.	Scarf P.	2nd case. See 12 and 13.
46.	48 North St.	Scarf P.	2nd case. See 12 and 13.
47.	48 North St.	Scarf P.	2nd case. See 12 and 13.
48.	48 North St.	Scarf P.	2nd case. See 12 and 13.
49.	48 North St.	Scarf P.	2nd case. See 12 and 13.
50.	48 North St.	Scarf P.	2nd case. See 12 and 13.
51.	48 North St.	Scarf P.	2nd case. See 12 and 13.
52.	48 North St.	Scarf P.	2nd case. See 12 and 13.
53.	48 North St.	Scarf P.	2nd case. See 12 and 13.
54.	48 North St.	Scarf P.	2nd case. See 12 and 13.
55.	48 North St.	Scarf P.	2nd case. See 12 and 13.
56.	48 North St.	Scarf P.	2nd case. See 12 and 13.
57.	48 North St.	Scarf P.	2nd case. See 12 and 13.
58.	48 North St.	Scarf P.	2nd case. See 12 and 13.
59.	48 North St.	Scarf P.	2nd case. See 12 and 13.
60.	48 North St.	Scarf P.	2nd case. See 12 and 13.
61.	48 North St.	Scarf P.	2nd case. See 12 and 13.
62.	48 North St.	Scarf P.	2nd case. See 12 and 13.
63.	48 North St.	Scarf P.	2nd case. See 12 and 13.
64.	48 North St.	Scarf P.	2nd case. See 12 and 13.
65.	48 North St.	Scarf P.	2nd case. See 12 and 13.
66.	48 North St.	Scarf P.	2nd case. See 12 and 13.
67.	48 North St.	Scarf P.	2nd case. See 12 and 13.
68.	48 North St.	Scarf P.	2nd case. See 12 and 13.
69.	48 North St.	Scarf P.	2nd case. See 12 and 13.
70.	48 North St.	Scarf P.	2nd case. See 12 and 13.
71.	48 North St.	Scarf P.	2nd case. See 12 and 13.
72.	48 North St.	Scarf P.	2nd case. See 12 and 13.
73.	48 North St.	Scarf P.	2nd case. See 12 and 13.
74.	48 North St.	Scarf P.	2nd case. See 12 and 13.
75.	48 North St.	Scarf P.	2nd case. See 12 and 13.
76.	48 North St.	Scarf P.	2nd case. See 12 and 13.
77.	48 North St.	Scarf P.	2nd case. See 12 and 13.
78.	48 North St.	Scarf P.	2nd case. See 12 and 13.
79.	48 North St.	Scarf P.	2nd case. See 12 and 13.
80.	48 North St.	Scarf P.	2nd case. See 12 and 13.

DATE.	ADDRESS.	DISEASE.	REMARKS.
Aug. 31/08.	35 Hampden St.	Typhoid F.	Yard gully of this and adjoining house stopped sometime ago, but now acting. 2nd case Oct. 2nd.
Sept 1/08.	63 Hampden St.	"	Fish Shop. Nuisance from Cess pit in yard. Ventilation of premises inadequate. Fatal termination of case.
3.	12 West Ter.	"	No Sanitary defects.
5.	40 Alfred St.	"	No Sanitary defects.
5.	22 Worsley St.	Erysipelas.	No Sanitary defects.
8.	54 Nelson St.	Typhoid F.	No Sanitary defects. 1st case Aug 15th, 3rd Oct 5th.
9.	22 Alfred St.	"	Deep and wet ashpit also cess pit gully.
10.	4 Cromwell St.	"	No Sanitary defects.
16.	Toll Bar Cottages. Cargo Fleet.	"	2 cases in same house the premises with 2 adjoining houses not fit for habitation on account of nuisances from defective privy accomodation &c. See special report after inspection.
16.	Carlyle House, Kings Road.	"	No Sanitary defects.
26.	40 Telford St.	"	No Sanitary defects.
Oct 1/08.	47 Nelson St.	"	No Sanitary defects.
2.	6 West Ter.	"	No Sanitary defects.
2.	35 Hampden St.	"	2nd case. See August 31st.
3.	69 Worsley St.	"	Ashpit wall defective.
4 1/2.	11 Hymer St.	"	Cess pit gully in yard.
4 1/2.	59 Pennyman St.	"	No Sanitary defects.
4 1/2.	37 Tees St.	"	No Sanitary defects.
4 1/2.	9 Hymer St.	"	Cess pit gully. Ashpit full. Notice served for cess pit gully.
5.	54 Nelson St.	"	3rd case. See Aug. 15th.
6.	2 James St.	Scarlet F.	No Sanitary defects. Origin not known.
7.	Black Swan Hotel.	Typhoid F.	do.
10.	3 Pennyman St.	Erysipelas.	Ashpit roof defective. Cess-pit gully.
10.	51 Hampden St.	Typhoid F.	No Sanitary defects.
11.	20 Tees St.	"	do.

No.	Address	Diagnosis	Remarks
1	32 Hampden St.	Typhoid F.	Yard empty of milk and other things. House stopped receiving milk, but not water. Case Col. 244.
2	68 Hampden St.		Yard empty. Milk delivered from Case pit in yard. Ventilation of privies. Case Col. 244.
3	12 Madison St.		No sanitary defects.
4	12 West Ter.		No sanitary defects.
5	40 Alfred St.		No sanitary defects.
6	22 Stanley St.	Typhoid F.	No sanitary defects.
7	84 Beulah St.	Typhoid F.	No sanitary defects. Yard empty. Case Col. 244.
8	82 Alfred St.		Yard empty. No sanitary defects.
9	4 Grosvenor St.		No sanitary defects.
10	Porter Street.		No sanitary defects.
11	Carlyle House, Kings Road.		No sanitary defects.
12	40 Telford St.		No sanitary defects.
13	24 Nelson St.		No sanitary defects.
14	6 West Ter.		No sanitary defects.
15	38 Hampden St.		Yard empty. No sanitary defects.
16	60 Worcester St.		Yard empty. No sanitary defects.
17	11 Hunter St.		Yard empty. No sanitary defects.
18	60 Penryn St.		Yard empty. No sanitary defects.
19	27 Tees St.		Yard empty. No sanitary defects.
20	9 Hunter St.		Yard empty. No sanitary defects.
21	64 Nelson St.		Yard empty. No sanitary defects.
22	2 James St.		Yard empty. No sanitary defects.
23	Black Swan Hotel.		Yard empty. No sanitary defects.
24	2 Penryn St.		Yard empty. No sanitary defects.
25	41 Hampden St.		Yard empty. No sanitary defects.
26	20 Tees St.		Yard empty. No sanitary defects.

DATE.	ADDRESS.	DISEASE.	REMARKS.
Oct 12/08.	13 Market Pl.	Typhoid F.	Cellar under front room had 2 or 3 inches water over floor.
15.	12 Smeaton St.	"	No Sanitary defects.
20.	70 Smeaton St.	"	do. 2nd case. Dec 30.
20.	74 Smeaton St.	"	Defective bedroom and pantry roofs.
21.	55 Alfred St.	Erysipelas.	Was in Cottage Hospital with a scalp wound.
27.	Cottage Hospital.	Typhoid F.	Removed from White Cottage, Smeaton St, where there was a defective cess pit gully in yard. The property has been put into good sanitary order since removal of patient.
28.	17 Harrison St.	"	No Sanitary defects.
Nov 6/08.	6 Market Pl.	Scarlet F.	No trap to sink in Cellar kitchen.
10.	65 Worsley St.	Typhoid F.	Bottom of inner wall of midden out of repair. Scullery sink waste pipe not trapped and discharges directly into yard gully.
11.	34 Stoven St.	Scarlet F.	No Sanitary defects. Two children attending school. The child of 5 years was found to be desquamating and allowed to run about the streets. This case had not been attended by a Medical man, nor been notified.
16.	34 Stoven St.	"	
Dec 8/08.	46 Coltman St.	"	No Sanitary defects. Source not known.
15.	71 Stoven St.	Erysipelas.	Cess pit gully. Open pipe drain. Defective ashpit roof.
16.	44 Hampden St.	Scarlet F.	No Sanitary defects.
22.	Cottage Hospital.	Erysipelas.	Following injury to head.
23.	do.	"	do.
20.	70 Smeaton St.	Typhoid F.	2nd case. See Oct 20/08.

ADDRESS	REPORT	REMARKS
12. 12 Street St.	Typhoid F.	Called when front door was 2 or 3 inches water over floor.
13. 12 Street St.	"	No sanitary details.
14. 10 Street St.	"	do. and case. See 13.
15. 14 Street St.	"	Detective bedroom and sanitary toilet.
16. 20 Alford St.	Erysipelas.	Was in Cottage Hospital with a scalp wound.
17. Cottage Hospital.	Typhoid F.	Relieved from White Cottage, 20 Street St., where there was a defective cess pit fully in yard. The property has been put into good sanitary order since removal of patient.
18. 12 Street St.	"	Sanitary details.
19. 10 Street St.	Typhoid F.	Bottom of gutter with 2 1/2 inches out of level. Sanitary sink water pipe not trapped and had to be directly into yard drain.
20. 14 Street St.	Scarlet F.	No sanitary details. Two children attending school. The child of 5 years was found to be demonstrating and allowed to run about the streets. This case had not been attended by a Medical man, nor been notified.
21. 14 Street St.	"	No sanitary details. House not known.
22. 11 Street St.	Erysipelas.	Cess pit fully open into drain. Defective sanitary toilet.
23. 14 Hampden St.	Scarlet F.	No sanitary details.
24. Cottage Hospital.	Erysipelas.	Following injury to head.
25. do.	do.	do.
26. 10 Street St.	Typhoid F.	and case. See 12.

INFANT MORTALITY. There is no doubt that milk and milk foods are responsible for much of the disease amongst infants, more especially diarrhoea, ~~marasmus~~ and tubercular disease, particularly tabes mesenterica. As recently pointed out by Sir Richard Thorne the rate of mortality from this disease which is mainly due to infection received through the digestive system, and is the ~~main~~ principal representative of tubercular disease in infancy, has not diminished as has the rate from tubercular diseases - notably Phthisis - at all ages in England and Wales notwithstanding Sanitary progress, but there has actually been a heavy increase of deaths under 1 year of age from this cause which increase has gone hand in hand with an increase in the consumption of cows milk as a food in this country. Tuberculosis in milch cows is unfortunately of common occurrence and its prevalence is greatly due to the cows being kept in byres which are ill ventilated, ill lighted and ill cleansed; and as the largest part of Tuberculosis which man obtains through food is by means of milk containing tubercular matter it is advisable that as far as possible the danger from this source should be overcome, 1st by the slaughtering of all milch cows suffering from advanced tuberculosis.

2nd by the boiling of milk before it is consumed, for it has been proved over and over again that milk contaminated with tubercular matter can be rendered harmless by being boiled for one minute.

3rd seeing that the conditions under which milch cows are kept are satisfactory, the byres being well lighted, well ventilated, well drained, having sufficient cubic and floor space for each beast and that they are kept clean. Several of the cow-byres in this district do not approach this standard, being badly lighted - little or no sunshine ever coming into them - they are ill kept and not well ventilated and cows confined under such conditions are likely to suffer from tuberculosis, and the consumption of their milk as food is likely to be followed by tubercular disease.

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REPORTS have been prepared by me on the epidemics of Small Pox and Typhoid Fever. Also reports on the following:-

TOLL BAR COTTAGES, Cargo Fleet. Following the appearance of Typhoid Fever in one of these 3 cottages, an inspection was made of the property and certified unfit for habitation. The soil at the back of the houses was found saturated with filth, the drainage bad, the bedroom accommodation inadequate and the lighting and ventilating of the same most unsatisfactory, the yards unpaved and covered with filth partly due to the keeping of poultry. Boundary yard walls were required, the middens were open and dilapidated, the smell arising from them most offensive and the contents of one ran over the ground surface, much of the yard area of each cottage was taken up by wood huts erected for poultry and resulting in a nuisance.

MARTON RESERVOIR. The water having become impure an inspection was made and pollution found to occur at two points before the water arrived at the reservoir which is situated near to Nunthorpe Railway Station, 1st by sewage derived from a culvert running under the railway, and polluting the water at a point near the depot.

2nd by sewage from Hambleton Farm.

Report on Nuisance at Mr Wilkinson's Farm, Ormesby. The cow-byre drained into a ditch at the back of the cow-byre and blacksmith's shop. This ditch was found to be full of putrid filth and discharging 22 yards away into Ormesby Beck. The yard surface in front of the blacksmith's shop and cow-byre was not paved being formed of clay only and 3 yards from the blacksmith's shop was a collection of manure from the piggery and cow-byre and near to that were pools of filth causing a nuisance of the most offensive character and dangerous to those living or working near.

REPORTS have been prepared by me on the epidemic of Small

Pox and Typhoid Fever. Also reports on the following

TOLL BAR OUTRAGE, Cargo Steamer. Following the appearance

of Typhoid Fever in one of these 3 boats, an inspection was

made of the property and certified under the following

note as the back of the house was found infected with filth

the drainage pan, the bed-room accommodation, the kitchen and the

lighting and ventilation of the same most unsatisfactory, the

yard unpaved and covered with filth partly due to the keeping

of poultry. Boundary yard walls were repaired, the kitchen

were open and disinfected, the small kitchen floor laid new

olefinite and the contents of one pan over the ground surface

most of the yard area of each cottage was taken up by wood

and replaced by concrete paving with drainage.

REPORT ON THE WATER-HAVING BEHIND LINDSAY AND

inspection was made and pollution found to occur at two points

before the water entered the reservoir which is situated

near to Northcote Railway Station, but by means derived from

a culvert running under the railway, and polluting the water

at a point near the depot.

and by sewage from Northcote Farm.

REPORT ON THE WATER AT MR. WILKINSON'S FARM, DUNDEE. THE

cow-pyre destined into a ditch at the back of the cow-pyre and

Blacksmith's shop. This ditch was found to be full of filthy

filth and discharging 20 yards away into the main road. The

road surface in front of Blacksmith's shop and cow-pyre was

not paved being formed of clay only and 2 yards from the

Blacksmith's shop was a collection of manure from the railway

and cow-pyre and next to that were pools of filth causing a

nuisance of the most offensive character and dangerous to

those living or working near.

NUISANCE AT MR HANSELL'S FARMSTEAD. The fold yard was not paved and in winter and wet weather was ankle deep with mud, stored in the upper end was a heap of about 60 loads of manure about 25 yards from dwelling house.

The Main drain from Hansell's house, farmstead, cottages and adjoining properties discharged into Ormesby Beck 9 feet from the Village School fence and endangered the health of the children attending the school. The cow-byres are small having both insufficient air space and are badly lighted and ventilated, the outbuildings and main buildings wanted spouts and down comers.

INSPECTION OF PREMISES OF ICE CREAM MAKER at 2 Lower Pennyman Street, North Ormesby. In the yard was a manhole covered by a stone and wood cover, containing 12 inches of sewage and 4 inches of deposit, and receiving the drains of 127, 129 & 131 Smeaton Street, and 2 Lower Pennyman Street.

The drains of the 3 first mentioned houses were blocked and sewage from them was percolating through the area wall into the area itself of 2 Lower Pennyman Street, and close to the door of the back cellar kitchen. The smell was unbearable and ICE CREAM WAS BEING MADE IN THIS CELLAR KITCHEN.

...the ...
...in winter and ...
...the upper ...
...about the ...

The ...
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INSPECTION OF PREMISES OF ICE CREAM MANUFACTURE AT 2 LOWER
...
...covered by a stone and wood cover, containing 12 inches of
...and 4 inches of deposit, and receiving the ...
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...believe and ICE CREAM MANUFACTURE IS THIS ...

MILK SELLERS.

The Milk trade in North Ormesby is carried on under the same conditions as in previous years. Only a limited quantity of milk is delivered from the farms to the milk sellers who for the most part keep a small shop and sell the milk from vessels kept on the shop counter. In very few instances were any provisions made for storing milk and in none was the milk protected from dust &c. falling into it, by the placing of a cover over the vessel in which it was kept whilst exposed for sale. At one house I believe the trade was carried on with possible danger to the customers, viz. at 19 Coltman Street. The milk was kept in the front room of a cottage house, and in the event of any infectious disease occurring amongst those living here, there is a certainty of its being carried by the milk to others. A mild case of Scarlet Fever might be overlooked, or Typhoid Fever exist in this house for some considerable time before being notified, and serious consequences would follow. The party carrying on this business was not disposed to accept any suggestions made for keeping the milk and milk tins apart from those living in the house.

In my report for 1897 I had to mention unfavourably two milk sellers one in Langbaurgh Place, for keeping pigs and poultry in the cow-byre, the other a pawn-broker in Smeaton Street. The keeping of cows has been given up by the milk seller in Langbaurgh Place, and the milk dealer in Smeaton Street is now no longer a pawn-broker.

SLAUGHTER HOUSES.

These were found to be clean and in a satisfactory condition. The Slaughter House in Gas Works Road, objected to in my last report is now closed. But one in back Hymer Street I found had been altered and was now used as a Stable, Coach House, and Slaughter House. At the time of my inspection I found a large quantity of meat which had been hanging for some days, exposed

MILK

The milk found in this factory is carried in under the
same conditions as in previous years. Only a limited quantity
of milk is delivered from the farms to the milk canners and the
milk cans keep a small stock and sell the milk to the
shops on the shop counter. In very few instances were
provisions made for storing milk and in some cases the milk
was kept in cans, which were at the time of the outbreak of the
disease in which it was kept which exposed the milk
At one house I believe the milk was carried in the
cans to the customer, viz. at 12 William Street. On the
other hand in the great town of a distance houses, and in the
of any infectious disease occurring amongst those houses
there is a certainty of its being carried by the milk
A mild case of scarlet fever might be contracted, as I have
never seen in this house for some considerable time before
being notified, and serious consequences might result
Every carrying on this business was not disposed to accept
suggestions made for keeping the milk and milk cans apart from
those living in the house.

IN MY REPORT FOR 1887 I HAD TO MENTION UNDESIRABLY FOR MILK

exists one in Leadenhall Place, for keeping pigs and poultry
in the cow-stye, the other a path-proctor in Leadenhall Street.
The keeping of cows has been given up by the milk canner in
Leadenhall Place, and the milk dealer in Leadenhall Street is
no longer a path-proctor.

SLAUGHTER HOUSES.

These were found to be clean and in a satisfactory condition.
The Slaughter House in the Town Hall, objected to be
report is now closed. But one in back Street Street I found
had been altered and was now used as a stable, coach house, and
Slaughter House. At the time of my inspection I found a large
quantity of meat which had been hanging for some days, exposed

to the noxious emanations from stable manure &c. It is hardly necessary to point out that the building should be a stable or Slaughter House, NOT BOTH.

LONGFORD FARM. The well is all open to the sky. The water supply is not satisfactory. It has the strong taste referred to above, but the present complaints are being met after allowing it to stand for several days or at least in the suspended matter. The plan is not to repair but to fill with great difficulty water can be raised from the well. The latter requires a proper cover. The water for the house is obtained from a spring and carried by pipes to a tank near the farm buildings. A well exists also at the house, but the water is not used. The garden is very good, but the garden soil is not near the north of the wall and it is not given any and an accident happened.

THE OTHER FARM. Was found to be in a satisfactory state.

SPRINGHILL FARM. There are 2 stables, one is illuminated by light, badly paved and ventilated. The other is made up of the surface of an adjoining horse box. This should be remedied by putting in a proper drain and floor. There are two cow-stalls, one not well paved, the other requires the roof painting, and there is no arrangement for ventilation of both. The cow sheds will give some protection from the fall which will water the farm. The great of Typhoid fever occurred there in great part of the extension of the disease. Some weeks ago we had an outbreak of this following a case of Typhoid fever which occurred at this place, resulting in pollution of the well water and afterwards a very serious outbreak of Typhoid fever among the living on the farm and death of the farmer himself. The right thing to do is to get in a job done and obtain the price as previously recommended. The well in the garden should be enclosed in a proper way and the water should be

It is necessary to point out that the building should be a space for
Statement No. 1, 1950.

The building is a two-story structure with a total area of approximately 10,000 square feet. It is located on the corner of Main Street and 1st Avenue. The building is currently vacant and is being offered for sale. The seller is looking for a buyer who is interested in the building as a long-term investment or for use as a business premises. The building is in good condition and has a lot of potential. It is situated in a prime location and is surrounded by other commercial buildings. The building has a lot of character and is a well-known landmark in the area. It is a great opportunity for anyone looking for a unique property in a great location.

The building is a two-story structure with a total area of approximately 10,000 square feet. It is located on the corner of Main Street and 1st Avenue. The building is currently vacant and is being offered for sale. The seller is looking for a buyer who is interested in the building as a long-term investment or for use as a business premises. The building is in good condition and has a lot of potential. It is situated in a prime location and is surrounded by other commercial buildings. The building has a lot of character and is a well-known landmark in the area. It is a great opportunity for anyone looking for a unique property in a great location.

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The farms in the Ormesby District supplying milk to North Ormesby and Middlesbrough have all been visited recently.

Longbank Farm. The milk is all used on the farm. The water supply is not satisfactory. In fact the former tenant refused to drink it, but the present occupiers are doing so after allowing it to stand for several hours so as to deposit the suspended matter. The pump is out of repair and is only with great difficulty water can be raised from the well. Also the latter requires a proper cover. The water for the cattle is obtained from a spring and carried by pipes to a trough near the farm buildings. A soft water well in the garden has for years been unsafe. The garden fence is rotten, part has fallen down and that near the mouth of the well may at any time give way and an accident happen.

The Grange Farm. Was found to be in a satisfactory state.

Spencer Beck Farm. There are 2 stables, one is insufficiently lighted, badly paved and ventilated. The other still drains on to the surface of an adjoining loose box. This should be remedied by putting in a proper drain and gully. There are two cow-byres, one not well paved, the other requires the roof pointing, and there is an inadequate lighting and ventilation of both. The open midden still exists about 16 yards from the well supplying water for the farm, and in the event of Typhoid Fever occurring there is great risk of an extension of the disease. Some years ago we had an example of this following a case of Typhoid Fever which occurred at White House Farm, resulting in pollution of the well water and afterwards a very serious outbreak of Fever amongst those living on the farm and death of the farmer himself. The right thing to do is to put in a pan closet and abolish the privy as previously recommended. The well in the scullery which was condemned in my report for last year has been filled in.

The farms in the Ormsby district supply the milk to Ormsby and Middleborough have all been visited recently. The milk is all kept on the farm. In fact the Ormsby farms are not satisfactory. In fact the Ormsby farms are doing as well as can be expected for several hours as an outbreak of typhoid fever. The pump is out of repair and the water is not raised from the well. The water for the cattle is obtained from a spring and carried by pipes to a trough near the farm buildings. A well water well in the garden has been used. The garden tank is broken, but has fallen down and the near the mouth of the well may at any time give way and an accident happen.

THE HOUSE FARM. Was found to be in a satisfactory state. There are a number of other farms in the district which are lighted, badly paved and ventilated. The other farms are in the nature of an adjoining house. This should be remedied by putting in a proper drain and gully. There are two cow-pens, one well paved, the other requires the roof pointing, and there is an inadequate lighting and ventilation of both. The open midden still exists about 15 yards from the well supplying water for the farm, and is the cause of typhoid fever occurring there is great risk of an extension of the disease. Some years ago we had an outbreak of this following a case of typhoid fever which occurred at White House Farm, resulting in pollution of the well water and afterwards a very serious outbreak of fever amongst those living on the farm and death of the farmer himself. The right thing to do is to put a pump close and collect the water as previously recommended. The well in the masonry which was mentioned in my report for last year has been filled in.

BOTTOMS FARM. Is in good condition with the exception of the rain water spouts being defective on the main buildings.

MR LISTER'S PREMISES. Cow Keeper, Ormesby. The cow-byre should be properly lighted and ventilated and the roof made weather proof. The water supply is from Miss Brown's Reservoir in Crow Wood, near Ormesby Bank, which also supplies Cargo Fleet etc. the well water from the pump in the stable previously condemned is now only used for cleansing purposes. Much has been done since my last report to improve the condition of these premises by draining, paving and laying on water from Miss Brown's reservoir, but more is required. Spouts are wanted to the house, the yard surface should be paved or macadamised and a heap of manure lifted from the house and abutting on the road and draining on to the footpath should be removed to a more suitable place. At present it is a nuisance.

MR WILKINSON'S PREMISES. Cow Keep, Ormesby. The old cow-byre has been repaved, properly ventilated, lighted and drained and is now in good order. A new byre has been erected for 2 cows which is equally satisfactory. The ditch draining the old byre and running at the back of the byres and Blacksmith's shop has been filled in and a drain put in to discharge into the beck, and in its course receives the whole of the sewage from Hansell's Farmstead, and adjoining cottages and 2 Villas in Redcar Road. The yard in front of the Blacksmith's shop requires suitable channels and gullies and should be macadamised.

MR HANSELL'S PREMISES. Cow Keeper, Ormesby. Some improvement has been made on this farmstead. Spouts and downcomers have been fixed, the stable well lighted and ventilated and the cow-byres and fold yard were unusually clean, but the latter should be properly paved. The calf house is used for 4 cows and being low does not contain sufficient air space and it is insufficiently lighted and ventilated. The farmstead has had more than the usual amount of attention given to it by the tenant and so is in a cleaner, and less untidy condition than

... the rain water being being defective on the main ...
 MR. HANSELL'S PREMISES. Cow keeper, O'Connell. The ...
 should be properly lighted and ventilated and the roof ...
 weather proof. The water supply is from the town's ...
 in Cow Yard, near O'Connell's Bank, which also ...
 that the wall water from the trap in the stable ...
 is contained in a new only vent for ...
 has been done since by last report to improve the ...
 of these premises by draining, paving and laying on water ...
 this house's reservoir, but more is required. Should ...
 raised to the house, the yard surface should be paved ...
 and a bed of manure laid over the same ...
 surface on the road and draining to the ...
 reserved to a more suitable place. At present it is a ...

MR. HANSELL'S PREMISES. Cow keep, O'Connell. The old ...
 cow-pen has been repaired, properly ventilated, lighted and ...
 drained and is now in good order. A new pen has been ...
 for a cow which is equally satisfactory. The other ...
 the old pen and running at the back of the pen and ...
 which has been filled in and a drain put in to ...
 drain into the back, and in the course receive the ...
 the sewage from Hannell's premises, and additional ...
 out a drain in back road. The yard in front of the ...
 and a drain regulation outside channels and ...

MR. HANSELL'S PREMISES. Cow keeper, O'Connell. Some ...
 has been made on this premises. Should and ...
 have been laid, the stable well lighted and ventilated and ...
 cow-pen and laid yard were unusually clean, but the ...
 should be properly level. The old house is used for a ...
 and during low does not contain sufficient air space and it ...
 the premises, lighted and ventilated. The ...
 the sewage from the premises ...
 and the usual amount of attention given to it ...
 and is in a clean, and has ...

usual, but structural alterations and improvements are yet needed. A double pan closet was being substituted for an offensive privy at the time of my visit so that necessary work was still being done about the farm by the owner.

MR JACKSON'S PREMISES. Cow Keeper, Ormesby. The cow-byres and the arrangements made for carrying on the milk trade are satisfactory, but a piggery was found draining into an open midden, the latter being about half full of water and offensive filth causing a nuisance requiring early attention.

MR WOOD'S PREMISES. Milk Seller, Ormesby. The cow-byre is not well lighted but excepting that is all that one could wish for. Milk is stored as before in a pantry in the house so situated as to be unsuitable for such a purpose. It is also improperly ventilated. Certainly it is advisable some other place should be provided for keeping the milk at this house.

HAMBLETON FARM. Twenty cows are kept on this farm and all the milk is sent to Middlesbrough. No milk is stored and there is no dairy. The whole of the sewage from this farmstead is poured into the watercourse supplying the Marton reservoir. A special report on this was previously made to the District Council.

There are 2 cow-byres, one containing 10 cows, which is low and required additional ventilation on that account. The other is satisfactory.

COLD KNUCKLES FARM. The cow-byres are badly lighted and ventilated. Grates and channels are required about the farm buildings. Many of the buildings for the stock are dilapidated. The fold yards are in about the same condition as found on previous visits, viz:- filthy. The new well in the field near the footpath leading to Normanby has been filled in as it was dangerous from there being no protecting fence.

BERWICK FIELD FARM. This farmstead is one of the best in the Ormesby District being well looked after by the tenant and kept in good order. The buildings and drainage are excellent

and provision has recently been made for storing the milk tins in the open air but under cover, after scalding and cleansing.

KELD HOUSE FARM. This farmstead is in good order. The only suggestion I have to make is that the midden and privy near the house should be altered. At very little cost and trouble it might be converted into an ashpit and pan closet and would then no longer be objectionable.

WHITE HOUSE FARM. There are 4 cow-byres. The outside wall of one and the engine house wall, both previously unsafe have been repaired but the byre should be better lighted and it needed limewashing. A shed in the fold yard has been converted into a cow-byre for 10 cows and is not suitable for such a purpose. In fact it is so dilapidated that repairs and alterations made to it would be more costly than rebuilding. It is too small for the number of cows kept and is insufficiently lighted and ventilated and is altogether in a dilapidated state. There is a third byre for 2 cows also not adapted for its present use being dark and not ventilated satisfactorily. The 4th byre is well built and in good order.

BRAMBLES FARM. Water is now obtained from Miss Brown's reservoir. That from the well not being used, and the pump has been removed. The cow-byre is an excellent one, 18 cows are kept and the milk is sent to Middlesbrough, North Ormesby and Cargo Fleet.

THORN TREE HOUSE FARM. There are 3 Stables. One good, one fairly satisfactory, the other badly lighted and ventilated. The fold yard drain was blocked. The Scullery sink waste pipe was still connected with the main drain and should be disconnected. One cow-byre is clean and satisfactory and another is very dilapidated and simply two old temporary loose boxes converted into a byre.

TOWNS FARM. The water supply is now obtained from Miss Brown's reservoir, the condemned well water not being used. The cow-byre is untidy and wants lime-washing. Ducks are

The first thing I noticed when I stepped out of the house was the cold air. It felt like a blanket, but a heavy one. I shivered as I walked towards the barn. The ground was wet from the rain, and the air smelled of earth and manure. I had never been to a farm before, and it felt like I had entered a whole new world. The barn was a large, dark structure with a high ceiling. Inside, there were several stalls, each with a horse. The horses looked healthy and well-cared for. I was in luck. This was exactly what I needed. The weather was perfect for a walk, and the horses were just what I needed to get my mind off things. I had never been to a farm before, and it felt like I had entered a whole new world. The barn was a large, dark structure with a high ceiling. Inside, there were several stalls, each with a horse. The horses looked healthy and well-cared for. I was in luck. This was exactly what I needed. The weather was perfect for a walk, and the horses were just what I needed to get my mind off things.

The second thing I noticed was the sound of the horses. They were talking to each other, and it sounded like a language I didn't understand. I had never been to a farm before, and it felt like I had entered a whole new world. The barn was a large, dark structure with a high ceiling. Inside, there were several stalls, each with a horse. The horses looked healthy and well-cared for. I was in luck. This was exactly what I needed. The weather was perfect for a walk, and the horses were just what I needed to get my mind off things.

The third thing I noticed was the smell of the horses. It was a mix of earth and manure, but it also had a sweet, milky scent. I had never been to a farm before, and it felt like I had entered a whole new world. The barn was a large, dark structure with a high ceiling. Inside, there were several stalls, each with a horse. The horses looked healthy and well-cared for. I was in luck. This was exactly what I needed. The weather was perfect for a walk, and the horses were just what I needed to get my mind off things.

The fourth thing I noticed was the sight of the horses. They were all different colors, and they all looked like they had been well-cared for. I had never been to a farm before, and it felt like I had entered a whole new world. The barn was a large, dark structure with a high ceiling. Inside, there were several stalls, each with a horse. The horses looked healthy and well-cared for. I was in luck. This was exactly what I needed. The weather was perfect for a walk, and the horses were just what I needed to get my mind off things.

The fifth thing I noticed was the sound of the horses. They were talking to each other, and it sounded like a language I didn't understand. I had never been to a farm before, and it felt like I had entered a whole new world. The barn was a large, dark structure with a high ceiling. Inside, there were several stalls, each with a horse. The horses looked healthy and well-cared for. I was in luck. This was exactly what I needed. The weather was perfect for a walk, and the horses were just what I needed to get my mind off things.

The sixth thing I noticed was the smell of the horses. It was a mix of earth and manure, but it also had a sweet, milky scent. I had never been to a farm before, and it felt like I had entered a whole new world. The barn was a large, dark structure with a high ceiling. Inside, there were several stalls, each with a horse. The horses looked healthy and well-cared for. I was in luck. This was exactly what I needed. The weather was perfect for a walk, and the horses were just what I needed to get my mind off things.

kept in it, which is an objectionable practice. The general appearance of the farmstead is untidy, ditty and unsatisfactory for which the tenant is chiefly to blame. A loose box is being used as a piggery and drains on the ground surface causing a pool of putrid filth to collect and resulting in a nuisance which cannot too soon be abated. There is a pan closet with double seat but only one pan. The far seat and end of pan receiver being used as a common privy the excrement and liquid from same running over ground surface. The piggery proper drains into a large hole dug in the ground and at the time of my visit was almost full of black offensive fluid. This was used as a duck pond and was only a short distance from the dwelling house.

SUN DIAL COTTAGES, Ormesby. There are 14 middens at the back of these cottages which should be put into sanitary condition. One of them is 10 ft from the village School window, all are open and deep, the boundary walls being from 2 ft to 4 ft high and many of them contained a large quantity of water and were most offensive. In addition there is a covered privy and ashpit at the back of the Sadler's shop which is certainly a nuisance dangerous to health and only 18 ft to 20 ft from the windows of 3 cottages. The privy should be converted into a pan closet.

THE STREETS in North Ormesby are in fairly good condition excepting Lower Pennyman Street and Louisa Street both of which should be properly made.

The piece of land at the back of Short Street remains in the same state as when my report was written for last year. At little cost it might be improved and afterwards I have no doubt would be used as a play ground by the children. A few feet of Scoriae brick pavement put down at the back of the middens of the Short Street cottages would be a great improvement, and prevent the nuisance caused by throwing the night soil from the privies on to the surface of the ground when they are emptied.

The general appearance of the structure is water, sturdy and substantial. The water tank is chiefly of stone. A loose box is being used as a pigsty and drains on the ground surface. A pool of water fills to collect and remains in a tank which cannot be used. There is a tank almost with double door but only one door. The tank and end of the receiver being used as a common water the structure and liquid from some running over ground surface. The pigsty proper drains into a large hole in the ground and at the time of my visit was almost full of black offensive liquid. This was used as a tank pond and was only a short distance from the building house.

RUN DIAL GOTTAGER, GIMSEBY. There are 14 children at the

back of these cottages which should be put into sanitary condition. One of them is 10 ft from the village school window, all are open and deep, the doorway walls being from 2 ft to 4 ft high and many of them contained a large quantity of water and were most offensive. In addition there is a covered entry and a part of the back of the cottage shop which is certainly a nuisance dangerous to health and only 15 ft to 20 ft from the windows of 3 cottages. The entry should be converted into a fan closet.

THE STREETS IN NORTH GIMSEBY ARE IN TERRIBLE CONDITION

existing lower Pannier Street and Lower Street both of which should be properly made. The piece of land at the back of Short Street between in the same state as when my report was written for last year. As little cost it might be improved and afterwards I have no doubt would be used as a play ground by the children. A few feet of concrete block pavement put down at the back of the children at the Short Street cottages would be a great improvement, and prevent the nuisance caused by throwing the night soil from the gutters on to the surface of the ground when they are emptied.

THE BACK STREETS are paved excepting back Short and Queen Street.

FOOTPATHS. Smeaton Street footpath could be improved and pieces of footpath dotted about North Ormesby should be completed as for example Bargate, Moses, and James Streets, Kings Road and Market Place.

The sewerage system in the town of the year 1870 should be raised to the level of the present one so as to have more efficient flushing.

It is also suggested that by temporarily diverting the water into the streets in the winter if these channels are well placed to which a rope or chain is attached, they could be filled with water and used as flushing tanks and by withdrawing the chain from the tanks the water would be allowed into the streets. It is suggested that the water should be raised to a level of 10 feet above the level of the streets and the water should be raised to a level of 10 feet above the level of the streets and the water should be raised to a level of 10 feet above the level of the streets.

Three new drains, main and flueing, etc. have been fixed in Smeaton Street, at the top of Short Street and top of Queen Street to take surface water and a channel has been fixed over the sewer at the end of High Street. The gutter in Smeaton Street has been blocked up to prevent water being run into the street with pipes of various sizes, viz. 12", 8", and 6". Several instances of imperfectly constructed gutters have occurred during the year and others are likely to occur.

The drainage system in the town of the year 1870 should be raised to the level of the present one so as to have more efficient flushing.

About 200 extra loads of manure have been required during the year and a large number of manure pits have been established in the town and out suburbs, a number of pits have now been removed and a number of manure pits have been established in the town.

1718 private drains have been cleared out since the year 1870 and a number of manure pits have been established in the town.

1892.

FOOTPATHS. Section Street footpaths could be improved and

placed at footpath level about North Street should be done.

As for the other streets, however, and those streets, they

have not been placed.

It is suggested that the footpaths should be placed at

the same level as the footpaths on the other side of the

streets, and that the footpaths should be placed at the

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THE SURVEYOR AND NUISANCE INSPECTOR REPORTS as follows:-

The Town sewage tanks have been cleaned out 3 times during the past year and several new flushing shafts have been fixed; the gullies have been regularly cleaned out and special attention given to cleansing the cess pit manholes and flushing the sewers. The Surveyor recommends the bottoms of the cess pit manholes should be raised to the level of the sewers so as to allow of more efficient flushing.

He also suggests that by temporarily closing the inlets and outlets of the sewers in these manholes by wood plugs to which a rope or chain is attached, they could be filled with water and used as flushing tanks and by withdrawing the plugs about 5 van loads of water would be poured into the sewers at once, and, as many of the manholes could be filled by a hose pipe the cost of flushing the sewers would be reduced.

Three new gullies, main and flushing shafts have been fixed in Pennyman Street, at the top of Short Street and end of Queen Street to take surface water and a manhole has been fixed over the sewer at the rear of High Hymer Street. The gullies in Morris Street have been blocked due to connections having been made with pipes of various sizes, viz.- 12", 9", and 8". Other instances of imperfectly constructed gullies have occurred during the year and others are known to exist.

The Telford Street gully drain leading to main sewer was blocked for 40 yards in May and following this a manhole has been put in. This sewer stands 3 parts full and has from 8" to 10" of backfall from the manhole near the office of the Council to the centre of the Cricket Field at which point it is always full.

Almost 300 extra loads of ashpit manure have been removed during the year and as a large number of soil pans have been substituted for deep and wet ashpits, 2 loads of pan manure are now removed every morning instead of one load once a week as formerly.

1775 private sinks have been cleaned out since the 8th of September and a house to house inspection of nine-tenths of the

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Whole district made by the Surveyor. Notices for the following have been served during the year:-

For

Yard Surfaces	168.
Gullies and Drains	160.
Cess pit gullies	104.
Ashpits	214.
Walls	69.
Spouting	34.
Footpaths	2.
Sheds	6.
Doors off	69.
Wells and tanks	15.
Chimneys	3.
Roofs	38.
Urinals	1.
Slopsinks	20.
Soil Pans	19.
General Notices	10.

For Farms

Listers	1.
Spencer Beck.	1.
Towns End	1.
Thorntree House	1.
Brambles	<u>1.</u>
Total.	<u>937.</u>

The forms required by the Local Government Board are forwarded with this report.

I am, gentlemen,

Yours obediently,

WM. KNOTT.

Medical Officer of Health.

To the

Ormesby Urban District Council.,

January 10th 1899.

have been served during the year-

For

188.	Land Services
180.	Colleges and Training
104.	State and Local
204.	Sanitary
68.	Public
38.	Spending
3.	Footpaths
4.	Trails
80.	Boats etc
50.	With other items

80.	Carriage
80.	Boats
1.	Utilities
30.	Electricity
18.	Sold items
10.	General Notices

For

1.	Stores
1.	Spencer Beck.
1.	Form etc
1.	Spencer House
1.	Stores
21.	<u>Total</u>

The forms prepared by the Local Government Board are forwarded with this report.

I am, Sir,
Yours obediently,

E. KNIGHT

Medical Officer of Health

To the

Sanitary District Council

January 10th 1902.