

[Report 1900] / Medical Officer of Health, Newmarket U.D.C.

Contributors

Newmarket (England). Urban District Council.

Publication/Creation

1900

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URBAN DISTRICT OF NEWMARKET SUFFOLK,

1900

Fifth Annual Report of the Medical Officer of Health on the Sanitary Condition of the Urban District of Newmarket, Suffolk, during the Twelve Months ending 31st December, 1900.

Population of the New Urban District according to the Census of 1891 was 8,631.

Estimated to middle of 1900 ... 10,500.

Area ... 5,640 Acres

Rateable Value ... £72,196

I. BIRTHS.—In the Urban District of Newmarket, Suffolk, there were 275 births registered during the year—148 were males and 127 females—which gives a birth-rate of 26·19 per thousand, practically the same as last year.

II. DEATHS.—The number of deaths registered from all causes during 1900 amounted to 160. From these must be deducted 24 deaths occurring within the District among persons not belonging thereto. Making this allowance gives a total of 136 deaths, equivalent to a death-rate of 12·9 per thousand. The death-rate for 1899 was 12·9; in 1898, 13·5; in 1897, 14·8; and in 1896, 14·8. Dividing the Urban District into three Parishes, the death-rate is apportioned thus:—All Saints, 11·1; St. Mary, 13·6; Exning, 14·.

The seven principal Zymotic Diseases caused 5 deaths. Two of these deaths were from enteric fever, two from whooping cough, and one from diarrhoea. There was also a death from enteric fever in the Fever Hospital, admitted from the Rural District. This is not taken into consideration in forming the death-rate. The three deaths, those from whooping cough and diarrhoea, occurred in children under 1 year. The zymotic death-rate for the year is ·47 per thousand.

Zymotic Deaths	Small Pox	Scarlet Fever	Diphtheria	Typhoid Fever	Measles	Whooping Cough	Diarrhoea
1896	0	0	0	2	1	3	0
1897	0	0	0	0	0	0	6
1898	0	0	0	0	9	0	6
1899	0	0	2	0	0	1	4
1900	0	0	0	2	0	2	1

The death-rate from phthisis is 1·7 per thousand, and from Cancer ·66 per thousand.

III. THE INFECTIOUS DISEASES (NOTIFICATION) ACT.—The number of cases notified under this Act during the year under consideration amounted to 21, last year 25, and in 1898 also 25.

Cases Notified	Small Pox	Scarlet Fever	Diphtheria	Croup	Typhoid Fever	Puerperal Fever	Erysipelas
1896	0	4	9	0	8	0	14
1897	0	12	4	0	1	1	5
1898	0	16	2	0	3	0	4
1899	0	10	6	0	4	0	5
1900	0	7	0	0	11	0	3

The Fever Hospital is situate in the parish of Exning, within the Urban District. There were admitted from the Urban District 6 cases of scarlet fever, and 3 of enteric fever.

Small Pox.—No case of this disease was notified during 1900.

Scarlet Fever.—There were 7 cases of scarlet fever notified during the year, 6 of which were admitted to the Fever Hospital, and in each case the premises were well disinfected, and the school authorities were notified of the existence of the disease at the several houses. The remaining case was imported from Mildenhall, and the parents were prosecuted under Section 126 of the Public Health Act, 1875, and fined 50/- and 38/6 costs.

Measles.—Very few cases of measles have come under notice during the year.

Typhoid Fever.—There were 11 cases of typhoid fever notified, 9 of which occurred in Exning during the months of September, October and November. One of the remaining cases also occurred in Exning in the early part of the year, and the other was an imported case into the All Saints' Parish. The outbreak in September originated at a public house, and in which eventually the two deaths took place. The water supply was not of a satisfactory nature, and was derived from a well not more than 18 feet from a refuse pit. The water in this case after analysis was condemned, and a stand pipe connected with the Company's main placed at the disposal of the occupier, a privilege which was also allowed to all the succeeding cases. The milk supply was from

THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION

PUBLISHED WEEKLY
535 N. Dearborn Ave., Chicago, Ill.
Subscription Price, \$5.00 per Annum in Advance
Single Copies, 15 Cents

Entered as Second-Class Matter, October 3, 1917, Post Office at Chicago, Ill., under No. 384,391.
Acceptance for mailing at special rate of postage provided for in Act of October 3, 1917, authorized on July 1, 1918.

Postage paid at Chicago, Ill., and at additional mailing offices.
Postmaster: Send address changes to JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION, 535 N. Dearborn Ave., Chicago, Ill.

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Printed at the Chicago Press and Publishing Co., Chicago, Ill.

Volume 17, Number 1, January 1, 1918

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several different sources, and was above suspicion. Sanitary tins were supplied in all cases, and were removed twice a day, and the excreta taken to the Sewage Farm and buried. Disinfectants were liberally supplied where required, and the several houses were disinfected at the termination of the case. The outbreak was very localised, and did not spread to other parts of the village.

Erysipelas.—There has again been a diminution of this complaint, only 3 cases being notified.

Diphtheria.—No case has occurred in the District during the year.

In accordance with your instructions, a house-to-house visitation was made of the "Rookery," and the special Report relating thereto is affixed to this Report.

THE NEW MAIN DRAINAGE SCHEME.—I am glad to be able to report that the New Main Drainage Scheme, which has engaged your attention for some years past, is now in active progress of construction, and will, in my opinion, when completed, together with an efficient system of sewage purification, meet all your requirements for many years to come.

In conclusion, I strongly endorse the recommendation of the late Medical Officer of Health as to the advisability of your Council erecting public urinals.

I have the honour to be,

Your obedient servant,

WALTER HUTCHINSON,

Newmarket,
January, 1901.

MEDICAL OFFICER OF HEALTH.

NEWMARKET URBAN DISTRICT COUNCIL.

SURVEYOR'S OFFICE,

TOWN HALL, NEWMARKET,

JANUARY 31st, 1901.

To the Chairman and Members of the Newmarket Urban District Council.

GENTLEMEN,

I beg to submit the following particulars of Sanitary Work carried out during the year 1900:—

SCAVENGING.—The Scavenging and Watering of the Roadways, &c., under your jurisdiction has been regularly attended to; the street gulleys have been cleared of deposit immediately after storms, and periodically; and the sewers have been thoroughly flushed with disinfectant during the summer months.

SEWERAGE.—Three Contracts are now in progress in addition to the Outfall Bacteria Beds which are being carried out by your own administration, and progressing favourably. As this work is dealt with by means of Quarterly Reports to your Council, there is no need for me to go into further details at this stage.

In connection with this New Main Drainage Scheme now in progress, I should like to emphasise the necessity of bringing up to a good standard all house drains in connection with premises either at present drained into existing sewers, or into cesspools. It is imperative that all defects existing therein must be remedied, and the time is now opportune for such work to be carried out and properly recorded.

I need hardly point out that, as the Council is providing an efficient Main Drainage Scheme for the town and district of Newmarket, it is equally the duty of property owners to take steps to put into a good sanitary condition their various properties, and it will be patent to all, that a Scheme cannot be said to be complete and efficient unless all tributary drains connected therewith are likewise made perfect or as near as may be practicable under the circumstances.

SEWAGE DISPOSAL.—For about three months during the year, it was necessary to abandon the working of both Cinder Filter Beds by reason of the construction of the Main Sewer, during which time some portion of the Sewage had to be treated on the additional land purchased from the Jockey Club, these Cinder Beds have now been restored to their original condition, and have resumed their work as hitherto.

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A portion of the added land was cultivated, and roots, kohl rabi and mangold were grown with good results.

EXNING.—I take this opportunity of suggesting to the Council the advisability of taking such measures as will lead to abolishing the privy midden system now in operation in this portion of the added area, and substituting as far as may be practicable water closets. The system now in operation is not only very costly in maintenance owing to the necessity of night work, but at the sametime, insanitary. Good pipe sewers are now being laid, affording to owners every facility for a water carriage system not hitherto permissible.

HOUSE REFUSE.—The systematic removal of house refuse from premises has been carried out during the year throughout the District, the material is accumulating at the Sewage Farm with a view to its being utilized as Clinker for filling the Bacteria Beds now in course of construction.

The following Notices have been received during the year from Statutory Companies, &c., for breaking open the Streets under the Public Health and other Acts incorporated therewith:—

Newmarket Waterworks Company	...	...	...	No. 13
Newmarket Gas Company	...	...	...	„ 71
Newmarket Electric Light Company	...	...	...	„ 25

HIGHWAYS.—The repair of highways has been unavoidably delayed somewhat, in consequence of the failure of the Granite Companies in forwarding the broken granite metalling. I should advise in future that proper steps be taken to enforce the Companies to fulfil their Contracts, and impose a penalty where considered necessary to do so.

Several small improvements have been effected, namely at "The Rows" and Green Road, near the Railway, these short lengths have been made up and are now in a fair good condition.

STREET WIDENING.—The following streets have been improved, namely, Fitzroy Street, Newmarket, Church Street, and Swan Lane, Exning, the Bridge over the stream at the latter place has been re-built, at a cost of £181, towards which the West Suffolk County Council contributed £75 by arrangement.

WATER.—Fifteen samples of drinking water have been examined by the County Analyst, six of which were found to be unfit for domestic use, in these cases the Company's tap water has been laid on.

SEWAGE AND EFFLUENTS.—Five samples of crude sewage and five samples of sewage effluent have been analysed, shewing a purification of 75 per cent effected in the Cinder Beds at the Sewage Farm.

It has been necessary to institute legal proceedings only once during the year, viz., in respect of wilfully exposing a child to the public danger whilst suffering from Scarlet Fever, resulting in a fine of 50/- and costs.

THE PARTICULARS OF THE URBAN DISTRICT ARE AS FOLLOWS:—

Area	...	5,640 Acres.	Population (Estimated)	...	10,500.
Rateable Value	...	£72,196.	Highways	...	22½ Miles.

SUMMARY.

Fever Patients removed to Infectious Hospital	...	...	...	10
Disinfecting Premises after Infectious Diseases	...	...	...	20
Official notices to repair defective drains and w.c.'s	...	...	...	10
Ditto cleanse out cesspools	...	...	...	3
Ditto abate overcrowding	...	...	...	2
Ditto remove pigs	...	...	...	3
Ditto to provide wholesome water supply	...	...	...	6
Samples of water analysed	...	...	...	15
Samples of sewage and effluents analysed	...	...	...	10

PLANS APPROVED FOR.

Shops	...	...	...	6
Hotel	...	...	...	1
Schools	...	...	...	2
Houses	...	...	...	66
Training Establishments	...	...	...	2
Stables and Outbuildings	...	...	...	12
Alterations and Additions	...	...	...	14

Your obedient Servant,

JOHN W. METCALF,

Surveyor and Inspector of Nuisances.

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TABLE 1.

Name of District *Newmarket Urban District*

For Whole District.

YEAR.	Population estimated to Middle of each Year.	BIRTHS.		DEATHS UNDER ONE YEAR OF AGE.		DEATHS AT ALL AGES. TOTAL.		DEATHS IN PUBLIC INSTITUTIONS.	Deaths of Non-residents registered in District.	Deaths of Residents registered beyond District.	DEATHS AT ALL AGES. NETT.	
		Number.	Rate.*	Number.	Rate per 1000 Births registered.	Number.	Rate.*				Number.	Rate.*
1	2	3	4	5	6	7	8	9	10	11	12	13
1890.	5874	165	28.10	16	96	138	23.5	45				15.83
1891.	6286	153	24.6	17	111	120	19.0	32				14.16
1892.	6286	158	25.13	19	120	138	22.0	39				16.54
1893.	6365	no record		33		137	21.9	25				17.59
1894.	6444	165	25.60	24	142	128	19.8	28				15.51
1895.	9349	175	18.7	25	142	133	14.2	26				11.4
1896.	8631	287	33.3	20	70	151	17.4	23				14.8
1897.	8631	271	31.5	45	169	166	19.2	36				14.8
1898.	9820	263	26.8	46	175	153	15.4	20				13.5
1899.	10500	277	26.5	50	180	167	15.9	31				12.9
Averages for years 1890—1899	7818	212	27.0	29	133	143	18.2	30				
1900.	10500	275	26.19	35	127	160	15.2	33	24	4	136	12.9

*Rates calculated per 1,000 of estimated population.

NOTE.—The deaths to be included in Column 7 of this table are the whole of those registered during the year as having actually occurred within the district or division. The deaths to be included in Column 12 are the number in Column 7 corrected by the subtraction of the number in Column 10 and the addition of the number in Column 11.

By the term "Non-residents" is meant persons brought into the district on account of illness, and dying there; and by the term "Residents" is meant persons who have been taken out of the district on account of illness, and have died elsewhere.

Area of District in acres (exclusive of area covered by water.) *5640*

Total population at all ages *8631*

Number of inhabited houses

Average number of persons per house

At Census of 1891.

Chemical Analysis of the Soil

For the purpose of the present investigation

No. of Sample	Date of Collection	Location	Depth (cm)	Moisture (%)	pH
1	1910.10.15	Field No. 1	0-10	12.5	7.2
2	1910.10.15	Field No. 1	10-20	11.8	7.1
3	1910.10.15	Field No. 1	20-30	11.2	7.0
4	1910.10.15	Field No. 1	30-40	10.5	6.9
5	1910.10.15	Field No. 1	40-50	9.8	6.8
6	1910.10.15	Field No. 1	50-60	9.2	6.7
7	1910.10.15	Field No. 1	60-70	8.5	6.6
8	1910.10.15	Field No. 1	70-80	7.8	6.5
9	1910.10.15	Field No. 1	80-90	7.2	6.4
10	1910.10.15	Field No. 1	90-100	6.5	6.3
11	1910.10.15	Field No. 2	0-10	13.0	7.3
12	1910.10.15	Field No. 2	10-20	12.2	7.2
13	1910.10.15	Field No. 2	20-30	11.5	7.1
14	1910.10.15	Field No. 2	30-40	10.8	7.0
15	1910.10.15	Field No. 2	40-50	10.1	6.9
16	1910.10.15	Field No. 2	50-60	9.4	6.8
17	1910.10.15	Field No. 2	60-70	8.7	6.7
18	1910.10.15	Field No. 2	70-80	8.0	6.6
19	1910.10.15	Field No. 2	80-90	7.3	6.5
20	1910.10.15	Field No. 2	90-100	6.6	6.4

The following table gives a summary of the results of the chemical analysis of the soil. The results are given in the form of percentages of the various constituents of the soil. The results are given in the form of percentages of the various constituents of the soil. The results are given in the form of percentages of the various constituents of the soil.

The following table gives a summary of the results of the chemical analysis of the soil. The results are given in the form of percentages of the various constituents of the soil. The results are given in the form of percentages of the various constituents of the soil. The results are given in the form of percentages of the various constituents of the soil.

TABLE II.

Name of District *Newmarket Urban District*

NAMES OF LOCALITIES.	1. <i>Benning</i>				2. <i>St Mary</i>				3. <i>All Saints</i>				4.	5.	6.	7.
	Population esti- mated to middle of each year.	Births regis- tered.	Deaths at all Ages.	Deaths under 1 year.	Population esti- mated to middle of each year.	Births regis- tered.	Deaths at all Ages.	Deaths under 1 year.	Population esti- mated to middle of each year.	Births regis- tered.	Deaths at all Ages.	Deaths under 1 year.	Population esti- mated to middle of each year.	Births regis- tered.	Deaths at all Ages.	Deaths under 1 year.
1890	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d
1891																
1892																
1893																
1894																
1895																
1896																
1897																
1898																
1899																
Averages of Years 189 to 1899.																
1900	3357	93	47	12	3023	76	43	11	4103	146	46	12				

NOTES.—(a) The separate localities adopted for this table should be areas of which the populations are obtainable from the census returns, such as wards, parishes or groups of parishes, or registration sub-districts. Block 1 may, if desired, be used for the whole district; and blocks 2, 3, &c., for the several localities. In small districts without recognised divisions of known population this Table need not be filled up.

(b) Deaths of residents occurring beyond the district are to be included in sub-columns c of this table, and those of non-residents registered in the district excluded. (See note on Table I, as to meaning of terms "resident" and "non-resident.")

(c) Deaths of residents occurring in public institutions are to be allotted to the respective localities, according to addresses of the deceased.

TABLE III.

[See Instructions on page 3 of Memorandum as to Reports of Medical Officers of Health.]

Cases of Infectious Disease notified during the Year 1900.

Newmarket Urban District

NOTIFIABLE DISEASE.	CASES NOTIFIED IN WHOLE DISTRICT.							TOTAL CASES NOTIFIED IN EACH LOCALITY.							No. OF CASES REMOVED TO HOSPITAL FROM EACH LOCALITY.						
	At Ages §—Years.							1	2	3	4	5	6	7	1	2	3	4	5	6	7
	Under 1	1 to 5	5 to 15	15 to 25	25 to 65	65 and upwards.															
Small-pox																					
Cholera																					
Diphtheria																					
Membranous croup																					
Erysipelas	3			1	1			2		1											
Scarlet fever	7	2	5						1	6									6		
Typhus fever																					
Enteric fever	11		4	4	3			10		1					3						
Relapsing fever																					
Continued fever																					
Puerperal fever																					
Plague																					
Totals	21	2	9	5	4	1		12	1	8					3				6		

NOTES.—The localities adopted for this table should be the same as those in Tables II. and IV.

State the name of the isolation hospital, if any, used by the sick of the district. Mark (H) the locality in which it is situated, or if not within the district, state where it is situated, and in what district.

* This space may be used for record of other disease the notification (compulsory or voluntary) of which is in force in the district.

† These age columns for notifications should be filled up in all cases where the Medical Officer of Health, by inquiry or otherwise, has obtained the necessary information.

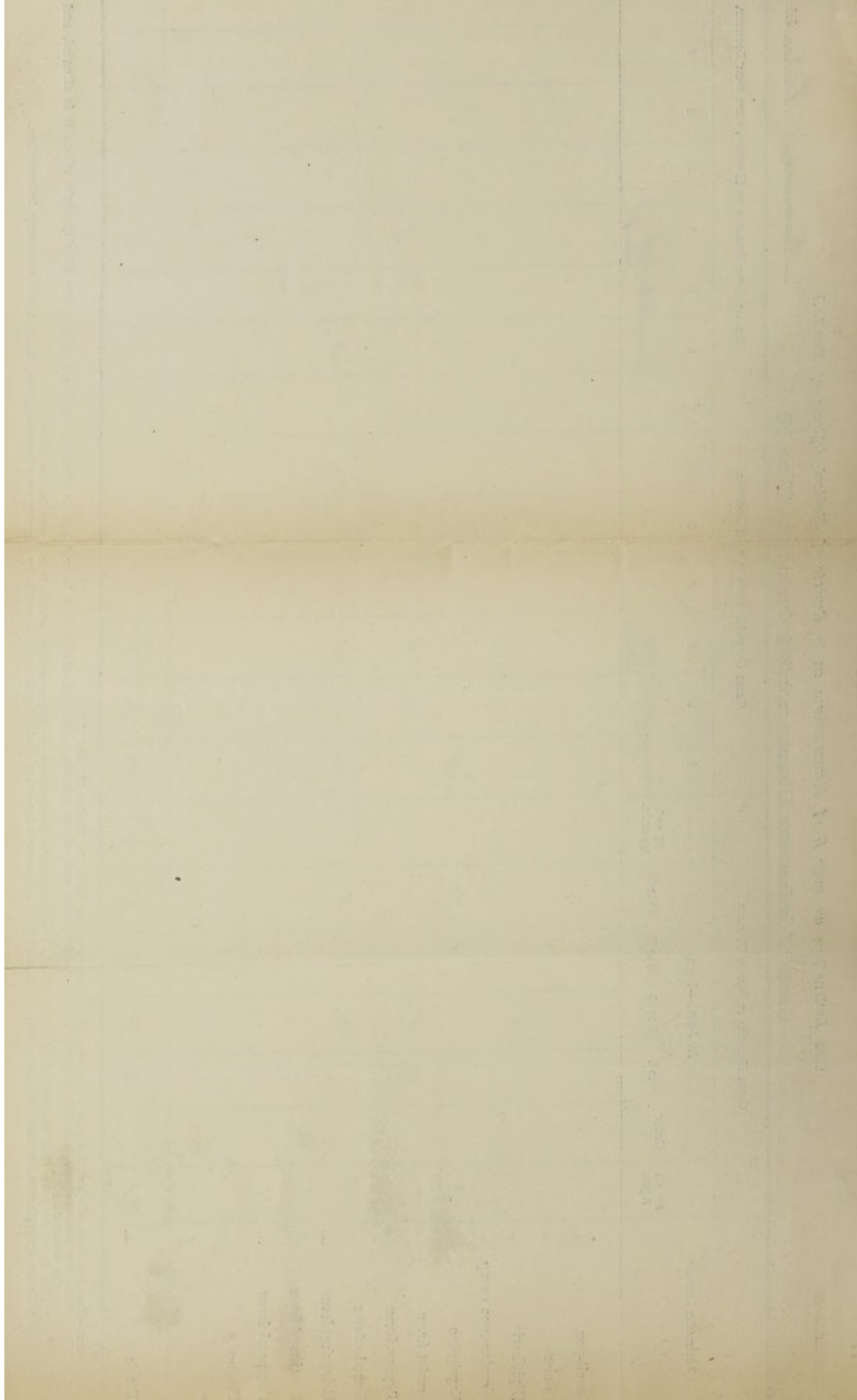


TABLE IV.

Newmarket Urban District.

Causes of, and Ages at, Death during year 1900 .

CAUSES OF DEATH.	DEATHS IN WHOLE DISTRICT AT SUBJOINED AGES.							DEATHS IN LOCALITIES (AT ALL AGES).			DEATHS IN PUBLIC INSTITU- TIONS.
	All ages.	Under 1	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and up- wards.	<i>St. James</i>	<i>St. Mary</i>	<i>All Saints</i>	
Small-pox											
Measles											
Scarlet Fever ..											
Whooping Cough ..	2	2						2			
Diphtheria and Mem- branous croup											
Croup											
Typhus											
Fever { Enteric	3			1	1	1		2			1
Other continued											
Epidemic influenza...	2	1				1		1	1		
Cholera											
Plague											
Diarrhoea. (See notes at back.)	1	1							1		
Enteritis. (See notes at back.)	8	8						2	2	4	
Puerperal fever ...											
Erysipelas											
Other septic diseases											
Phthisis	18			1	5	12		4	2	5	7
Other tubercular di- seases	2	2						1	1		
Cancer, malignant di- sease	7					4	3	4	3		
Bronchitis ...	8	3				2	3	2	1	5	
Pneumonia	9		3		1	5		4		5	
Pleurisy ...	1						1			1	
Other diseases of Res- piratory organs ...	3	1				1	1	2		1	
Alcoholism {											
Cirrhosis of liver }	8					8		1	5	2	
Venereal diseases ...	1					1					1
Premature birth ...	1	1							1		
Diseases and accidents of parturition	1				1			1			
Heart diseases ...	16	2		2	1	2	9	4	6	5	1
Accidents ...	1					1					1
Suicides ...	3					3		1	1	1	
<i>Brain diseases</i> ..	9	1			1	5	2	4	1	4	
<i>Concretions</i>	6	5	1					3	1	2	
.....											
.....											
.....											
.....											
All other causes	50	8			1	7	34	7	9	8	26
All causes ...	160	35	4	4	11	53	53	45	35	43	37

See Notes at Back.

NOTES — (a) The deaths of residents occurring beyond the limits of the district are to be included in this table, and deaths of non-residents occurring in the district are to be excluded. See note on Table I. as to meaning of "Residents" and "Non-residents."

(b) Deaths of residents occurring in public institutions are to be allotted to the respective localities according to the addresses of the deceased as given by the Registrars, and, in addition, to be classified under "Public Institutions."

(c) Under the heading of "Diarrhoea" are to be included deaths certified as from diarrhoea, alone or in combination with some other cause of ill-defined nature; and also deaths certified as from

Epidemic enteritis;

Zymotic enteritis;

Epidemic diarrhoea. Summer diarrhoea;

Dysentery and dysenteric diarrhoea;

Choleraic diarrhoea, cholera, cholera nostras (in the absence of Asiatic cholera).

Under the heading of "Enteritis" are to be included those certified as from Gastro-enteritis, Muco-enteritis and Gastric catarrh, unless from information obtained by enquiry from the certifying practitioner or otherwise, the Medical Officer of Health should have reason for including such deaths, especially those of infants, under the specific term "Diarrhoea."

Deaths from diarrhoea secondary to some other well-defined disease should be included under the latter.

In recording the facts under the various headings of Tables I., II., III. and IV., attention has been given to the notes on the Tables.

Walter Hutchinson Medical Officer of Health.

Date 31 January 1901