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**Publication/Creation**

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County

Borough



of Bolton.

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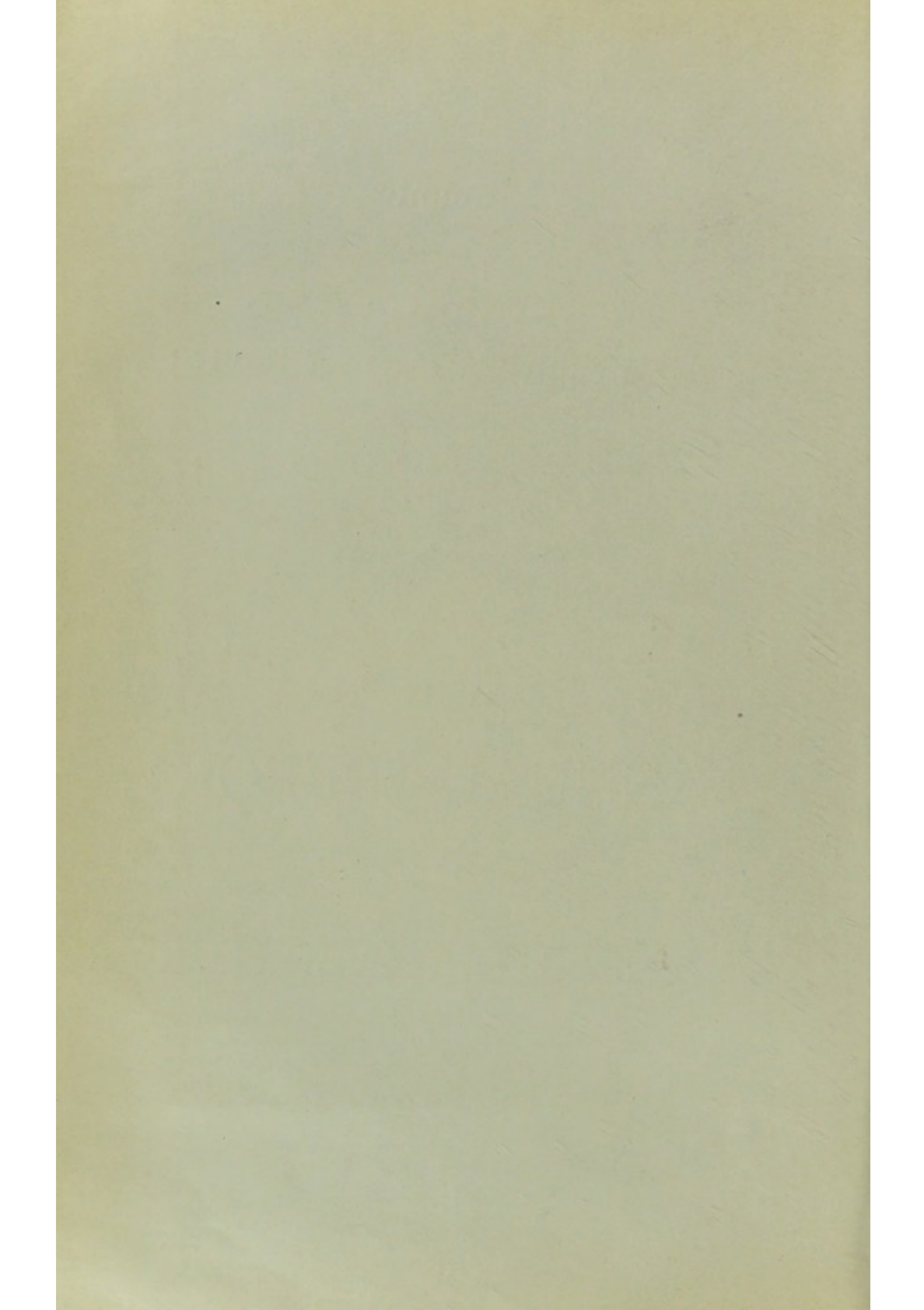
# ANNUAL REPORT

OF THE

**Medical Officer of Health**

FOR

**1921.**



iii.

PUBLIC HEALTH DEPARTMENT,  
BOLTON.

12th September, 1922.

*To the Chairman and Members of the Public Health Committee.*

Ladies & Gentlemen,

I beg to submit to you the Annual Report on the Sanitary Conditions of the County Borough of Bolton for the year 1921.

It was on the first day of December of that year that I became Medical Officer of Health ; but Dr. Gould, the late Medical Officer of Health, was, on account of illness, absent from duty from the 23rd of May until the termination of his tenure of office. During that period I had to perform all the duties of Medical Officer of Health and Tuberculosis Officer single-handed, Dr. McKeague, the Assistant School Medical Officer, being fully occupied with his school duties.

It has been suggested by the Ministry of Health, that Annual Reports of a full and detailed character (to be known as Survey Reports) should only be produced every fifth year, the reports for the intervening years (designated Ordinary Reports) being of a simpler character. The object is to reduce the time spent by Medical Officers of Health in preparing their reports, and also to reduce the cost of printing them.

Dr. Gould's excellent reports were for many years constructed on identical lines, and, as all records were kept in 1921 with a view to the production of a report similar in plan to those of the preceding year, I have decided that the report for 1921 shall, in form, be identical with its predecessors, any further information asked for by the Ministry of Health being added.

I take this opportunity of expressing my sincere appreciation of the able and loyal assistance given me by the Deputy Medical Officer of Health, Dr. McKeague, by the Chief Clerk, Mr. Herbert Daniels, and all the members of the Public Health Staff.

In conclusion I desire for myself and for the whole staff of the Public Health Department to express our sincere appreciation of the ability with which Dr. Gould conducted the department during his tenure of office, and our hope that he may long enjoy a well earned rest.

I am, Ladies & Gentlemen,

Your obedient servant,

C. W. PAGET MOFFATT,

Medical Officer of Health and  
School Medical Officer.

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## COUNTY BOROUGH OF BOLTON.

### PUBLIC HEALTH COMMITTEE.

*The Mayor*—Counc. W. RUSSELL, J.P.

*Chairman*—Ald. E. ASPINALL, J.P.

*Vice-Chairman*—Counc. P. KNOTT.

Ald, SIR KNOWLES EDGE, J.P.	Counc. A. E. HOLT, J.P.
„ G. S. IKIN.	„ J. KEARSLEY.
„ Dr. E. MONKS.	„ S. LOMAX.
„ F. STEEL.	„ J. W. MAKANT.
Counc. B. L. AGNEW.	„ Dr. F. ROBINSON.
„ H. BOMMER.	„ L. SHAW.
„ J. H. EDGE.	„ E. TAYLOR.
„ Sir T. FLITCROFT, J.P.	„ G. F. VICKERS.

### *Co-opted Members on the Maternity & Child Welfare Sub-Committee—*

Mrs. E. HODKINSON, (Representative of the Bolton School for Mothers and Babies' Welcome).

Mrs. L. ALDRED, (Representative of the Bolton Midwives' Assn.

Mrs. S. E. JONES.

### PUBLIC HEALTH & MEDICAL INSPECTION STAFF.

*Chief Disinfecter*— JOHN WILSON.

*School Nurses*— 1. Miss R. BODDINGTON, 3 years' Cert.

2. Miss J. ROBBINS, 3 years' Cert.

3. Miss D. WALMSLEY, C.M.B. & 3 years' Cert.

*Health Visitors*— 1. Miss S. A. RAMSDEN, C.M.B., Cert. R. San. I.

2. Mrs. C. RAINBIRD, 3 years' Cert.

3. Miss A. MARSH, 3 years' Cert.

4. Miss E. TANNER, 3 years' Cert.

5. Miss A. STEEPLES, C.M.B.

3 years' Cert. (Mat. Hosp.)

6. Miss S. ANDERTON, C.M.B. & 3 years' Cert.

*Matron-Haslam Maternity Home*—Miss C. J. BARON.

*Matron-Borough Fever Hospital*—Miss E. BATEMAN.

*Sanitary Inspectors*—1. EDWARD OAKES, Cert. R. San. I.

2. THOMAS ORMROD, Cert. R. San. I.

3. FRED S. ROSCOE, Cert. R. San. I.

4. HAROLD THOMAS OGDEN, Cert. R. San. I.

5. FRANK MARKLAND, Cert. R. San. I. and

Cert. for Food.

6. CHARLES J. DAWSON, Cert. R. San. I.

*Chief Clerk and Sanitary Inspector*—

HERBERT DANIELS, Cert. R. San. I.

*Veterinary and Chief Meat Inspector*—W. H. BRIDGE, M.R.C.V.S.

*Public Analyst and Bacteriologist*—

HARRY HURST, B.Sc. Lond. and Sheff., F.I.C.

*Assistant Medical Officer of Health and Assistant School Medical Officer*—

EVELYN D. BROWN, M.B., Ch.B., D.P.H. Liverp.

*Tuberculosis Officer and Deputy Medical Officer of Health*—

JOHN MCKEAGUE, L.R.C.P., L.R.C.S. Edin., D.P.H. Dublin.

*Medical Officer of Health and School Medical Officer*—

C. W. PAGET MOFFATT, M.A. Lond., M.B., B.C., D.P.H., Cantab.

M.R.C.S. Eng., L.R.C.P. Lond.

SUMMARY OF  
VITAL AND MORTAL STATISTICS

SECTION I.

---

Vital and Mortal Statistics.

REPORT OF THE COMMISSIONER OF THE LAND OFFICE

FOR THE YEAR 1870

ALBANY: J. B. LEECH, 1871.

PRINTED BY THE COMMISSIONER OF THE LAND OFFICE.

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PRINTED BY THE COMMISSIONER OF THE LAND OFFICE.

ALBANY: J. B. LEECH, 1871.

# SUMMARY OF VITAL AND MORTAL STATISTICS 1921.

Position	Lat. 53° 35' N., Lon. 2° 27' W
Elevation above sea level	230ft. to 1450ft.
Geological Formation:	Boulder Clay and Sand over Coal Measures.
Area in Acres	15279
Population (Census 1921)	178678
Population (Census Correction by Registrar General and mid-yearly estimated population, 1921)	182200
Density	11·9
New Houses Certified, 1921	225
Estimated No. of houses in the Borough	43136
Rateable Value at 31st March, 1922	£1067325
Sum represented by a penny rate (1921-1922)	£3711-1-9
Births	3831
Birth-rate	21·0
Deaths	2349
Death-rate (corrected for Institutions)	12·8
Average Death-rate (1912-1921)	14·7
Infantile Mortality	96
Epidemic Death-rate (seven chief diseases)	·62
Diarrhœa and Enteritis (under 2 years), Death rate per 1000 Births	13·5
Phthisis Death-rate	·88
Other forms of Tuberculosis, Death-rate	·20
Respiratory Death-rate	2·5
Rainfall (Av. 1887-1920—42·924 <sup>u</sup> )	39·124 <sup>u</sup>
96 Great Towns Birth-rate...	23·3
96 Great Towns Death-rate	12·3
96 Great Towns Infantile Mortality	87
96 Great Towns Diarrhœa and Enteritis (under 2 years) Death-rate per 1000 Births	19·3
England and Wales Birth-rate	22·4
England and Wales Death-rate	12·1
England and Wales Infantile Mortality	83
England and Wales Diarrhœa and Enteritis (under 2 years), Death-rate per 1000 Births	15·5

## **Population.**

The census of 1921, as originally planned, should have taken place on the 24th of April. It was unavoidably postponed until the 19th of June, a time when the population of the town was undoubtedly reduced in number by the usual summer holiday exodus, a movement which had begun unusually early on account of the abnormally fine weather. The Registrar General, in order to correct this source of error, has made an adjustment by which the mid-yearly population for 1921 is fixed at 182,200. All calculations for the year 1921 which depend on the population are based on this corrected figure.

The estimated populations of practically all areas throughout the country have been shown by the census of 1921 to be very misleading. The estimated population of Bolton for 1920 was 184,533, a figure which, in the light of the census of 1921, is quite obviously too high.

## **Birth-rate and Births.**

3,831 births were registered during the year, of which 1,953 were males and 1,878 females. This is equal to a birth-rate of 21.0 which is higher than the average for the last ten years. The birth-rate as given by the Registrar General was 21.4.

The illegitimate births numbered 192 or 5.0 per cent of the total births. 16 of the illegitimate births occurred in the Townleys Hospital.

180 stillbirths were notified during the year.

## **Death-rate and Deaths.**

The death-rate for 1921 was 12.8 (as given by the Registrar General, 12.9), the lowest death-rate recorded for Bolton. The lowest death-rate for Bolton prior to 1921, was the death-rate for 1920, which was given as 13.6. It was calculated, however, on an estimated population which was undoubtedly greater than the actual population and the figure 13.6 is therefore too low.

2,349 deaths (1,155 males and 1,194 females) were registered of Bolton residents. This included 392 deaths of persons whose usual or fixed residence was in Bolton but who died in some institution or

residence outside Bolton, and excluded 81 non-residents of Bolton who died in the town.

290 Bolton residents died in Townleys Hospital, 49 in Lunatic Asylums, 126 in Bolton Infirmary, 27 in Borough Hospitals and 53 in other places outside the Borough. Of the 81 deaths in Bolton of non-residents, 72 occurred in the Bolton Infirmary.

The death-rates varied from 16·3 in East Ward to 9·7 in Darcy Lever-cum-Brightmet Ward.

### **Bolton Census Populations, &c.**

Year.	Census Population.	Birth-rate. (Calculated on estimated population)	Death-rate.	Infantile Mortality
1891*	115,002 (Old Borough) 146,487 (Extended Borough)	33·9	21·6	165
1901	168,215	27·5	18·3	172
1911	180,851	22·9	16·3	160
1921	178,678	21·0	12·8	96

\*Borough extended in 1899.

## POPULATIONS, BIRTH-RATES, DEATH-RATES, &amp;C., IN WARDS, 1921.

WARD.					Estimated Population.	Birth- rate.	Death- rate.	Pul. Tub. Death- rate.	Infantile Mortality.
West	...	...	...	...	26679	22'3	13'1	1'1	93
Halliwell	...	...	...	...	22009	20'9	10'3	'4	67
Bradford	...	...	...	...	19840	21'7	13'3	1'1	118
Derby	...	...	...	...	19188	25'9	15'0	1'0	102
East	...	...	...	...	9894	25'0	16'3	1'4	108
Rumworth	...	...	...	...	8998	25'8	11'8	1'1	77
Church	...	...	...	...	8414	13'7	11'7	'9	129
North	...	...	...	...	7462	17'8	14'2	1'0	150
Exchange	...	...	...	...	4632	14'8	15'7	2'5	217
Old Borough					127116	21'9	13'2	1'0	101
Great Lever	...	...	...	...	12351	21'3	12'5	'2	79
Tonge	...	...	...	...	9823	19'7	12'6	'6	67
Astley Bridge	...	...	...	...	8344	19'5	10'9	'7	85
Smithills	...	...	...	...	7104	15'6	13'3	'9	81
Hulton	...	...	...	...	6302	17'7	12'6	'1	142
Deane-cum-Lostock	...	...	...	...	4215	16'6	11'3	'7	71
Darcy Lever-cum-Brightmet	...	...	...	...	4115	20'8	9'7	—	58
Heaton	...	...	...	...	2830	15'1	13'4	'3	69
Added Area					55084	18'9	12'1	'4	82
Extended Borough					182200	21'0	12'8	'88	96

**BIRTH-RATE, DEATH-RATE AND INFANTILE MORTALITY  
IN CHIEF LANCASHIRE MANUFACTURING TOWNS.**

Figures taken from the Annual Summary of the  
Registrar General)  
1921.

	Birth-Rate.	Death-Rate.	Infantile Mortality.
England and Wales	22·4	12·1	83
96 Great Towns	23·3	12·3	87
<hr/>			
Bootle ... ..	28·1	12·1	84
Warrington ...	26·5	12·1	94
St. Helens ...	29·2	12·6	105
Blackburn ...	20·1	12·7	107
BOLTON ... ..	21·4	12·9	96
Bury ... ..	19·7	12·9	84
Rochdale ... ..	19·1	13·2	88
Salford ... ..	25·2	13·4	101
Preston ... ..	24·1	13·4	112
Manchester ...	24·8	13·6	94
Burnley ... ..	22·9	13·6	117
Wigan ... ..	28·1	14·0	115
Liverpool ... ..	27·4	14·3	105
Oldham ... ..	21·7	14·6	105

POPULATION, DENSITIES, BIRTH-RATES, DEATH-RATES AND  
INFANTILE MORTALITY IN PREVIOUS YEARS.

Year.	Population	Density	Births	Birth-rate	Deaths	Death-rate	Infantile Mortality
1773	5600	3'0					
1791-1800	14437	7'8					
1801-1830	28349	15'3					
*1831-1860	54463	29'5					
1861-1870	75999	41'2				29'4	
†1871-1880	91405	45'8	3841	40'6	2346	24'8	175
1881-1885	107507	45'5	3766	34'9	2270	21'0	169
1886-1890	112289	47'5	3725	33'1	2586	22'9	173
1891-1895	117286	49'6	3847	32'7	2610	22'2	185
‡1896-1900	138154	35'1	4246	30'9	2795	20'2	173
1901-1905	171065	11'1	4668	27'2	2968	17'3	157
1906-1910	177400	11'6	4555	25'6	2840	16'0	134
1911-1915	181075	11'8	4017	21'7	2759	15'2	129
1916	169081	11'0	3067	16'6	2419	14'3	104
1917	163411	10'6	2710	14'8	2477	15'1	107
1918	160619	10'5	2749	15'2	2804	17'4	105
1919	177462	11'6	3052	16'5	2652	14'9	86
1920	184533	12'0	4209	22'8	2528	13'6	98
1921	182200	11'9	3831	21'0	2349	12'8	96

\* Incorporation in 1838 with 48,000 population and 1840 acres.

† Added in 1878, part of Rumworth with 163 acres and 3000 population and part of Halliwell with 358 acres and 10,000 population.

‡ In 1899 Borough extended by 12,922 acres and 38,000 added to the population.

## SUMMARY OF THE PRINCIPAL CAUSES OF DEATH, 1921.

				No. of Deaths.	Per cent. of Total Deaths.
GENERAL DISEASES.					
(1)	Diphtheria	...	...	21	·89
(2)	Whooping Cough	...	...	25	1·06
(3)	Influenza	...	...	45	1·91
(4)	Pulmonary Tuberculosis	...	...	161	6·85
(5)	Other Forms of Tuberculosis	...	...	37	1·57
(6)	Cancer	...	...	214	9·11
(7)	Other General Diseases	...	...	105	4·46
NERVOUS SYSTEM.					
(1)	Cerebral Hæmorrhage, Apoplexy	...	...	110	4·68
(2)	Infantile Convulsions	...	...	31	1·31
(3)	Other Nervous	...	...	91	3·87
CIRCULATORY SYSTEM.					
(1)	Organic Disease of Heart	...	...	200	8·51
(2)	Diseases of Arteries	...	...	114	4·85
(3)	Other Circulatory	...	...	59	2·51
RESPIRATORY SYSTEM.					
(1)	Bronchitis	...	...	235	10·00
(2)	Pneumonia (all forms)	...	...	208	8·85
(3)	Other Respiratory	...	...	19	·80
DIGESTIVE SYSTEM.					
(1)	Diarrhœa and Enteritis	...	...	77	3·27
(2)	Other Digestive	...	...	100	4·25
GENITO-URINARY SYSTEM.					
(1)	Chronic Bright's Disease	...	...	49	2·08
(2)	Other Genito-urinary	...	...	46	1·95
DISEASES OF EARLY INFANCY.					
• (1)	Premature Birth	...	...	73	3·10
(2)	Atrophy, Debility, &c.	...	...	53	2·25
(3)	Other Diseases of Early Infancy	...	...	21	·89
OLD AGE...				115	4·89
VIOLENT CAUSES				80	3·40
MISCELLANEOUS CAUSES				60	2·55

### **Infantile Mortality.**

370 or 15·7 per cent. of the total deaths were those of children under one year of age, equal to an infantile mortality of 96 per 1000 births. The rates varied from 58 in Darcy Lever-cum-Brightmet to 217 in Exchange Ward.

#### CHIEF CAUSES OF DEATH UNDER ONE YEAR OF AGE.

	1916	1917	1918	1919	1920	Av. 1916 to 1920	1921
Total Deaths ... ..	320	291	291	263	416	316	370
Diarrhœa and Enteritis ... ..	31	17	29	23	40	28	49
Respiratory ... ..	77	42	57	57	99	66	68
Premature Births and Congenital Defects }	58	72	63	71	82	69	89
Atrophy and Debility ... ..	57	56	41	45	61	52	53
Convulsions and Meningitis ...	38	24	22	32	35	30	26
Tuberculous Diseases ... ..	7	10	6	2	7	6	7
Epidemic Diseases } (excluding Diarr.) }	12	33	34	7	34	24	19
All other Causes ... ..	40	37	39	26	58	40	59

The following figures shew the average quinquennial infant mortality in Bolton from 1876:—

Quinquennium.	Average rate.	Quinquennium.	Average rate.
1876-1880 ...	171	1916 ...	104
1881-1885 ...	169	1917 ...	107
1886-1890 ...	173	1918 ...	105
1891-1895 ...	185	1919 ...	86
1896-1900 ...	173	1920 ...	98
1901-1905 ...	157	1916-1920 ...	100
1906-1910 ...	134	1921 ...	96
1911-1915 ...	128		

### **Maternal Deaths in, or in consequence of Child-birth.**

There were 17 such deaths, of which 6 were due to sepsis.

## **Mortality from Epidemic Diseases.**

113 deaths were registered from the seven chief epidemic diseases. This is equal to a death-rate of '62.

### CAUSES OF DEATH FROM EPIDEMIC DISEASES.

	1917	1918	1919	1920	1921
Smallpox ... ..	—	—	—	1	—
Scarlet Fever ... ..	8	2	4	2	7
Diphtheria and Memb. Croup	22	26	61	35	21
Enteric and Continued Fever	7	5	5	6	3
Measles ... ..	134	1	18	27	5
Whooping Cough ... ..	8	85	—	34	25
Diarrhœa and Enteritis under 2 years of age... ..	25	33	27	41	52
Erysipelas ... ..	2	1	3	7	2
Puerperal Fever ... ..	1	2	1	5	6
Cerebro-spinal Fever ... ..	—	2	2	—	—
Influenza ... ..	19	367	301	70	45
Pulmonary Tuberculosis ...	189	198	173	154	161

### DEATH-RATES FROM THE SEVEN EPIDEMIC DISEASES, AND PULMONARY TUBERCULOSIS, 1866-1921.

Year.	Small- pox.	Scarlet Fever.	Diph- theria and Memb Croup	Fever.	Measles.	Whooping Cough.	Diarrhœa & Enteritis (under 2 yrs.)	Seven Chief Epidemic.	Pulmonary Tuber- culosis.
Av. 1866-1870 ...	'06	1'40	'03	'68	'86	'55	1'88	5'7	—
Av. 1871-1880 ...	'11	1'10	'02	'50	'68	'71	1'74	4'7	—
Av. 1881-1890 ...	'019	'27	'07	'21	'73	—	1'19	—	1'67
Av. 1891-1900 ...	'005	'19	'07	'28	'62	'53	1'28	3'02	1'52
Av. 1901-1910 ...	'005	'21	'14	'18	'32	'28	'77	1'96	1'26
Av. 1911-1915 ...	—	'04	'20	'08	'32	'20	'71	1'60	'95
1916 ... ..	—	'05	'11	'05	'05	'15	'22	'66	1'07
1917 ... ..	—	'04	'13	'04	'82	'04	'15	1'24	1'15
1918 ... ..	—	'01	'16	'03	—	'53	'20	'94	1'23
1919 ... ..	—	'02	'34	'02	'10	—	'15	'64	'97
1920 ... ..	'005	'01	'18	'03	'14	'18	'22	'79	'83
1921 ... ..	—	'03	'11	'01	'02	'13	'28	'62	'88



**SECTION II.**

---

**Infectious Diseases.  
Venereal Diseases,  
AND  
Hospital Isolation.**

Section II

Infectious Diseases

General Diseases

Hospital Isolation

### Notification Rates per 1000 Population.

COMPILED FROM THE REGISTRAR GENERAL'S QUARTERLY RETURNS

			Total Rate.	Scarlet Fever.	Diphtheria.	Enteric Fever
1.	Blackburn	...	2'49	1'63	'35	'01
2.	St. Helens	...	3'77	2'27	'51	'02
3.	Bury	...	4'16	2'45	'86	'01
4.	Burnley	...	4'44	1'57	1'98	'15
5.	Wigan	...	4'46	2'72	'56	'32
6.	BOLTON	...	4'72	3'26	1'14	'04
7.	Preston	...	5'07	3'06	1'46	'10
8.	Rochdale	...	5'12	3'90	'74	'02
9.	Warrington	...	5'16	3'43	1'13	'06
10.	Liverpool	...	5'86	3'74	1'44	'03
11.	Oldham	...	6'48	5'02	'73	'07
12.	Bootle	...	6'84	4'32	2'22	'05
13.	Manchester	...	9'54	7'28	1'39	'12
14.	Salford	...	9'65	7'44	1'32	'17

# NOTIFIABLE DISEASES DURING THE YEAR 1921.

Disease.	Cases Notified													Cases admitted to Borough Hosps or Sanatoria	Deaths												
	Under 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 10	10 to 15	15 to 20	20 to 35	35 to 45	45 to 65	65 and over	At all ages		Under 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 10	10 to 15	15 to 20	20 to 35	35 to 45	45 to 65	65 and over	At all ages
Diphtheria...	...	...	...	...	...	...	...	...	...	...	...	...	152	56	...	5	3	3	...	6	2	1	1	...	...	...	21
Scarlet Fever	...	6	14	23	37	257	183	49	14	5	3	...	591	299	...	...	...	1	4	4	1	...	...	...	1	...	7
Enteric Fever	...	...	...	...	...	...	3	1	2	1	1	...	8	7	...	...	...	...	...	...	...	1	...	...	...	...	3
Puerperal Fever	...	...	...	...	...	...	...	...	3	4	...	...	7	...	...	...	...	...	...	...	...	...	2	4	...	...	6
*Pneumonia	...	3	9	2	7	21	4	9	13	10	13	4	103	...	43	29	4	3	2	5	4	10	16	11	46	35	208*
Erysipelas...	...	1	...	...	...	...	...	...	13	11	41	10	87	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Ophthalmia Neonatorum	35	...	...	...	...	...	...	...	2	1	...	...	35	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Malaria	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Encephalitis Lethargica	...	...	1	...	...	1	2	2	...	...	1	...	7	...	...	1	...	...	1	1	...	...	...	...	1	...	4
Acute Poliomyelitis	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tuberculosis:—																											
a. Pulmonary { M. ...	1	1	...	...	...	3	...	6	19	17	36	2	85	120	1	1	...	...	1	1	5	18	17	32	3	79	
{ F. ...	1	...	1	...	...	3	4	9	31	16	10	...	75	80	1	1	1	1	...	...	4	13	25	19	14	3	82
{ Total ...	2	1	1	...	...	6	4	15	50	33	46	2	160	200	2	2	1	1	...	1	5	18	43	36	46	6	161
b. Non-Pulmonary { M. ...	1	1	1	4	2	12	8	3	4	2	1	1	40	18	2	2	1	2	...	1	3	2	1	1	1	1	17
{ F. ...	2	4	1	...	...	11	4	5	8	2	2	...	39	8	3	1	2	1	...	3	1	4	1	1	3	...	20
{ Total ...	3	5	2	4	2	23	12	8	12	4	3	1	79	26	5	3	3	3	...	4	4	6	2	2	4	1	37

\* The cases notified are Acute Primary and Acute Influenzal but the deaths include all forms of Pneumonia.

NOTIFIABLE DISEASES DURING THE YEAR.—continued.

Ophthalmia Neonatorum	Cases				Vision Unimpaired	Vision Impaired	Total Blindness	Deaths
	Notified	Treated						
		At Home	In Hospital					
	35	19	16 (15 in Bolton Infirmary and 1 in Townleys Hospital)	35	...	...	8 of the Cases notified during 1921 were dead when a census was taken on 31st May, 1922. Only one of the above died of Specific Disease	

## DISTRIBUTION OF NOTIFIED DISEASES IN WARDS, 1921.

WARDS.	Scarlet Fever.	Diphtheria and Memb. Croup.	Enteric.	Puerperal Fever.	Erysipelas.	Total.	Pulmonary Tuberculosis.	Non-pul. Tuberculosis.	Ophthalmia Neonatorum.	Pneumonia.	Malaria.	Acute Poliomyelitis.	Encephalitis Lethargica.
West ... ..	82	20	4	...	10	116	22	6	6	10	...	...	3
Halliwell ... ..	43	20	...	1	13	77	17	7	5	10	1	...	...
Bradford ... ..	58	8	...	1	5	72	16	21	2	14	...	...	...
Derby ... ..	59	18	...	1	7	85	11	6	11	12	1	...	...
East ... ..	16	8	...	...	10	34	20	10	3	4	...	...	1
Rumworth ... ..	50	12	1	1	6	70	10	3	1	12	1	1	1
Church ... ..	25	7	1	...	6	39	7	4	2	1	...	...	...
North ... ..	19	7	1	...	4	31	5	2	...	10	...	...	1
Exchange ... ..	10	2	...	...	...	12	11	2	2	1	...	...	...
Old Borough...	362	102	7	4	61	536	129	61	32	64	3	1	6
Great Lever ... ..	75	7	1	1	2	86	6	6	...	7	...	...	1
Tonge ... ..	52	10	...	1	3	66	7	3	...	...	...	...	...
Astley Bridge ... ..	29	4	...	1	6	40	6	2	1	9	...	...	...
Smithills ... ..	11	5	...	...	3	19	6	4	...	3	...	...	...
Hulton ... ..	38	5	...	...	5	48	...	2	1	15	...	...	...
Deane-cum-Lostock ... ..	15	12	...	...	6	33	2	...	...	...	...	...	...
Darcy Lever-c-Breightmet	6	3	...	...	...	9	2	1	1	4	...	...	...
Heaton ... ..	3	4	...	...	1	8	2	...	...	1	...	...	...
Added Area ... ..	229	50	1	3	26	309	31	18	3	39	...	...	1
Extended Borough ...	591	152	8	7	87	845	160	79	35	103	3	1	7

## INFECTIOUS DISEASES NOTIFIED FROM 1882 TO 1921.

Year Average.	Smallpox.	Scarlet Fever.	Diph. and Mem. Cro'p	Enteric Fever.	Typhus.	Puerperal Fever.	Cholera.	Erysipelas	Total.	Rate per 1000 Pop'n	Pulmonary Tubercul's	Non-pul. Tubercul's	Ophthalmia Neonatorum.	Measles.	Pneumonia Ac. Prim. & In	Malaria.	Dysentery.	Cerebro- spin. Men.	Acute Pol- iomyelitis	Encephalitis Lethargica
1882-1890	34	582	34	105	9	3	5	—	767	6.7	—	—	—	—	—	—	—	—	—	—
1891-1900..	6	642	57	182	2	8	1	1	898	6.9	—	—	—	—	—	—	—	—	—	—
1901-1910..	14	951	113	165	—	10	—	82	1335	7.4	170	—	—	—	—	—	—	—	—	—
1911-1915..	—	408	150	57	—	6	—	108	729	4.0	297	96	27	—	—	—	—	1	—	—
1916 ...	—	312	114	39	—	5	—	87	557	3.2	233	69	28	—	—	—	—	—	—	—
1917 ...	—	374	92	24	—	1	—	54	545	3.3	234	45	23	3416	—	—	—	1	—	—
1918 ...	—	224	105	24	—	2	—	46	401	2.4	198	86	16	343	—	—	—	2	—	—
1919 ...	3	289	259	9	—	7	—	87	654	3.6	185	95	41	1780	240	102	1	3	—	—
1920 ..	2	541	175	12	—	9	—	78	817	4.4	151	64	51	—	140	74	—	—	—	—
1921 ...	—	591	152	8	—	7	—	87	845	4.6	160	79	35	—	103	3	—	—	1	7

First Year Notification 1878. Isolation Hospital Established 1884.  
Borough Extended 1899.

## ENTERIC FEVER IN BOLTON, 1881-1921.

Year.	Cases.	Case-rate per 1,000 of Population.	Deaths.	Death-rate per 1,000 of Population.	Death-rate per cent. of Cases.
Av. 1881-1890 ...	103	.92	22	.19	22.3
Av. 1891-1895 ...	153	1.29	31	.26	20.4
Av. 1896-1900 ...	209	1.51	42	.25	20.1
Av. 1901-1905 ...	182	1.06	36	.21	20.1
Av. 1906-1910 ...	146	.82	29	.16	19.9
Av. 1911-1915 ...	57	.38	16	.08	28.1
1916 ...	39	.23	9	.05	23.0
1917 ...	24	.14	7	.04	29.1
1918 ...	24	.14	5	.03	20.8
1919 ...	9	.05	5	.02	55.5
1920 ...	12	.06	6	.03	50.0
1921 ...	8	.04	3	.01	37.5

### **Phthisis (Pulmonary Tuberculosis).**

161 deaths were registered from this disease, including those Bolton residents who died in institutions outside the Borough. The death-rate is '88 per 1000 inhabitants, which is next to the lowest recorded; the lowest being '83 in 1913 and 1920.

The age and sex distribution are shewn below :—

Sex.	Total	Ages.							65 and upwards
		Under 5	5-15	15-25	25-35	35-45	45-55	55-65	
Males	79	2	2	11	12	17	21	11	3
Females	82	4	4	23	15	19	11	3	3
Total	161	6	6	34	27	36	32	14	6

The occupations of those who died were as follows :—

Weaving	...	...	...	...	8
Spinning	...	...	...	...	10
Other Cotton Operatives	...	...	...	...	13
Bleaching and Printing	...	...	...	...	4
Metals, Machines and Implements	...	...	...	...	7
Coal Mining	...	...	...	...	9
Building	...	...	...	...	3
Conveyance of men and goods	...	...	...	...	4
General Labourers	...	...	...	...	19
Food, Drink and Tobacco	...	...	...	...	1
Dress, etc.	...	...	...	...	2
Clerks	...	...	...	...	2
Household Work	...	...	...	...	33
School Children	...	...	...	...	3
Miscellaneous occupations	...	...	...	...	18
No occupation or occupation unknown	...	...	...	...	25

161

DEATHS FROM PULMONARY TUBERCULOSIS IN BOLTON  
IN PREVIOUS YEARS.

Year.	Residents in Public Institutions out of Borough.			Public Institutions in Borough.		Private Houses.	Total	Death-Rate.
	Townleys Hospital & Fishpool Workhouse	Lunatic Asylums	Others.	Residents.	Non-Residents.			
Av. 1901-05 ...	31	10.8	4	1.2	2	194	237	1.38
Av. 1906-10 ...	42	8.4	2	1.2	...	151	203	1.13
1911 ...	39	6	2	...	...	140	187	1.03
1912 ...	37	9	3	...	...	133	182	.99
1913 ...	37	6	2	...	...	109	154	.83
1914 ...	32	5	3	12	...	115	167	.90
1915 ...	47	5	4	9	3	114	179	1.03
1916 ...	31	15	2	8	1	125	181	1.07
1917 ...	27	25	4	4	1	129	189	1.15
1918 ...	29	30	3	6	1	130	198	1.23
1919 ...	19	24	7	8	...	115	173	.97
1920 ...	41	11	3	7	1	92	154	.83
1921 ...	32	8	3	11	...	107	161	.88

### **Notification of Tuberculosis.**

During 1921 the number of persons who died of pulmonary tuberculosis in Bolton was 161. Of these, 64 or 39%, had not been notified during life.

During the same period there died of non-pulmonary tuberculosis 37 persons, of whom, 23 or 62%, had not been notified during life.

Of the total deaths from tuberculosis (198), 87 or 43% were not notified as suffering from the disease before death.

I am satisfied that a certain number of these unnotified cases are to be accounted for by the fact that, when the cause of death has been obscure, a diagnosis of tuberculosis is made after death. This however, leaves the majority unaccounted for and I have addressed to all medical practitioners in the area of the County Borough of Bolton, a letter drawing their attention to the obligation imposed upon them of notifying all cases of tuberculosis.

### **Tuberculosis.**

#### NOTIFICATIONS.

#### PULMONARY TUBERCULOSIS.

Ages.	0 to 1	1 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 and upw'ds
Males ...	1	1	3	.	6	8	11	17	21	15	2
Females ...	1	1	3	4	9	6	25	16	5	5	...

Males ... 85

Females ... 75

#### NON-PULMONARY TUBERCULOSIS.

Ages.	0 to 1	1 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 and upw'ds
Males ...	1	8	12	8	3	2	2	2	...	1	1
Females ...	2	5	11	4	5	6	2	2	1	1	...

Males ... 40

Females ... 39

## ADMISSIONS TO, AND DISCHARGES FROM INSTITUTIONS.

Institution.	Admissions.				Discharges.
Meathop ... ..	45	...	...	...	50
Wilkinson ... ..	38	...	...	...	41
Borough Hospital ...	69	...	...	...	72
Townleys Hospital ...	11	...	...	...	10
Birkdale Hospital ...	3	...	...	...	3
Heswall ... ..	3	...	...	...	5
Infirmery ... ..	18	...	...	...	8
Manchester & Salford Hospital for Skin Diseases	2	...	...	...	2
Manchester Royal Infirmery	1	...	...	...	1
David Lewis Northern Hospital ... ..	1	...	...	...	1

## TUBERCULOSIS DISPENSARY.

Total Attendances—Insured	...	...	...	...	1487
Uninsured	...	...	...	..	1015
					<hr/> 2502

## CONSULTATIONS.

Total number sent for consultation—Insured	...	..	238
Uninsured...	...	...	116
			<hr/> 354

## Findings at consultations—

Number found to have pulmonary tuberculosis	...	133
Number found to have non-pulmonary tuberculosis	...	23
Number in whom pulmonary tuberculosis was suspected but not definitely diagnosed	...	68
Number in whom no evidence of tuberculosis was found	...	130

## TUBERCULIN DISPENSARY.

Number of cases treated	...	...	...	...	51
Number of attendances	...	...	...	...	1266

Only cases of surgical tuberculosis are treated with tuberculin. Excellent results have been obtained in many cases. No treatment of symptoms with drugs is given at the Tuberculosis Dispensary. Only special forms of treatment, such as tuberculin, colloid calcium etc., are administered.

## EX-SERVICEMEN.

Number of ex-servicemen who have attended the Tuberculosis Dispensary ... ..	159
Total attendances for ex-servicemen ... ..	917
Number of ex-servicemen referred by Pensions Board for opinion as to tuberculosis ... ..	91
Number found to be suffering from Phthisis ... ..	35
Number of those in whom no evidence of Phthisis was found ... ..	50
Number of doubtful cases kept under observation ... ..	6

**Treatment of Tuberculosis.**

APPLICATIONS.			TREATMENT PROVIDED.		
Insured	...	219	Residential	...	187
Uninsured	...	51	Domiciliary	...	44
<hr/>					
Total	...	270	Dispensary	...	6
Pul. Tuberculosis	...	231	Cancelled	...	10
Non-pul.	..	35	Declined	...	13
No Evidence		4	Waiting List	...	10

## ACCOMMODATION PROVIDED BY LOCAL AUTHORITY WITH NUMBER OF PERSONS ADMITTED FOR TREATMENT DURING THE YEAR 1921.

INSTITUTION.	Beds.	Treated.			Under Treatment 31st Dec. 1921.
		Total.	Ins.	Unins.	
Meathop Sanatorium ... ..	16	45	42	3	16
*Wilkinson " ... ..	12	38	37	1	11
Borough Hospital ... ..	24	69	52	17	22
*Townleys Hospital ... ..	3	11	10	1	1
*Birkdale Hospital ... ..	2	3	3	...	1
*Heswall " ... ..	3	3	...	3	3
*Infirmary ... ..	12	18	6	12	10
*Manchester and Salford Hospital for skin diseases ... ..	..	2	2	...	...
*Manchester Royal Infirmary ... ..	...	1	...	1	...
*David Lewis Northern Hospital ... ..	...	1	...	1	...
Dispensary ... ..	...	52	17	35	29
Domiciliary ... ..	...	44	44	...	60

\* Paid for per user.

## ASSISTANCE GIVEN TO NECESSITOUS TUBERCULOUS PATIENTS:—

1. Total number of patients assisted ... ..	93
2. Average time receiving assistance... ..	2½ months.
3. Amount of milk given ... ..	7,299 pts.
4. No of eggs given ... ..	275
5. Malt and Oil given ... ..	103 lbs.

### Venereal Diseases.

Clinics are held at the Treatment Centre established in the Public Health Offices at the following times :

Monday	...	7-0 p.m.	Males.
Tuesday	...	7-0 p.m.	
Wednesday	...	7-0 p.m.	
Thursday	...	7-0 p.m.	Females.
Saturday	...	11-0 a.m.	

Patients who are unable to attend the evening clinics can receive treatment during the day by arrangement.

Irrigation of cases of gonorrhœa is carried out at 10.0 a.m. on Monday, Wednesday and Friday for males, and on Tuesday at 10.0 a.m. and Thursday at 2.30 p.m. for females.

Pathological specimens are examined under the direction of Prof. Dean at the Pathological Dept. of the University of Manchester.

Salvarsan, or its substitutes, is supplied free of charge to medical practitioners on the conditions laid down by the Ministry of Health, and pathological specimens submitted by private practitioners in outfits obtained from the Public Health Department are examined free of cost to the practitioner.

12 Medical practitioners were supplied with 290 doses of Salvarsan substitutes for patients under their care. 105 tests were made for private practitioners for the Wassermann reaction and 6 smears examined for gonorrhœa.

The following table shews the number of Bolton patients who were dealt with at Treatment Centres in other towns.

	Manchester & Salford Hosp. for Skin Diseases.	St. Luke's Hospital Manchester.	Royal Infirmary Manchester.	Ancoats Hospital.	St. Mary's Hospitals Manchester	Dispens- ary Bury.
No. of Persons.	5	3	8	2	1	1
Attendances.	71	14	116	2	1	3
Doses of Salvarsan substitutes given.	2	...	1	...	...	...
Tests-Wassermann.	6	1	4	...	1	...
Gonorrhœa	...	...	9	2	...	...
Spirochetes	1	..	...	...	...	...

The tables on pages 26 and 27 show the work carried out at the Bolton Treatment Centre.

RETURN RELATING TO ALL PERSONS WHO WERE TREATED AT THE  
TREATMENT CENTRE AT BOLTON PUBLIC HEALTH OFFICES  
DURING THE YEAR ENDED THE 31ST DECEMBER, 1921.

	Syphilis.		Soft Chancres		Gonorr- hoea.		Conditions other than Venereal.		TOTAL.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1. §Number of persons who, on the 1st January, 1921, were under treatment or observation for :	320	204	7	...	296	29	10	1	633	234
2. Number dealt with during the year in the out-patient Clinic for the first time and found to be suffering from :										
Syphilis only ...	143	84	...	...	...	...	...	...	143	84
Soft chancre only ...	...	...	7	...	...	...	...	...	7	...
Gonorrhoea only ...	...	...	...	...	192	31	...	...	192	31
§Syphilis and gonorrhoea ...	11	3	...	...	11	3	...	...	22	6
Conditions other than venereal ...	...	...	...	...	...	...	127	58	127	58
TOTAL—Item 2 ...	154	87	7	...	203	34	127	58	491	179
TOTAL—Items 1 and 2...	474	291	14	...	499	63	137	59	1124	413
3. §Number of persons who ceased to attend the out-patient Clinic										
(a) before completing the first course of treatment for ...	54	20	1	...	95	..	...	...	150	20
(b) after one or more courses but before completion of treatment for ...	25	17	...	...	...	...	...	...	25	17
(c) after completion of treatment but before final tests as to cure of ...	41	44	3	...	37	1	...	...	81	45
4. Number of persons transferred to other Treatment Centres after treatment for ...	7	5	2	...	9	1	...	...	18	6
5. §Number of persons discharged from the out-patient Clinic after completion of treatment and observation for ...	10	12	1	...	35	3	116	53	162	68
6. §Number of persons who on the 1st January, 1922, were under treatment or observation for..	337	193	7	...	323	58	21	6	688	257
TOTAL—Items 3, 4, 5, and 6	474	291	14	...	499	63	137	59	1124	413
7. Total attendances of all persons at the out-patient Clinic who were suffering from :—	3308	1936	89	...	3360	737	285	128	7042	2801
8. Aggregate number of "In-patient days" of treatment given to persons who were suffering from :—	104	36	...	...	...	...	...	...	104	36
9. Examinations of Pathological material :—										
	For Detection of				For					
	Spiro- chetes.		Gono- cocci.		Other Organ- isms.		Wasser- mann Reaction			
(a) Specimens which were examined at, and by the Medical Officer of, the Treatment Centre ...	...		80		...		...			
(b) Specimens from persons attending at the Treatment Centre which were sent for examination to an approved laboratory ...	...		4		...		754			

§ The number of persons suffering from two or more venereal diseases is entered under the heading of each disease in the vertical column, and accounted for under each disease throughout the Return.

STATEMENT SHOWING THE SERVICES RENDERED AT THE TREATMENT CENTRE, BOLTON PUBLIC HEALTH OFFICES DURING THE YEAR, CLASSIFIED ACCORDING TO THE AREAS IN WHICH THE PATIENTS RESIDED.

Name of County or County Borough.	Bolton C.B.	Lancs. C.C.	Bury C.B.	Blackb'n C.B.	Wa'in'tn C.B.	Wigan C.B.	TOTAL
A. Number of persons from each area dealt with during the year at or in connection with the out-patient Clinic <i>for the first time</i> and found to be suffering from:—							
† Syphilis ... ..	153	85	2	...	1	...	241
† Soft chancre ... ..	6	1	...	...	...	...	7
† Gonorrhœa ... ..	167	67	1	1	...	1	237
Conditions other than Venereal	131	53	1	...	...	...	185
TOTAL ... ..	457	206	4	1	1	1	670
B. Total number of attendances at the out-patient Clinic of all patients residing in each area ... ..	6363	3321	136	14	8	1	9843
C. Aggregate number of "In-patient days" of all patients residing in each area ... ..	88	52	...	...	...	...	140
D. Number of doses of Salvarsan sub-stitutes given in the:—							
1. Out-patient Clinic	1810	1231	46	...	3	...	3090
2. In-patient Dept.	6	...	...	...	...	...	6
to patients residing in each area.							
E. Give the names of Salvarsan substitutes used in the treatment of syphilis and the usual initial and final doses.	Novarsenobillon and occasionally Neo-Salvarsan. For Males.—.45 NAB. (initial dose). .6 NAB. (final dose). For Females.—.30 NAB. (initial dose). .45 NAB. (final dose).						
F. State the amount and kind of treatment usually administered to a case of Syphilis of each of the types usually dealt with at the Treatment Centre.	For all sores, primary etc., local treatment is given: Lotio Nigra, Pulv. Cal. and Zno, etc. For the constitutional invasion we use NAB. (for specially resistant cases Neosalvarsan of Meister Lucius Bruning, Frankfort. 10 doses usually given; Men .45 .45, .45, .6, .6, .6, .6, .6, .6, .6. Women .3, .3, .3, .45, .45, .45, .45, .45, .45, .45, individual idiosyncracies considered in every case. Mercury is given throughout the course as grey powder given by mouth. All NAB. and Neo-salvarsan is given intravenously.						
G. State the nature of tests applied in deciding as to discharge of patients referred to in Item 5 on previous page.	In the case of Syphilis, patients have not been discharged until at least 3 blood tests at 3 to 6 monthly intervals without treatment have proved negative. In the case of Gonorrhœa, patients are not discharged until they have been free for 6 weeks from discharge and threads in the urine. If considered desirable prostatic massage is done, and smear examined.						

† If a person has been treated for both syphilis and gonorrhœa, he is included under both diseases, and similarly for other combinations of venereal diseases.

### **Hospital Isolation.**

#### Admissions and Deaths, 1921.

	Admissions.	Deaths in Hospital
Total ... ..	459	27
Scarlet Fever ... ..	299	4
Diphtheria ... ..	56	11
Enteric Fever... ..	7	...
Pulmonary Tuberculosis ... ..	77	10
Other Diseases ... ..	20	2

**SECTION III.**

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1. **Maternity and Child Welfare.**
2. **Haslam Maternity Home and  
Infant Hospital.**
3. **Control of Midwives.**

REPORT OF THE

COMMISSIONERS OF THE

DEPARTMENT OF

THE STATE OF

NEW YORK

FOR THE YEAR

ENDING

DECEMBER 31,

1900

SECTION II

1. Maternity and Child Welfare.
2. Hospital Maternity Home and Infant Hospital.
3. Control of Abortion.

## **Maternity and Child Welfare.**

### 1. BIRTHS:—

Registered	(1) Legitimate	3639,	(2) Illegitimate	192,	Total	3831
Notified	(1) Live Births	3801,	(2) Stillbirths	180,	Total	3981
	(1) By Midwives	3246,	(2) By Parents & Doctors	576,		
	(3) By Registrars	159.				

### 2. DEATHS OF INFANTS UNDER 1 YEAR OF AGE:—

Number	(1) Legitimate	354,	(2) Illegitimate	16,	Total	370
Infant	Mortality	(1) Legitimate	97,	(2) Illegitimate	83,	Total 96

### 3. VISITS BY HEALTH VISITORS.

Primary birth enquiries	...	...	...	...	3747
Visits to Children, 1-5 years	...	...	...	...	2302
Primary visits to expectant mothers	...	...	...	...	518
Revisits to infants under 1 year	...	...	...	...	11129
Revisits to children, 1-5 years	...	...	...	...	2003
Revisits to expectant mothers	...	...	...	...	1203
Visits to Puerperal Fever Cases	...	...	...	...	7
Visits to Ophthalmia Cases	...	...	...	...	35
Death enquiries made	...	...	...	...	324
Visits to midwives' houses	...	...	...	...	312
Total visits	...	...	...	...	21580

### 4. ASSISTANCE GIVEN TO NECESSITOUS, EXPECTANT AND NURSING MOTHERS, AND TO CHILDREN UNDER 5 YEARS OF AGE.

No. of Persons.	Assistance Given.
993	New Milk.
183	Dried Milk.
4	Nestlé's Milk.
28	Malt and Oil and Virol.
8	Food Tickets.
15	Home Helps on 147 days.

## 5. AMOUNT OF FOOD DISTRIBUTED.

	Amount.
New Milk ... ..	28,563 qts.
Dried Milk ... ..	1,701 lbs.
Nestlé's Milk ... ..	38 tins.
Malt and Oil ... ..	150 lbs.
Virol ... ..	252 lbs.
Food Tickets ... ..	10 Tickets.

## 6. METHOD OF FEEDING.

	Living infants visited.	Infants who died under 1 year.
1. Breast fed only ... ..	2,740	85
2. Breast fed partly ... ..	362	56
3. Artificially fed ... ..	465	185

## 7. OTHER CONDITIONS

The following conditions were found amongst newly born children visited by the Health Visitors.

1. Healthy ... ..	3,126
2. Delicate ... ..	305
3. Premature ... ..	136

## 8. OTHER INFORMATION.

Nuisances found and referred to M.O.H. ...	67
Cases referred to N.S.P.C.C. ... ..	9
Leaflets distributed ... ..	3567
Houses found to be clean... ..	3336
Houses found to be dirty ... ..	411
No. of mothers returning to work within three months of birth of child ... ..	153

## 9. SCHOOL FOR MOTHERS AND INFANT CLINICS.

For thirteen years now the Bolton School for Mothers has conducted centres for Infant welfare, and for the last five years the Public Health Authority has co-operated by supplying their centres with medical officers and such equipment as is required for the

treatment of minor, but urgent, ailments. The co-operation between the two bodies has been most cordial and successful. The work done by the voluntary helpers of the School for Mothers has been invaluable, and this organisation has also in its service a whole time Nurse. During 1921 she paid 1627 visits and her work is so organised as not to overlap the work of the Health Authority's Visitors. The Public Health Authority values very highly the co-operation of the School for Mothers.

#### CENTRES OF SCHOOL FOR MOTHERS AND INFANT CLINICS.

Address	Day	Average Attendance per Session.	
		Expectant Mothers	Children
The Friends' School Room, Tipping Street ... ..	Monday	2	49
St. Matthew's Mission Room, James' Terrace ... ..	Monday	1	24
Halliwell Road Free Church ...	Tuesday	3	61
Victoria Wesleyan School, Grecian Crescent ... ..	Tuesday	2	37
Girls' Club, Kensington Street ...	Wednesday	3	75
*Unity School, Deane Road ... ..	Thursday	1	59
Daubhill Congregational School ...	Thursday	1	48
Mawdsley St. Congregational School	Friday	8	...

\* On the 19th January, 1922, the Derby Street Council School Infant Clinic was transferred to the Unity School, Deane Road.

The Sessions are held weekly at 3-0 o'clock in the afternoon.

A medical practitioner and a Health Visitor are in attendance at each meeting.

In addition to the above there is a Clinic held weekly at S.S. Peter and Paul's School and one at St. Mary's School. These two are under the control of the Catholic Women's League, and are attended by medical practitioners.

## **10. Bolton Day Nursery**

This Institution is now in its fifth year. The management is entirely in the hands of a voluntary organisation and the co-operation of the Bolton Corporation consists of an annual contribution of £300.

During the year April 1st, 1921 to March 31st, 1922, the number of attendances made by children at the Nursery was 5007. Of these attendances, 4509 were of children under three years of age, and 498 of children over three years.

A charge of 1/- per day is made for one child only, for additional children of the same family, 11d. per day and 6d. for Saturdays.

The Nursery has undoubtedly been a very great comfort to many mothers who were not in the happy position of being able to devote all their time to the care of the home.

## **Haslam Maternity Home.**

The Haslam Maternity Home is very greatly appreciated and is proving a great boon to many Bolton mothers.

The total number of beds available for maternity cases (including labour and isolation beds) is 20.

The fees charged to patients vary from nothing to £4 4s. od. per week. No patient has been refused because of inability to pay a fee.

The only cases not admitted to the Home are:

1. Persons suffering from infectious diseases.
2. Persons known to be leading an immoral life.
3. Persons with no home to go to after confinement, or who are likely to need prolonged hospital treatment after confinement. Such cases are advised to go to Townley's Hospital where they receive every care and attention.

Patients can arrange to be attended by any doctor of their own choosing. If they have made no such arrangement and if medical aid is required, a medical man is immediately summoned from a rota of medical men who have signified their willingness to attend such cases at the fee allowed by the Ministry of Health. If the patient is in a position to pay this fee, the patient is asked to do so; otherwise, the fee is paid by the Local Authority.

## HASLAM MATERNITY HOME, BOLTON.

## STATISTICS, 1921.

1.	Total number of cases admitted	...	...	...	...	154
2	Average duration of stay in days	...	...	...	...	17
3.	No. of cases delivered by :—					
	a. Midwives	...	...	...	...	102
	b. Doctors	...	...	...	...	48

NOTE.—Of those admitted during 1921, two were temporarily discharged and the births occurred at home, one case was transferred to Manchester for Cæsarean section and one case was delivered in January, 1922.

4.	Number of cases in which medical assistance was sought by midwife with reasons for requiring assistance	...	...	...	...	36
	a. Antenatal	...	...	...	...	4
	Albumen in urine	...	...	...	3	
	Suspected uterine tumour	...	...	1		
	b. During Labour	...	...	...	...	9
	Delayed vertex...	...	...	...	6	
	Limb presentation	...	...	...	1	
	Prolapse of cervix	...	...	...	1	
	Placenta Prævia	...	...	...	1	
	c. After labour	...	...	...	...	17
	Ruptured perineum	...	...	...	16	
	Flabby uterus	...	...	...	1	
	d. For infant	...	...	...	...	6
	Premature twins	...	...	...	1	
	Feebleness	...	...	...	1	
	Cephalhæmatoma	...	...	...	1	
	Advice on feeding	...	...	...	1	
	Double hare lip and cleft palate	...	...	...	1	
	Circumcision	...	...	...	1	
5.	No. of cases notified as puerperal sepsis with result of treatment in each case	...	...	...	...	Nil

6.	No. of cases notified as ophthalmia neonatorum with result of treatment in each case...	...	...	...	...	Nil
7.	No. of cases of "Inflammation of eyes" however slight					Nil
8.	No. of infants not entirely breast fed whilst in the institution with reasons why not breast fed	...	...	...	...	21
Doctors' Cases.				Midwives' Cases.		
	Mothers' milk insufficient...	5	No breast milk	...	...	2
	Mothers' anæmic ...	3	Mothers' health indifferent			2
	Intestinal trouble of infant	1	Feebleness of infants	...		2
	Albuminuria ...	1	Mothers' milk poor	...		1
	Mastitis ...	1	Mother anæmic	...		1
			Infant jaundiced	...		1
			Facial paralysis of infant	...		1
-----				-----		
		11				10
9.	No. of Maternal deaths with causes	...	...	...		Nil
10.	No. of foetal deaths (Stillborn or within 10 days of birth) and their causes and the results of the post mortem examinations if obtainable	...	...	...	...	10
	a. Stillbirths	...	...	...	...	7
	Macerated and premature	...	...	...	4	
	Breach presentations	...	...	...	2	
	Placenta prævia	...	...	...	1	
	b. Deaths within 10 days	...	...	...	...	3
	Feebleness	...	...	...	2	
	Heart Disease	...	...	...	1	
No post mortem examinations were made.						

### **Control of Midwives.**

74 notifications of their intention to practice within the Borough were received from Midwives during the year.

	Trained.	Untrained.	Total.
No. of Midwives ...	56	18	74
No. of cases attended ...	2563	600	3163
Av. number of cases per midwife	45	33	42
No of calls for medical aid ...	269	60	329
Per cent. of cases in which medical aid was sought	10.4%	10.0%	10.4%

Number at the beginning of the year	...	...	...	...	58
Number who ceased to practice in Bolton	...	...	...	...	4
Number who notified their intention to practise in Bolton for the first time	...	...	...	...	16
Number practising at the end of the year	...	...	...	...	0

The following 344 notifications were received from the midwives in accordance with the regulations of the Central Midwives Board:—

Medical Assistance	...	...	...	...	...	329
--------------------	-----	-----	-----	-----	-----	-----

CONDITIONS FOR WHICH DOCTORS WERE SUMMONED IN AN  
EMERGENCY BY MIDWIVES.

PREGNANCY.

Deformity or stunted growth	...	...	...	...	14
Ante-partum hæmorrhage	...	...	...	...	6
Abortion or threatened abortion	...	...	...	...	6
Dangerous varicose veins	...	...	...	...	2
Alarming Prostration	...	...	...	...	1
					— 29

LABOUR.

Delayed, complicated or obstructed labour	...	...	...	...	94
Ruptured perineum, &c.	...	...	...	...	65
Malpresentation	...	...	...	...	25
Retained placenta	...	...	...	...	17
Fits or convulsions	...	...	...	...	8
Placenta prævia	...	...	...	...	4
Excessive bleeding	...	...	...	...	2
Threatened heart failure	...	...	...	...	2
Mania	...	...	...	...	1
Sores of the genitals	...	...	...	...	1
					— 219

PUERPERIUM.

Rise of temperature or quickening of pulse	...	...	...	...	11
Post-partum hæmorrhage	...	...	...	...	2
Abdominal swellings and tenderness	...	...	...	...	1
White leg	...	...	...	...	1
Collapse	...	...	...	...	1
Prolapse of rectum	...	...	...	...	1
					— 17

## INFANT.

Feebleness...	...	...	...	...	...	20
Inflammation of eyes	...	...	...	...	...	19
Malformation	...	...	...	...	...	13
Prematurity	...	...	...	...	...	11
Convulsions	...	...	...	...	...	1
						<hr/> 64
						<hr/> 329
Death of mother or child	...	...	...	...	...	3
Laying-out of dead body...	...	...	...	...	...	3
Artificial Feeding...	...	...	...	...	...	9

The midwives' houses have been inspected, and I have examined the case books, instruments, temperature and pulse records, and appliances of each midwife four times during the year.

3163 cases out of a total 3981 births were attended by the midwives.

The Local Authority neither employs nor subsidises any practising midwives.

## COST OF MEDICAL AID SENT FOR BY MIDWIVES IN 1921.

No. of calls for Medical Aid	...	...	...	...	329
No. of Doctors' Fees paid by Local Supervising Authority					130
Gross amount paid by Local Supervising Authority	...	£238.	10.	6	
No. of such Fees or part thereof recovered from patients					42
Amount recovered from patients	...	...	...	£70.	5. 6
Net amount paid by Local Supervising Authority for Medical Aid to Mothers and Infants at time of confinement	...	...	...	...	£168. 5. 0

#### **SECTION IV.**

- 1. Animals and Food Inspection.**
- 2. Sale of Food and Drugs Acts.**
- 3. Public Analyst's Report.**

SECTION IV.

1. Animals and Food Inspection.
2. Sale of Food and Drugs Act.
3. Public Analysts Report.

**Report of Chief Food Inspector and Inspectors  
under the Sale of Food and Drugs Acts.**

1.—GENERAL INSPECTIONS.

Beasts	...	...	...	...	...	1086
Calves	...	...	...	...	...	409
Sheep	...	...	...	...	...	46744
Swine	...	...	...	...	...	9983
Store Cattle	...	...	...	...	...	660
Slaughter-houses	...	...	...	...	...	1409
Railway Sidings	...	...	...	...	...	162
Markets and Fairs	...	...	...	...	...	829
Farms...	...	...	...	...	...	79
Shops	...	...	...	...	...	819

2.—CARCASSES FOUND TO BE AFFECTED WITH OR SUSPECTED OF  
DISEASE.

Diseases or Defects.	Examined.							Action Taken.			Total.
	Cows.	Bulls.	Heifers.	Bullocks.	Calves.	Sheep.	Swine.	Whole Carcases Destroyed.	Parts and Organs Destroyed.	Carcases Passed.	
Tuberculosis	763	4	25	3	...	...	1	124	672	...	796
Pneumonia	3	...	...	...	...	...	1	1	3	...	4
Pleurisy	10	...	2	...	...	...	...	...	12	...	12
Moribund	20	...	...	...	...	4	4	28	...	...	28
Hepatitis	8	...	...	...	...	...	...	...	8	...	8
Nephritis	5	...	...	...	...	...	...	...	5	...	5
Mastitis	5	...	...	...	...	...	...	...	5	...	5
Echinococcus Liver..	3	...	...	...	...	...	...	...	3	...	3
Septicæmia	1	...	...	...	...	...	...	1	...	...	1
Hyperæmia	2	...	...	...	...	...	...	1	1	...	2
Emaciation	8	...	...	...	...	...	...	8	...	...	8
Pericarditis	1	...	1	...	...	...	...	...	2	...	2
Immature	...	...	...	...	6	...	...	6	...	...	6
Fractures	9	1	...	...	...	...	...	...	10	...	10
Traumatism	7	...	1	1	2	...	1	4	7	1	12
Parturition	7	...	...	...	...	...	...	...	4	3	7
Epilepsy	16	...	1	...	...	...	...	1	8	8	17
Abscess	4	...	1	...	...	...	...	1	4	...	5
Metritis	1	...	...	...	...	...	...	...	1	...	1
Congestion of Lungs...	1	...	...	...	...	...	...	...	1	...	1
Diarrhœa	2	...	...	...	...	...	...	...	1	1	2
Total	876	5	31	4	8	4	7	175	747	13	935

## 3.—FOOD DESTROYED.

	No.	Tons.	Cwts.	Qrs.	lbs.
Beef ... ..	—	5	2	—	2
Mutton... ..	—	—	—	2	4
Pork and Bacon	—	—	4	1	12
Fish ... ..	—	2	18	3	—
Rabbits ... ..	1313	—	—	—	—
Ox Tongues ...	—	—	1	3	12
Eggs ... ..	1170	—	—	—	—
Fruit ... ..	—	—	2	—	2
Vegetables ...	—	6	—	—	—
Corned Beef ...	—	—	9	—	13
Tin Food ... ..	—	—	3	2	10
Offal ... ..	—	—	6	—	16

## 4.—FARM VISITATION.

Farm Visits ... ..	...	...	...	...	79
Cows Examined ...	...	...	...	...	1436
Abnormal Udders ...	...	...	...	...	14
Milk examined for tubercle bacilli ...	...	...	...	...	9
Tubercle bacilli found	...	...	...	...	3
Tubercle bacilli negative	...	...	...	...	6
Number of Farms not Dairying	...	...	...	...	11

## 5.—PARASITIC MANGE.

15 cases of suspected mange have been notified. Of these, 13 were found to be affected, and 2 were found to be free from the disease. 3 of the affected animals were destroyed.

**6.—Rats & Mice (Destruction) Act, 1919.**

Under the above Act frequent visits have been made to premises where these destructive rodents were found; advice and instructions have been given with satisfactory results. Previous to the National Rat Week (31st Oct. to 5th Nov. 1921), 250 circulars were issued to various tradespeople, corn merchants, railway depots, tripe, tallow and oil dealers, and to all farmers in our district, pointing out the urgent necessity for continuous effort in order to exterminate the pest.

**7.—The American Gooseberry Mildew Order, 1912.**

Constant attention to our markets and fruiterers' premises has been paid but no disease in the fruit was detected.

### Sale of Food and Drugs Acts.

#### ADMINISTRATIVE RETURN OF ACTION TAKEN WITH REGARD TO SAMPLES NOT REPORTED TO BE GENUINE.

Article.	Nature of Adulteration.				Result.
Milk ... ..	1.8 %	added water	...	...	Warning letter sent
Milk ... ..	2.7 %	" "	...	...	No action taken
Milk ... ..	5.9 %	" "	...	...	Informal sample
Milk ... ..	1.3 %	deficient in fat	...	...	Appeal to cow
Milk ... ..	1.3 %	" "	...	...	No action taken
Milk ... ..	5.0 %	" "	...	...	Warning letter sent
Milk ... ..	5.0 %	" "	...	...	Warning letter sent
Milk ... ..	5.0 %	" "	...	...	Warning letter sent
Milk ... ..	5.0 %	" "	...	...	Warning letter sent
Milk ... ..	5.0 %	" "	...	...	No action taken
Milk ... ..	5.3 %	" "	...	...	No action taken
Milk ... ..	7.7 %	" "	...	...	No action taken
Milk ... ..	7.7 %	" "	...	...	No action taken. Explan- ation given by vendor
Milk ... ..	9.7 %	" "	...	...	No action taken
Milk ... ..	10.0 %	" "	...	...	No action taken
Milk ... ..	10.0 %	" "	...	...	Appeal to cow
Milk ... ..	11.7 %	" "	...	...	Case dismissed
Milk ... ..	23.3 %	" "	...	...	Case dismissed
Milk ... ..	5.0 %	" " and 8.8 %	...	...	
		added water.	...	...	Informal sample
Buttermilk ...	1.5 %	excess of water	...	...	No action taken
Buttermilk ...	27.76 %	added water	...	...	No action taken
Butter... ..	18.14 %	water	...	...	Warning letter sent
Ham Paste ...	.43 %	or 30.1 grains of boric acid	...	...	
		per 1lb of sample	...	...	Warning letter sent
Potted Meat }	99.65 %	meat products	...	...	Warning letter sent
	.35 %	boron compounds	...	...	
Nut Oil ... ..		contained 85.0 % cotton seed	...	...	
		oil	...	...	Informal sample
Lemon Squash		contained 3 grains per pint	...	...	
		salicylic acid	...	...	No action taken
	4.53 %	moisture	...	...	No action taken.
	20.50 %	fat and theobromine	...	...	Contents declared on lab-
	16.18 %	albuminoids	...	...	el on packets.
Cocoa ... ..	10.00 %	cane sugar	...	...	
	30.00 %	arrowroot...	...	...	
	14.43 %	carbohydrate and fibre	...	...	
	4.36 %	mineral matter	...	...	

#### OFFENCES OTHER THAN ADULTERATION.

Nil.

Total Fines and Costs ... Nil.

**Annual Report of the Public Analyst and Bacteriologist for the year ended 31st December, 1921.**

SUMMARY.

Food and Drugs ... ..	437
Bacteriological Examinations for the M.O.H. ...	998
Bacteriological Examinations for the Vety. Surgeon	9
Miscellaneous Analyses ... ..	75
Water Analyses ... ..	489
Gas Examinations ... ..	288
	<hr/>
	2296

DETAILS OF FOOD AND DRUGS.

	Total.	Genuine.	Adulterated.	Per cent. Adulterated
Milk ... ..	201	180	21	10'4
Butter ... ..	49	48	1	2'0
Cheese ... ..	4	4	...	...
Margarine ... ..	25	25	...	...
Tea ... ..	8	8	...	...
Coffee ... ..	13	13	...	...
Miscellaneous...	136	131	5	3'7
	<hr/>	<hr/>	<hr/>	<hr/>
TOTAL ... ..	436	409	27	6'18

BACTERIOLOGICAL EXAMINATIONS.

FOR M.O.H.

	Total.	Positive.	Negative.	Doubtful.
Tuberculosis ...	837	197	638	2
Diphtheria ...	143	27	113	3
Enteric Fever ...	18	4	14	...

FOR THE VETERINARY SURGEON.

	Total.	Positive.	Negative.	Doubtful
Milk for Tuberculosis	9	1	8	...

**Public Health ( Milk and Cream) Regulations,**  
**1912 and 1917.**

(1) MILK AND CREAM—NOT SOLD AS PRESERVED CREAM.

	No of Samples examined for preservative.	Number in which a preservative was reported present.
Milk	202	0
Cream	0	0

(2) CREAM SOLD AS PRESERVED CREAM.

Correct statements made	...	...	0
Incorrect statements made	...	...	0

Sanitary Work

**SECTION V.**

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**Sanitary Work**

Sanitary Work

SECTION V.

Sanitary Work

SECTION V.

Sanitary Work

### Abstract of Sanitary Work.

#### VISITS MADE,

Houses...	...	...	...	...	...	...	...	16440
Newly-infected houses	...	...	...	...	...	...	...	660
Schools...	...	...	...	...	...	...	...	92
Common-lodging-houses	...	...	...	...	...	...	...	830
Houses-let-in-lodgings	...	...	...	...	...	...	...	797
Factories	...	...	...	...	...	...	...	451
Workshops	...	...	...	...	...	...	...	502
Workplaces	...	...	...	...	...	...	...	292
Bakehouses	...	...	...	...	...	...	...	474
Offensive Trades	...	...	...	...	...	...	...	152
Dairies, cowsheds, and milk-shops	...	...	...	...	...	...	...	489
Conversion of closets...	...	...	...	...	...	...	...	468
Drains	...	...	...	...	...	...	...	1088
Miscellaneous	...	...	...	...	...	...	...	1392

#### ABSTRACT OF WORK DONE DURING 1921.

Complaints from Public	...	...	...	...	...	...	...	363
Complaints from Factory Inspector	...	...	...	...	...	...	...	57
Reports to Factory Inspector on action taken	...	...	...	...	...	...	...	37
Nuisances Reported	...	...	...	...	...	...	...	4049
Letters Written or Verbal Notices	...	...	...	...	...	...	...	730
Informal Notices Issued	...	...	...	...	...	...	...	915
Legal Notices Issued	...	...	...	...	...	...	...	859
Smoke Observations	...	...	...	...	...	...	...	498
Smoke Nuisances	...	...	...	...	...	...	...	27
Smoke Prosecutions	...	...	...	...	...	...	...	3
Houses Fumigated	...	...	...	...	...	...	...	801
Articles Disinfected	...	...	...	...	...	...	...	6175
Articles Destroyed	...	...	...	...	...	...	...	154
Houses, etc., Limewashed	...	...	...	...	...	...	...	800
House Repairs	...	...	...	...	...	...	...	1259
Overcrowding Abated	...	...	...	...	...	...	...	4
Ashpits or Pails Repaired	...	...	...	...	...	...	...	394
Privy Ashpits converted into Water Closets	...	...	...	...	...	...	...	223
Drains Reconstructed or Repaired	...	...	...	...	...	...	...	542
Yards Repaired or Flagged	...	...	...	...	...	...	...	213
Samples of Food, etc., Purchased	...	...	...	...	...	...	...	437
Samples Adulterated or other Offences	...	...	...	...	...	...	...	27
Adulteration Prosecutions	...	...	...	...	...	...	...	2

## **Housing, 1921.**

### NUMBER OF NEW HOUSES ERECTED DURING THE YEAR:—

(a) Total	...	...	...	...	...	...	...	225
(b) As part of a municipal housing scheme	...	...	...	...	...	...	...	191

### I.—UNFIT DWELLING-HOUSES.

#### INSPECTION.

(1) Total number of dwelling-houses inspected for housing defects (under Public Health or Housing Acts)	...	...	...	...	...	7207
(2) Number of dwelling-houses which were inspected and recorded under the Housing (Inspection of District) Regulations, 1910	...	...	...	...	...	1138
(3) Number of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation	...	...	...	...	...	...
(4) Number of dwelling-houses (exclusive of those referred to under the preceding sub-heading) found not to be in all respects reasonably fit for human habitation	...	...	...	...	...	1220

### 2.—REMEDY OF DEFECTS WITHOUT SERVICE OF FORMAL NOTICES.

Number of defective dwelling-houses rendered fit in consequence of informal action by the Local Authority or their officers	...	...	...	...	...	632
---	-----	-----	-----	-----	-----	-----

### III.—ACTION UNDER STATUTORY POWERS

#### A. *Proceedings under section 28 of the Housing, Town Planning, &c., Act, 1919.*

(1) Number of dwelling-houses in respect of which notices were served requiring repairs	...	...	...	...	...	80
---	-----	-----	-----	-----	-----	----

(2)	Number of dwelling-houses which were rendered fit—	
(a)	by owners ... ..	80
(b)	by Local Authority in default of owners ... ..	—
(3)	Number of dwelling-houses in respect of which Closing Orders became operative in pursuance of declarations by owners of intention to close ... ..	—

B. *Proceedings under Public Health Acts.*

(1)	Number of dwelling-houses in respect of which notices were served requiring defects to be remedied ... ..	508
(2)	Number of dwelling-houses in which defects were remedied—	
(a)	by owners ... ..	484
(b)	by Local Authority in default of owners ... ..	—

C.	<i>Proceedings under section 17 and 18 of the Housing, Town Planning, &amp;c., Act, 1909</i> ... ..	—
----	---	---

### **Closet Accommodation.**

During the year 1921 there were 119 conversions of privy-middens or pails into fresh water closets in the Old Borough and 121 in the Added Area.

From 1899-1921 inclusive, 10,398 closets have been converted at a cost to the Corporation of £20,402, and replaced by water-closets, and 315 privy middens and pails have been demolished. In new houses during the same period, 8632, water-closets have been provided.

The present number of privy-middens and pails as compared with those of 1898 are:—

District.	Privy-middens.			Pails.	
	1898	1921	...	1898	1921
Old Borough ...	12740	5409	...	6782	6256
Added Area ...	7581	4896	...	22	27
Extended Borough	20321	10305	...	6804	6283

In the Old Borough in 1898 the numbers were :

Privy-middens and Pails ...	...	...	...	...	19522
Water-closets ...	...	...	...	...	7587

At present the numbers are :

Privy-middens and Pails ...	...	...	...	...	11665
Water-closets ...	...	...	...	...	18023

Formerly in the Old Borough 75 per cent. of the closets were on the dry system and 25 per cent. on the water-carriage system ; now, 38·3 per cent. are on the dry system and 61·7 per cent. on the water-carriage system.

## CLOSET ACCOMMODATION, 1921.

	No. of Closets Converted or Demolished, 1921.				Conversions in Old Houses and Additions in New Houses, 1921.				Present Closet Accommodation, 1921.				Per Cent on	
	P.M.	Pail.	W.W.C.	F.W.C.	P.M.	Pail.	W.W.C.	F.W.C.	P.M.	Pail.	W.W.C.	F.W.C.	Dry System.	Water System.
Old Borough ...	103	19	2	4	...	...	...	131	5409	6256	10941	7032	39'3	60'7
Great Lever ...	48	...	...	...	...	...	...	172	1169	...	1112	768	38'3	61'7
Tonge ...	4	...	...	...	...	...	...	17	1224	...	786	543	47'9	52'1
Astley Bridge ...	19	...	...	...	...	...	...	23	606	7	506	1071	28'1	71'9
Smithills ...	29	...	...	...	...	...	...	30	315	4	728	599	19'3	80'7
Hulton ...	11	...	...	...	...	...	...	12	418	...	596	447	28'6	71'4
Darcy Lever-cum- Brightmet	12	...	...	...	...	...	...	2	607	...	183	193	62'0	38'0
Deane-cum Loston	1	...	...	...	...	...	...	60	364	4	213	353	39'4	70'6
Heaton ...	8	...	...	...	...	...	...	36	193	12	152	485	24'3	75'7
Extended Borough	235	19	2	4	...	...	...	483	10305	6283	15217	11541	38'3	61'7

### **Offensive Trades and Slaughterhouses.**

16 of the slaughterhouses in Bradford Ward as shewn in the following table are in one building constituting the Abattoirs belonging to the Markets Committee of the Bolton Corporation.

OFFENSIVE TRADES AND SLAUGHTERHOUSES.

Trade.	Added Area.	West.	Halliwell.	Bradford.	Derby.	East.	Church.	North.	Rumworth.	Exchange.	Total.
Tripe Boilers ...	1	...	...	3	...	...	1	...	...	...	5
Fellmongers and Tanners ...	...	1	...	1	...	...	...	...	...	...	2
Hide and Skin Depots ...	...	...	...	...	...	1	...	...	...	1	2
Gut Scraping ...	...	...	...	1	...	...	...	...	...	...	1
Blood Boiler ...	...	...	...	...	...	...	1	...	...	...	1
Tallow Melter ...	...	...	...	...	...	...	...	...	...	1	1
Soap Works ...	1	...	...	...	...	...	...	...	...	...	1
Chemical Works ...	...	...	...	...	...	1	1	...	...	...	2
Muriatic Acid Works ...	1	...	...	...	...	...	...	...	...	...	1
Tar and Ammoniated Sulphate Works... ..	1	...	...	...	...	...	...	...	...	...	1
Brick Works ...	6	...	1	...	...	...	...	...	1	...	8
Knackers' Yard ...	...	...	...	...	...	...	1	...	...	...	1
Total Offensive Trades ..	10	1	1	5	...	2	4	...	1	2	26
Slaughterhouses ...	9	4	3	20	2	2	2	1	1	5	49
Total ...	19	5	4	25	2	4	6	1	2	7	75

**SECTION VI.**

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**Miscellaneous.**

## Operative Tables and Diagrams

These tables and diagrams are intended to be used by the student in connection with the study of the various operations of the eye.

They are arranged in the following order:

### Section VI.

## Miscellaneous

**Corporation Meteorological Observatory,**  
**Queens Park, Bolton.**

THOS. MIDGLEY, F. R. MET. S.

SUMMARY FOR 1921.

The year 1921 established a good many records for the 35 years :

The year's average reading of the Barometer, 30.063", was .06" above, that of the Dew-point was 44.1° or 5 above. The Shade Maximum, 57.0° was .8° above, the Mean Temperature in the shade, 49.58° was .7° above, the Minimum on the grass was .3° above, and temperatures in the earth at depths from 6" to 48" averaged 16° above any previous records for Bolton, whilst the mean daily movement of the wind, 143 miles, was just equal to the previous lowest record of 1915. Sunshine, 1243.9 hours, was 230 hours above the average, with nine more sunny days than usual. Rainfall was 39.124" or 3.8" below the usual amount. There were 196 rainy days, or five less than usual and the actual time of rainfall was 793.7 hours. The dominant wind direction was south-westerly, with a maximum speed of 44 miles per hour on September 11th.

**Professional Nursing in the Home.**

No provision for home nursing is made directly by the Local Authority. The Bolton District Nursing Association provides home nursing for all cases with the exception of measles, scarlet fever, small-pox, and typhus fever. The services of the nurses are given free to all unable to pay; but those unable to incur the expense of a private nurse can obtain the services of the District Nurses on payment of a small fee. Suitable cases have no difficulty in obtaining the services of the District Nurses. The Association is entirely supported by voluntary contributions. During 1921 the number of cases attended by the Association's Nurses was 1,106, the total number of visits being 29,392, an average of 26½ visits per case. The average cost per visit to the Association was 1/3.

### **Hospitals Provided by the Local Authority.**

1. TUBERCULOSIS. There is a pavilion containing 24 beds, 12 for men and 12 for women, in the grounds of the Isolation Hospital.

2. FEVER. The Borough Isolation Hospital in Hulton Lane has 100 beds for the treatment of Infectious diseases.

3. MATERNITY. The Haslam Maternity Home has 20 beds. Full particulars are given in another section.

4. SMALL-POX. Under an agreement dated, 19th May, 1915, the Bury and District Joint Hospital Board has agreed to provide hospital accommodation for small-pox patients from Bolton. The small-pox hospital is situated at Heywood, nine miles from Bolton. The Joint Hospital Board provides the ambulance for removing cases from Bolton. In the event of the beds at the Heywood Hospital being full, the Joint Hospital Board has a hospital at Ainsworth, just outside the Bolton borough boundary which will be used for small-pox.

The last case admitted from Bolton to the Heywood Hospital was on the 21st April 1920.

### **Hospitals Not Provided by the Local Authority.**

BOLTON INFIRMARY.						Accommodation.
For Men	...	...	...	...	...	61 beds.
For Women	...	...	...	...	...	49 beds.
For Children	...	...	...	...	...	40 beds.
Total						150 beds.
EDMUND POTTER HOSPITAL, BOLTON.						
For Women	...	...	...	...	...	20 beds.
For Children	...	...	...	...	...	23 beds.
BLAIR CONVALESCENT HOSPITAL, BROMLEY CROSS.						
For Men	...	...	...	...	...	37 beds.

The Edmund Potter Hospital and the Blair Convalescent Hospital are voluntary organisations administered by the governing body of the Bolton Infirmary.

### **Institutional Provision for Unmarried Mothers, Illegitimate Infants and Homeless Children.**

EDENS ORPHANAGE, BOLTON. This charitable foundation provides accommodation for 24 homeless boys and 20 girls.

CHADWICK'S ORPHANAGE. This charitable foundation provides accommodation for 23 homeless girls.

THE POOR LAW INSTITUTION at Fishpool, Farnworth, just outside the Bolton borough boundary has ample accommodation for unmarried mothers, illegitimate infants and homeless children. The Poor Law Infirmary (Townleys Hospital) has a ward for paying patients which is evidence that the accommodation for poor law patients is more than sufficient.

### **Ambulance Facilities.**

(a). For infectious cases, the Local Authority has a horse ambulance. Provision has been made for the purchase of a motor ambulance in the near future.

(b). For non-infectious cases the Bolton Corporation provides two motor ambulances. These ambulances are used to convey accident cases and cases of sudden illness, etc., to hospital or to their own homes. In cases of illness, persons able to pay are required to pay a fee of 5/-. The motor ambulances were called out 1367 times in 1921 and in 511 cases the fee of 5/- was paid. The Bolton Infirmary has a motor ambulance of its own which is used to convey cases from the Infirmary to the Edmund Potter Hospital, to Blairs Hospital, or to the patient's home. The Poor Law Authority has two motor ambulances which are used for all cases dealt with under the Poor Law.

### **Laboratory Work.**

All pathological material connected with venereal diseases which was not examined locally by the Medical Officers of the Clinic was sent to the Pathological Laboratory of the Manchester University. Particulars are given in the report on the treatment of venereal diseases.

Other pathological and bacteriological examinations are made by the whole-time Analyst and Bacteriologist of the Local Authority at the Municipal Laboratories. Occasionally, specimens are sent to the Public Health Laboratory, York Place, Manchester.

The following tables show the examinations carried out:—

EXAMINATIONS MADE BY THE BOROUGH ANALYST AND  
BACTERIOLOGIST, 1921.

	Total.	Positive.	Negative.	Doubtful
Tuberculosis ... ..	837	197	638	2
Diphtheria ... ..	143	27	113	3
Enteric Fever ... ..	18	4	14	...
Milk for T.B. ... ..	10	1	9	...
Blood for Malaria ... ..	2	2	...	...
Hair for Anthrax ... ..	1	...	1	...
Disinfectants... ..	2	Rideal Walker Coefficient—5 in each case.		
Mussels ... ..	3	B. Coli	Streptococci	
1. ... ..	...	10,000	1,000 per 1 mollusc.	
2. ... ..	...	1,000	1,000	„
3. ... ..	...	1,000	1,000	„
Total Bacteriological Examinations (other than Waters)	...	1,026		

EXAMINATIONS MADE AT THE PUBLIC HEALTH LABORATORY,  
MANCHESTER, 1921.

2	...	...	...	Cerebro-spinal Fever.
* 2	...	...	...	Sputum.
1	...	...	...	Typhoid Fever.
1	...	...	...	Milk—Tuberculosis.
18	...	...	...	Milk—Bacterial Content.

\*In both these cases malignant disease of the lungs was suspected.

**Antitoxins and Vaccines Supplied to Medical  
Practitioners, 1921.**

Diphtheria Antitoxin	..	...	...	155 bulbs of 4,000 units.
				27 bulbs of 2,000 units.
Tetanus Antitoxin ...	...	...	...	3 bulbs of 1,500 units.
Influenza Vaccine ...	...	...	...	2 bulbs of 25 c.c.

**Local Acts, General Adoptive Acts, Bye-Laws and  
Regulations in Force in Bolton.**

LOCAL ACTS.

- Bolton Improvement Act, 1854.
- Bolton Improvement Act, 1865.
- Bolton Corporation Act, 1872.
- Bolton Improvement Act, 1877.
- Local Government Board's Provisional Orders Confirmation  
(Abergavenny Union &c.) Act, 1879.
- Bolton Improvement Act, 1882.
- Local Government Board's Provisional Orders Confirmation  
(No. 15) Act, 1893.
- Bolton Tramways and Improvement Act, 1897.
- Bolton Corporation Act, 1901.
- Bolton Corporation Act, 1905.

GENERAL ADOPTIVE ACTS.

- Part III.—Public Health Acts Amendment Act, 1890.  
(Adopted—6th May, 1891).
- Part IV.—Public Health Acts Amendment Act, 1890.  
(Adopted—6th July, 1910).

BYE-LAWS AND REGULATIONS.

	Date Made.
Slaughterhouses ... ..	13th Feb. 1867.
Common Lodging Houses ... ..	2nd Feb. 1898.
Houses Let in Lodgings ... ..	2nd Feb. 1898.
Dairies, Cowsheds and Milkshops ... ..	5th July, 1899.
Management etc., of High St. Baths...	4th Feb. 1903.
Means of Escape in Case of Fire ... ..	10th Sept. 1908.

Journal of the United States Fish Commission  
for the year 1882

Washington: Government Printing Office  
1883

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**SECTION VII,**

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**Appendix.**

CAUSES OF DEATH.	Total	SEX.		AGE.													
		M.	F.	0	1	2	3	4	5	10	15	20	25	30	35	40	
				to 1	to 2	to 3	to 4	to 5	to 10	to 15	to 20	to 25	to 30	to 35	to 40	to 45	
<b>General Diseases.</b>																	
Small Pox																	
Vaccinated	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Not Vaccinated	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Doubtful	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Scarlet Fever	7	1	6	...	...	...	1	...	4	1	...	...	...	...	...	...	...
Diphtheria & Membranous Croup	21	7	14	...	5	3	3	...	6	2	1	...	1	...	...	...	...
Typhus	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Enteric Fever	3	2	1	...	...	...	...	...	...	1	1	...	...	...	...	...	...
Relapsing Fever	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Erysipelas	2	1	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Septicæmia (not puerperal)	4	2	2	...	...	...	...	...	...	...	...	...	1	...	...	3	...
Pyæmia (not puerperal)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Measles	5	3	2	2	1	...	...	...	2	...	...	...	...	...	...	...	...
German Measles	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Whooping Cough	25	13	12	13	5	2	2	1	2	...	...	...	...	...	...	...	...
Chicken Pox	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mumps	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Influenza	45	16	29	4	3	...	...	...	1	1	3	1	1	1	3	6	...
Asiatic Cholera	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dysentery	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Malaria	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rabies	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Glanders, Farcy	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Anthrax Splenic Fever	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tetanus	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mycoses	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pulmonary Tuberculosis	152	77	75	1	1	1	...	...	1	4	17	15	16	10	19	15	...
Acute Miliary Tuberculosis,	9	2	7	1	1	...	1	...	...	1	1	1	1	...	...	2	...
Acute Phthisis																	
Tubercular Meningitis	11	8	3	1	...	2	2	...	3	3	...	...	...	...	...	...	...
Tabes Mesenterica	2	1	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...
Other Peritoneal and	12	4	8	3	2	1	1	...	...	1	3	...	...	...	...	1	...
Intestinal Tubercle																	
Tuberculosis of Spinal Column	2	1	1	...	...	...	...	...	...	...	1	1	...	...	...	...	...
Tuberculosis of Joints	5	2	3	...	...	...	...	...	...	...	2	...	...	...	...	1	...
Lupus	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Scrofula	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tuberculosis of other Organs	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
General Tuberculosis	3	1	2	...	...	...	...	...	1	...	...	...	...	1	...	...	...
Rickets	2	1	1	...	1	...	...	...	1	...	...	...	...	...	...	...	...
Syphilis	9	7	2	8	...	...	...	...	...	...	...	...	...	...	...	...	...
Purulent Ophthalmia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other Venereal Diseases	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cancer of the Buccal Cavity	16	15	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
"    Stomach, Liver	65	34	31	...	...	...	...	...	...	...	...	...	...	...	...	...	1
"    Peritoneum, Intes-	43	13	30	...	...	...	...	...	...	...	...	1	...	1	...	2	...
tines and Rectum																	
"    Female Genital	30	...	30	...	...	...	...	...	...	...	...	...	1	...	2	2	...
Organs																	
"    Breast	24	...	24	...	...	...	...	...	...	...	...	...	...	2	...	3	...
"    Skin	2	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" of other Organs	34	23	11	...	1	...	...	...	2	...	...	...	...	...	...	3	...
Other Tumours	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rheumatic Fever,	16	3	13	...	...	...	...	...	2	...	1	1	3	2	3	...	...
Acute Rheumatism																	
Chronic Rheumatism, Gout,	8	3	5	...	...	...	...	...	...	...	...	...	...	...	...	3	1
Osteo-arthritis																	
Diabetes	20	10	10	...	...	...	...	1	...	...	2	2	...	...	...	3	1
Exophthalmic Goitre	4	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Addison's Disease	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Leucocythæmia	4	3	1	...	...	...	...	...	...	...	...	...	2	...	1	...	...
Anæmia, Chlorosis	14	6	8	...	...	...	1	...	...	...	1	1	...	1	...	...	...
Hæmophilia, Hæmorrhagic	1	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Diathesis																	
Alcoholism, Delirium Tremens	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other General Diseases	4	1	3	...	...	...	...	...	1	...	1	...	...	...	...	...	...
Total General Diseases	608	263	345	34	21	9	11	2	24	17	34	23	26	18	32	40	...

								WARD.																
0 0 5	65 to 70	70 to 75	75 to 80	80 to 85	85 and upwards	0 to 5	5 and upwards	North	East	West	Tonge	Exchange	Bradford	Church	Great Lever	Dar Lever. c-Br'hitmet	Derby	Hulton	Deane-c- Lostock	Rumworth	Halliwell	Heaton	Smithills	A cellar
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	1	6	...	...	...	2	...	2	...	1	...	2	...	...	...	...	...	...	...
...	...	...	...	...	...	11	10	...	2	...	1	...	3	...	1	...	5	...	2	3	2	1	...	...
...	...	...	...	...	...	...	3	...	1	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...
...	1	...	...	...	...	...	2	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...
...	...	...	...	...	...	...	4	...	...	...	...	...	...	...	...	...	2	...	...	1	1	...	...	...
...	...	...	...	...	...	3	2	...	1	...	...	...	1	...	...	...	2	...	...	...	1	...	...	...
...	...	...	...	...	...	23	2	...	1	4	5	...	3	...	7	...	2	1	...	...	1	...	1	...
2	5	1	2	...	...	7	38	3	2	10	2	1	6	1	3	...	3	2	1	2	4	...	2	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	3	2	1	...	...	3	149	8	14	28	6	12	18	8	2	...	19	1	3	10	9	1	7	...
...	...	...	...	...	...	3	6	...	...	2	...	...	4	...	1	...	2	...	...	...	...	...	...	...
...	...	...	...	...	...	5	6	1	1	3	...	...	3	...	...	...	...	...	...	...	...	1	1	...
...	...	...	...	...	...	2	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	7	5	...	2	4	...	...	2	1	...	...	1	...	...	1	1	...	...	...
...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...
...	1	...	...	...	...	...	5	...	1	...	...	...	...	1	...	...	2	1	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
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5	2	...	...	...	...	...	16	...	2	2	...	...	1	3	1	...	4	...	...	...	...	...	1	...
12	11	11	1	2	...	...	65	2	3	9	9	3	5	3	6	...	4	2	2	3	6	1	2	...
9	8	7	2	1	...	...	43	1	2	5	1	1	2	1	4	...	9	1	1	2	10	...	3	...
5	3	4	1	...	...	...	30	1	2	4	...	1	4	2	3	...	4	1	...	1	5	...	1	...
4	1	2	...	1	...	...	24	1	1	5	1	...	2	1	1	...	2	2	...	...	3	1	3	...
1	1	...	...	...	...	...	2	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...
6	6	4	2	...	1	1	33	...	1	8	2	3	7	2	3	...	...	2	...	...	3	...	...	...
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2	1	...	...	...	...	...	16	...	...	3	1	...	...	2	...	...	3	2	2	...	1	1	...	...
1	3	1	...	1	...	...	8	...	1	1	...	...	...	1	1	...	1	...	...	1	2	...	...	...
1	4	2	...	...	...	1	19	1	...	1	2	...	4	1	1	...	1	...	...	...	3	1	2	...
...	...	...	1	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	2	...
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2	2	...	...	...	...	1	13	...	...	5	...	1	1	...	1	...	1	...	2	...	2	...	1	...
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1	...	...	...	...	...	...	2	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	1	...	4	...	...	1	2	...	1	...	...	...	...	...	...	...	...	...	...	...
54	52	34	10	5	2	77	531	19	40	103	35	22	72	31	38	1	73	16	13	27	54	8	28	2

CAUSES OF DEATH.	Total	SEX.		AGE.													
		M.	F.	0	1	2	3	4	5	10	15	20	25	30	35	40	
				to 1	to 2	to 3	to 4	to 5	to 10	to 15	to 20	to 25	to 30	to 35	to 40	to 45	
<b><u>Nervous System and Organs of Special Sense.</u></b>																	
Meningitis ... ..	24	13	11	4	7	3	...	1	4	2	...	...	...	...	2	1	
Encephalitis ... ..	6	4	2	...	...	1	...	...	1	2	...	...	...	...	...	...	
Locomotor Ataxy ... ..	8	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	
Other Diseases of Spinal Cord, Poliomyelitis ... ..	14	8	6	...	...	...	...	...	...	...	...	1	...	1	...	2	
Apoplexy ... ..	18	8	10	...	...	...	...	...	...	...	...	...	...	...	...	...	
Cerebral Hæmorrhage ... ..	92	46	46	2	...	...	...	...	...	...	...	...	...	1	...	2	
Softening of Brain ... ..	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Hemiplegia ... ..	4	2	2	...	...	...	...	...	...	...	...	...	...	...	...	...	
Paraplegia ... ..	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
General Paralysis of Insane ... ..	2	2	...	...	...	...	...	...	...	...	...	...	...	...	1	...	
Other forms of Mental Alienation ... ..	11	3	8	...	...	...	...	...	...	...	...	...	...	...	1	1	
Epilepsy ... ..	6	3	3	...	...	...	...	...	1	...	...	...	...	1	1	...	
Convulsions (non-puerperal; 5 years and over) ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Infantile Convulsions with Teething (under 5 years) ... ..	31	23	8	22	9	...	...	...	...	...	...	...	...	...	...	...	
Chorea ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Neuritis ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Cerebral Tumour ... ..	8	4	4	...	...	...	...	...	1	...	...	1	1	...	2	2	
Idiocy, Imbecility ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Other Diseases of Nervous System ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Mastoid Disease ... ..	2	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	
Other Diseases of the Ears ... ..	3	3	...	...	...	...	...	...	...	...	...	...	1	...	...	1	
Total Diseases of Nervous System, &c....	232	128	104	28	16	4	...	1	8	4	...	2	2	3	7	9	
<b><u>Circulatory System.</u></b>																	
Pericarditis ... ..	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	
Acute Endocarditis, Acute Myocarditis ... ..	22	9	13	1	...	2	...	...	1	1	...	3	1	3	1	1	
Valvular Disease ... ..	131	56	75	1	...	...	...	...	...	3	...	5	7	5	4	7	
Fatty Degeneration of Heart ... ..	14	8	6	...	...	...	...	...	...	...	...	...	...	...	1	...	
Other Organic Disease of Heart... ..	55	24	31	...	...	...	...	...	...	...	...	...	...	2	...	2	
Angina Pectoris ... ..	7	6	1	...	...	...	...	...	...	...	...	...	...	...	...	...	
Aneurysm ... ..	3	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	
Other Diseases of the Arteries ... ..	111	57	54	...	...	...	...	...	...	...	...	...	...	...	...	...	
Embolism and Thrombosis ... ..	20	9	11	...	...	...	...	...	...	...	...	1	...	1	...	1	
Diseases of the Veins, Phlebitis... ..	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	
Other Diseases of Lymphatic System ... ..	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Hæmorrhage; other Diseases of the Circulatory System ... ..	7	5	2	...	...	...	...	...	...	...	...	...	...	...	...	...	
Total Diseases of Circulatory System...	373	177	196	2	...	2	...	...	1	4	...	9	8	11	6	11	17

								WARD.																
60 to 65	65 to 70	70 to 75	75 to 80	80 to 85	85 and upwards	0 to 5	5 and upwards	North	East	West	Tonge	Exchange	Bradford	Church	Great Lever	Dar Lever, c-Br hmet	Derby	Hulton	Deane-c- Lostock	Rumworth	Halliwell	Heaton	Smithills	Astley
...	...	...	...	...	...	15	9	1	2	3	4	...	2	...	2	...	2	...	1	...	6	1	...	...
...	...	...	...	...	...	1	5	1	1	2	...	...	1	...	1	...	...	...	...	...	2	1	...	...
1	1	1	...	...	...	...	8	...	...	2	...	...	1	1	1	...	...	...	...	...	2	1	...	...
1	4	1	...	...	...	...	14	...	1	4	1	...	1	...	1	...	...	1	2	1	2	...	...	...
...	1	6	3	2	...	...	18	...	3	3	2	...	1	1	2	1	...	...	...	...	3	...	1	...
15	23	14	12	4	...	2	90	4	1	8	5	...	13	7	5	2	9	6	1	8	7	4	4	...
...	1	...	1	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...
...	3	...	...	...	...	...	4	1	...	1	...	...	...	...	...	...	1	...	...	...	1	...	...	...
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1	...	...	...	...	...	...	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	1	4	...	1	...	11	...	...	2	...	...	...	...	1	...	3	...	...	...	2	...	1	...
...	1	1	1	...	...	...	6	...	1	...	1	1	1	1	...	...	2	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	31	...	...	9	4	1	...	4	1	1	1	3	...	1	...	4	1	...	...
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1	...	...	...	...	...	...	3	...	...	...	1	...	2	...	...	...	...	...	...	...	...	...	...	...
22	35	24	22	6	1	49	183	9	20	30	16	1	27	10	15	4	21	7	7	10	29	7	7	1
...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
...	...	...	...	...	...	3	19	...	...	5	2	1	2	...	2	1	1	...	1	1	2	...	1	...
14	27	15	11	2	1	1	130	4	3	23	11	6	14	6	10	2	14	4	2	6	12	1	7	...
2	3	2	1	...	...	...	14	...	1	1	2	1	2	1	...	1	1	...	...	1	1	...	2	...
8	10	11	7	1	1	...	55	1	2	6	1	...	8	2	7	2	10	1	1	3	7	1	2	...
...	5	1	...	...	...	...	7	...	...	...	...	...	1	...	...	2	...	2	...	1	...	...	1	...
2	...	...	...	...	...	...	3	...	1	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...
7	23	26	22	21	9	...	111	9	16	10	6	6	14	4	4	1	10	3	1	5	16	2	2	...
6	3	...	2	2	...	...	20	1	...	7	1	1	...	1	2	...	5	...	...	1	...	...	1	...
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1	2	2	...	...	...	...	7	...	3	2	1	...	...	...	...	...	...	...	...	1	...	...	...	...
42	74	57	43	26	11	4	369	15	26	54	24	15	41	14	26	9	41	10	5	19	40	5	17	1

CAUSES OF DEATH.	Total	SEX.		AGE.													
		M.	F.	0	1	2	3	4	5	10	15	20	25	30	35	40	
				to 1	to 2	to 3	to 4	to 5	to 10	to 15	to 20	to 25	to 30	to 35	to 40	to 45	
<b>Respiratory System.</b>																	
Laryngitis ...	2	2	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...
Other Diseases of the Larynx ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bronchitis ...	235	111	124	23	5	1	1	1	...	1	1	...	2	2	3	6	...
Broncho, Catarrhal and Lobular Pneumonia ...	90	52	38	36	22	3	3	...	3	2	...	...	...	1	...	...	...
Lobar and Croupous Pneumonia ...	65	40	25	4	5	1	...	...	2	1	5	...	4	4	5	3	...
Pneumonia ...	53	30	23	3	2	...	...	2	...	1	5	1	2	4	1	2	...
Pleurisy, Empyema ...	7	3	4	...	...	...	...	...	1	...	...	...	1	...	...	2	...
Pulmonary Congestion, Pulmonary Apoplexy ...	3	1	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Gangrene of Lung ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Asthma ...	3	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pulmonary Emphysema ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fibroid Disease of Lung ...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other Diseases of Respiratory System ...	3	2	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Total Diseases of Respiratory System ...	462	244	218	68	35	5	4	3	6	5	11	2	9	11	9	13	...
<b>Digestive System.</b>																	
Diseases of the Mouth and Annexa ...	6	2	4	5	...	...	...	...	...	...	...	1	...	...	...	...	...
Diseases of the Pharynx, Tonsillitis ...	9	6	3	1	...	...	1	...	4	...	...	1	1	...	...	...	...
Diseases of the Æsophagus ...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Perforating Ulcer of the Stomach ...	5	3	2	...	...	...	...	...	...	...	...	...	...	...	...	1	...
Inflammation of the Stomach, Gastritis, Gastric Catarrh ...	13	8	5	6	1	...	...	...	...	...	...	...	...	1	...	...	...
Other Diseases of the Stomach ...	2	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Epidemic Diarrhoea, Infective Enteritis ...	15	8	7	12	1	...	...	...	...	...	...	...	...	...	...	...	...
Diarrhoea (not infective), Gastro- intestinal Catarrh ...	10	6	4	5	...	...	...	...	...	1	...	...	...	...	...	...	...
Enteritis (not infective) Muco-enteritis ...	10	2	8	3	...	...	...	...	...	...	...	...	...	...	1	...	...
Gastro-enteritis (not infective) ...	37	20	17	29	12	...	1	...	...	...	...	...	...	...	...	1	...
Dyspepsia (under 2 years) Ulceration of Intestines ...	3	1	2	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Duodenal Ulcer ...	2	1	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...
Appendicitis, Perityphlitis ...	19	11	8	...	...	...	...	1	3	4	2	1	...	1	2	...	...
Hernia ...	11	5	6	...	...	...	...	...	...	...	...	...	...	...	1	...	...
Intestinal Obstruction ...	9	6	3	5	...	...	...	...	...	2	...	...	...	...	...	...	...
Other Diseases of Intestines ...	3	2	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...
Hydatid of Liver ...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
Cirrhosis of the Liver (not alcoholic) ...	5	3	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cirrhosis of the Liver (alcoholic) Biliary Calculi ...	6	2	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other Diseases of the Liver ...	5	1	4	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Peritonitis (not puerperal) Other Diseases of the Digestive System ...	3	...	3	...	...	...	...	...	1	...	...	...	...	...	...	...	...
Total Diseases of the Digestive System ...	177	90	87	67	4	...	2	1	7	8	3	4	1	3	4	4	...
<b>Genito-urinary System and Annexa (non-venereal)</b>																	
Acute Nephritis ...	12	4	8	1	...	1	...	...	...	...	...	1	1	1	1	...	...
Chronic Bright's Disease ...	49	27	22	...	...	...	...	...	...	...	1	...	1	1	2	3	...
Nephritis (unqualified) 10 years and over, Uræmia ...	13	6	7	...	...	...	...	...	...	...	...	...	...	3	1	3	...
Other Diseases of the Kidney and Annexa ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Calculi of the Urinary Passages...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Carried forward ...	74	37	37	1	...	1	...	...	...	...	1	1	2	5	4	6	...

									WARD.															
60 to 65	65 to 70	70 to 75	75 to 80	80 to 85	85 and upwards	0 to 5	5 and upwards		North	East	West	Tonge	Exchange	Bradford	Church	Great Lever	Dar Lever, c-Br'htmet	Derby	Hulton	Deane-c-Loxstock	Rumworth	Halliwell	Heaton	Smithills
...	...	...	...	...	...	2	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...
24	38	38	33	19	4	31	204	17	25	32	6	11	23	11	22	3	26	7	5	6	23	3	8	
2	2	4	6	3	1	...	64	26	4	12	17	7	2	12	3	1	...	12	4	1	5	4	...	5
5	5	7	...	2	...	...	10	55	7	3	13	...	3	9	2	1	2	10	2	...	4	8	...	1
4	4	3	5	1	3	...	7	46	...	2	5	10	1	5	6	1	1	6	2	...	2	6	...	5
...	...	1	...	1	...	...	7	...	...	1	...	...	...	...	1	1	...	2	1	...	1	...	...	...
...	...	...	1	...	...	1	1	2	...	...	1	...	...	...	1	1	...	...	...	...	...	...	...	...
1	1	...	...	...	...	...	3	...	...	...	...	...	...	...	1	1	...	1	...	...	...	...	...	...
...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
2	...	...	...	...	...	...	3	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	1
0	36	53	50	40	23	5	115	347	28	42	70	23	17	50	26	29	6	57	16	6	17	43	3	20
...	...	...	...	...	...	...	5	1	...	...	1	...	...	3	...	1	...	...	1	...	...	...	...	...
...	...	...	...	...	...	...	2	7	1	...	1	1	...	1	...	1	1	1	...	...	...	2	...	...
...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
1	...	...	...	...	...	...	5	...	...	2	...	...	...	1	...	...	1	...	...	...	...	...	...	1
1	1	1	...	1	1	...	7	6	...	2	...	...	2	...	2	1	2	...	1	2	...	...	...	...
...	1	1	...	...	...	...	2	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...
...	...	...	1	...	...	...	13	2	...	...	4	...	2	...	...	...	...	3	2	...	3	...	...	1
1	1	...	1	1	...	...	5	5	...	1	2	1	2	1	...	...	...	1	1	...	...	...	...	1
1	...	2	...	1	1	...	3	7	1	...	1	2	2	1	...	...	...	...	1	...	1	...	...	...
...	2	1	...	1	...	...	32	5	4	2	4	2	...	3	...	2	1	12	1	2	1	2	...	...
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1	1	...	1	...	...	...	1	18	...	...	3	1	...	2	1	3	1	4	1	...	...	1	...	...
2	3	...	4	1	...	...	11	...	3	...	2	...	3	...	...	...	...	1	...	...	...	...	2	...
1	...	...	1	...	...	...	5	4	...	3	2	...	...	...	...	...	...	3	1	...	...	...	...	...
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12	12	9	11	6	2	1	74	103	9	10	28	10	6	22	1	12	5	32	9	4	8	6	3	5
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3	1	1	...	...	...	...	2	10	...	2	1	...	...	3	...	...	1	...	...	...	...	5	...	...
1	8	12	3	6	1	...	...	49	3	4	5	...	3	2	2	1	3	8	3	1	4	6	2	2
2	1	...	2	...	...	...	...	13	...	...	...	...	...	2	...	2	...	3	1	1	...	2	1	1
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6	10	13	5	6	1	...	2	72	3	6	6	...	3	7	2	3	4	11	4	2	4	13	3	3

CAUSES OF DEATH.	Total	SEX.		AGE.													
		M.	F.	0	1	2	3	4	5	10	15	20	25	30	35	40	
				to 1	to 2	to 3	to 4	to 5	to 10	to 15	to 20	to 25	to 30	to 35	to 40	to 45	
Brought forward...	74	37	37	1	...	1	...	...	...	...	1	1	2	5	4	6	
<b>Genito-urinary System</b>																	
<b>&amp; Annexa (non-venereal) cont</b>																	
Diseases of the Bladder ...	4	2	2	..	...	...	...	...	...	...	...	...	...	...	...	...	
Diseases of the Urethra, Urinary Abscess ...	2	2	...	...	...	...	...	...	..	..	...	...	...	...	1	...	
Diseases of the Prostate ...	6	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Non-venereal Diseases of Male Genital Organs ...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	..	
Uterine Hæmorrhage (non- puerperal) ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Uterine Tumour (non-cancerous)	5	...	5	...	...	...	...	...	...	...	...	...	...	1	...	...	
Other Diseases of the Uterus ..	1	...	1	...	...	...	...	...	...	...	...	...	...	..	...	...	
Ovarian Cyst, Tumour (non- cancerous) ...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	
Other Diseases of Female Genital Organs ...	...	...	..	...	...	..	...	...	...	...	...	...	...	...	...	...	
Non-puerperal Diseases of the Breast (non-cancerous) ...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	
Other Diseases of Genito-urinary System... ..	1	...	1	..	...	...	...	...	...	...	...	...	...	1	...	...	
Total Diseases of the Genito-urinary System	95	47	48	1	...	1	...	...	...	...	1	1	2	7	5	6	
<b>The Puerperal State.</b>																	
Abortion, Miscarriage ...	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...	2	
Other Accidents of Pregnancy ...	1	...	1	..	...	...	...	...	...	...	1	...	..	...	...	...	
Puerperal Hæmorrhage, Flooding	1	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	
Other Accidents of Childbirth ...	6	...	6	...	...	...	...	...	...	...	...	1	2	3	...	...	
Puerperal Fever ...	6	...	6	...	...	...	...	...	...	...	1	..	1	3	1	...	
Puerperal Albuminuria and Convulsions ...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	
Total Puerperal ...	17	...	17	...	...	...	...	...	...	...	2	1	3	7	4	...	
<b>Skin &amp; Cellular Tissue.</b>																	
Senile Gangrene ...	3	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	
Other Gangrene ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Carbuncle, Boil ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Phlegmon, Acute Abscess ...	2	1	1	1	...	...	...	...	...	...	...	...	...	...	1	...	
Ulcer, Bedsore ...	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	
Excema ...	1	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	
Other Diseases of the Skin and Cellular Tissue ...	2	1	1	2	...	...	...	...	...	...	...	...	...	...	...	...	
Total Diseases of the Skin, &c.	10	4	6	4	...	...	...	...	...	...	...	...	...	...	1	...	
<b>Diseases of the Bones and Locomotor System.</b>																	
Diseases of the Bones ...	5	3	2	...	..	...	1	...	1	2	...	...	...	...	1	...	
Diseases of the Joints ..	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Other Diseases of Locomotor System, ...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	
Total Diseases of Locomotor System, &c. ...	7	4	3	...	...	...	1	...	1	2	...	..	...	...	1	...	
<b>Malformations.</b>																	
Congenital Hydrocephalus ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Congenital Malformation of the Heart ...	8	2	6	6	1	...	...	...	...	1	...	...	...	...	...	...	
Other Congenital Malformations	10	5	5	10	...	...	...	...	...	...	...	...	...	...	...	...	
Total Congenital Malformations	18	7	11	16	1	...	...	...	...	1	...	...	...	...	...	...	

I.—Continued  
DEATH, 1921.

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									WARD.															
55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	80 to 85	85 and upwards	0 to 5	5 and upwards	North	East	West	Tonge	Exchange	Bradford	Church	Great Lever	Dar Lever. c-Br'htmet	Derby	Hulton	Deane-c-Lostock	Rumworth	Halliwell	Heaton	Smithills
6	10	13	5	6	1	...	2	72	3	6	6	...	3	7	2	3	4	11	4	2	4	13	3	
...	1	1	...	1	...	...	...	4	...	...	...	...	...	...	...	...	...	...	1	1	1	1	...	...
...	1	...	...	...	...	...	...	2	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...
...	...	2	4	...	...	...	...	6	1	1	...	...	...	1	...	...	...	...	...	1	1	1	...	...
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6	12	16	12	7	1	...	2	93	4	9	6	...	3	9	2	4	4	13	5	5	7	15	4	
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...	...	...	...	...	...	...	10	...	...	...	...	1	...	3	...	...	...	1	1	...	1	1	...	2
...	...	...	...	...	...	...	17	1	1	2	...	1	...	3	1	...	...	3	1	...	2	2	...	2

CAUSES OF DEATH.	Total	SEX.		AGE.													
		M.	F.	0	1	2	3	4	5	10	15	20	25	30	35	40	
				to 1	to 2	to 3	to 4	to 5	to 10	to 15	to 20	to 25	to 30	to 35	to 40	to 45	
<b>Diseases of</b>																	
<b>Early Infancy.</b>																	
Premature Birth ...	73	38	35	73	...	...	...	...	...	...	...	...	...	...	...	...	...
Atrophy, Debility, Marasmus (infantile) ...	53	33	20	53	...	...	...	...	...	...	...	...	...	...	...	...	...
Icterus Neonatorum ...	3	1	2	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Want of Breast Milk...	4	1	3	4	...	...	...	...	...	...	...	...	...	...	...	...	...
Diseases of Umbilicus	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Atelectasis ...	7	1	6	7	...	...	...	...	...	...	...	...	...	...	...	...	...
Injuries at Birth ...	4	4	...	4	...	...	...	...	...	...	...	...	...	...	...	...	...
Lack of Care ...	3	3	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Total Diseases of Early Infancy	147	81	66	147	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Old Age.</b>																	
Senile Decay, Old Age ...	103	42	61	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Senile Dementia ...	12	5	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total Diseases of Old Age ...	115	47	68	...	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Violent Causes.</b>																	
<b>1.—Accident.</b>																	
Other Acute Poisonings ...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Poisoning by Deleterious Gases, Suffocation ...	1	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...
Conflagration ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Burns (conflagrations excepted)...	10	6	4	1	2	1	1	2	2	...	...	...	...	...	...	...	...
Drowning...	7	7	...	...	...	1	...	...	1	1	...	1	...	...	...	...	...
Firearms ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cutting or Piercing Implements...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...
Falls ...	14	10	4	...	...	...	...	...	1	...	...	1	...	...	1	...	...
In Mines and Quarries ...	2	2	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
Machinery ...	2	2	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Vehicles ...	15	13	2	...	...	...	...	...	2	1	...	...	...	1	1	2	...
Animals ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Weather Agencies ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Otherwise or not stated	2	2	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...
<b>2.—Suicide.</b>																	
Poison ...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Asphyxia ...	5	3	2	...	...	...	...	...	...	...	...	...	...	...	1	1	...
Hanging or Strangulation	3	3	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...
Drowning...	7	4	3	...	...	...	...	...	...	...	...	1	...	...	1	1	...
Firearms ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other Suicides ...	6	4	2	...	...	...	...	...	...	...	...	1	...	...	...	1	...
<b>3.—Homicide.</b>																	
...	3	1	2	1	2	...	...	...	...	...	...	...	...	...	...	...	...
<b>4.—Execution.</b>																	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total Violent Deaths ...	80	59	21	3	4	2	1	2	6	3	...	5	...	3	5	7	...
<b>Ill-defined Causes.</b>																	
Atrophy, Debility, Marasmus (age 1 and under 70) ...	1	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
Heart Failure (age 1 and under 70) ...	4	1	3	...	...	...	...	...	...	...	...	...	...	1	1	...	...
Syncope (age 1 and under 70) ...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Teething, Dentition, (without Convulsions) ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dropsy, Ascites, Anasarca ...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other Ill-defined Causes ...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total Ill-defined Deaths ...	8	4	4	...	1	...	...	...	...	...	...	...	...	1	1	...	...

								WARD.																
60 to 65	65 to 70	70 to 75	75 to 80	80 to 85	85 and upwards	0 to 5	5 and upwards	North	East	West	Tonge	Exchange	Bradford	Church	Great Lever	Dar Lever. c-Br hmet	Derby	Hulton	Deane-c- Looock	Rumworth	Halliwell	Heaton	Smithills	
...	...	...	...	...	...	73	...	4	7	11	3	3	6	6	10	...	9	1	1	4	6	...	1	
...	...	...	...	...	...	53	...	6	1	7	...	3	12	1	...	2	8	2	...	2	6	1	1	
...	...	...	...	...	...	3	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	
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...	...	...	...	...	...	3	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	1	
...	...	...	...	...	...	147	...	10	8	23	4	6	23	8	11	2	18	4	2	7	13	1	3	
2	3	19	25	30	23	...	103	6	3	18	4	1	9	6	6	2	10	5	2	1	11	5	6	
...	1	3	4	3	1	...	12	...	...	2	2	1	1	...	...	1	1	1	...	...	2	...	...	
2	4	22	30	33	24	...	115	6	3	20	6	2	10	5	6	3	11	6	2	1	13	5	6	
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...	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	
1	1	1	1	...	...	...	7	...	...	1	1	...	...	...	3	1	1	...	...	...	...	...	...	
...	...	...	...	...	...	...	6	...	...	...	...	...	...	...	...	1	1	1	1	...	...	...	1	
...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
8	6	5	2	1	...	1	12	68	3	1	12	2	1	5	...	10	5	14	5	2	5	8	1	2
...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	
...	2	...	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	
...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	
...	1	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	
...	1	3	...	...	...	...	1	7	...	...	1	...	1	...	1	...	1	...	...	1	...	1	...	

CAUSES OF DEATH.	Total	SEX.		AGE													
		M.	F.	0	1	2	3	4	5	10	15	20	25	30	35	40	
				to 1	to 2	to 3	to 4	to 5	to 10	to 15	to 20	to 25	to 30	to 35	to 40	to 45	
General Diseases ...	608	263	345	34	21	9	11	2	24	17	34	23	26	18	32	40	
Nervous System, &c. ...	232	128	104	28	16	4	...	1	8	4	...	2	2	3	7	9	
Circulatory System ...	373	177	196	2	...	2	...	...	1	4	...	9	8	11	6	11	
Respiratory System ..	462	244	218	68	35	5	4	3	6	5	11	2	9	11	9	13	
Digestive System ...	177	90	87	67	4	...	2	1	7	8	3	4	1	3	4	4	
Genito-urinary System &c. ... ..	95	47	48	1	...	1	...	...	...	..	1	1	2	7	5	6	
The Puerperal State ...	17	...	17	...	...	...	...	...	...	...	...	2	1	3	7	4	
Skin and Cellular Tissue	10	4	6	4	...	...	...	...	...	...	...	...	...	...	1	...	
Locomotor System, &c.	7	4	3	...	...	...	1	...	1	2	...	...	...	...	1	...	
Malformations ...	18	7	11	16	1	...	...	...	...	1	...	...	...	...	...	...	
Diseases of Early Infancy ...	147	81	66	147	...	...	..	..	...	...	...	...	..	...	...	...	
Old Age ...	115	47	68	...	...	...	...	...	...	...	...	...	..	...	...	...	
Violent Causes ...	80	59	21	3	4	2	1	2	6	3	...	5	...	3	5	7	
Ill-defined Causes ...	8	4	4	...	1	...	...	...	...	...	...	...	...	1	1	...	
Grand Total ...	2349	1155	1194	370	82	23	19	9	53	44	49	48	49	60	78	94	

I.—Continued  
DEATH, 1921.

13

									WARD.														
55 to 60	60 to 65	65 to 70	70 to 75	75 to 80	80 to 85	85 and upwards	0 to 5	5 and upwards	North	East	West	Tonge	Exchange	Bradford	Church	Great Lever	Dar Lever c-Br'htmet	Derby	Hulton	Deane-c-Lostock	Rumworth	Halliwell	Heaton
57	54	52	34	10	5	2	77	531	19	40	103	35	22	72	31	38	1	73	16	13	27	54	8
19	22	35	24	22	6	1	49	183	9	20	30	16	1	27	10	15	4	21	7	7	10	29	7
29	42	74	57	43	26	11	4	369	15	26	54	24	15	41	14	26	9	41	10	5	19	40	5
30	36	53	50	40	23	5	115	347	28	42	70	23	17	50	26	29	6	57	16	6	17	43	3
12	12	9	11	6	2	1	74	103	9	10	28	10	6	22	1	12	5	32	9	4	8	6	3
6	12	16	12	7	1	...	2	93	4	9	6	...	3	9	2	4	4	13	5	5	7	15	4
...	...	...	...	...	...	...	...	17	...	...	1	2	...	1	...	1	...	4	...	...	...	1	...
...	1	1	1	...	2	...	4	6	1	1	2	...	...	...	...	...	1	...	1	2	2	...	...
1	1	...	...	...	...	...	1	6	1	...	2	...	...	...	...	2	...	...	...	...	1	1	...
...	...	...	...	...	...	...	17	1	1	2	...	1	...	3	1	...	...	3	1	...	2	2	...
...	...	...	...	...	...	...	147	...	10	8	23	4	6	23	8	11	2	18	4	2	7	13	1
...	2	4	22	30	33	24	...	115	6	3	20	6	2	10	6	6	3	11	6	2	1	13	5
8	6	5	2	1	...	1	12	68	3	1	12	2	1	5	...	10	5	14	5	2	5	8	1
...	1	3	...	...	...	...	1	7	...	...	...	1	...	1	...	1	...	1	...	...	1	...	1
162	189	252	213	159	98	45	503	1846	106	162	351	124	73	264	99	155	40	288	80	48	107	228	38

TABLE II.

POPULATION, BIRTHS AND DEATHS, 1913-1921.

Year.	Population estimated to middle of each year	Births.			Total Deaths registered in the District.		Transferable Deaths.		Nett Deaths belonging to the District.			
		Uncorrected Number.	Nett.				of Non-residents Registered in the District.	of Residents not Registered in the Borough.	Under 1 year of Age.		At all ages.	
			Number.	Rate.	Number.	Rate.			Number.	Rate per 1000 nett Births.	Number.	Rate.
1	2	3	4	5	6	7	8	9	10	11	12	13
1913	183879	3976	3999	21.7	2564	13.9	39	370	569	142	2895	15.7
1914	185247	4076	4104	22.1	2416	13.0	60	365	485	118	2721	14.6
1915	172514	3597	3620	19.5	2390	13.8	44	367	446	123	2713	15.7
1916	169081	3053	3067	16.6	2101	12.4	64	380	320	104	2419	14.3
1917	163411	2692	2710	14.8	2149	13.1	51	379	291	107	2477	15.1
1918	160619	2736	2749	15.2	2468	15.3	51	387	291	105	2815	17.5
1919	177462	3032	3052	16.5	2380	13.4	64	336	263	86	2652	14.9
1920	184533	4182	4209	22.8	2277	12.3	74	325	416	98	2528	13.6
1921	182200	3815	3831	21.0	2038	11.1	81	392	370	96	2349	12.8

## CENSUS, 1911.

Total Population at all ages	...	...	...	...	180851
Total Families or Separate Occupiers	...	...	...	...	40681
Area of District in acres (land and water)	...	...	...	...	15279



TABLE IV.

INFANT MORTALITY DURING THE YEAR 1921.  
NETT DEATHS FROM STATED CAUSES AT VARIOUS AGES UNDER ONE YEAR OF AGE.

Causes of Death			Under 1 Week	1-2 Weeks	2-3 Weeks	3-4 Weeks	Total under 4 Weeks	1-3 Months	3-6 Months	6-9 Months	9-12 Months	Total under 1 Year
All Causes	Certified	Uncertified	88 14	24 ...	25 ...	7 ...	144 14	79 ...	54 ...	43 ...	36 ...	356 14
Small Pox	...	...	...	...	...	...	...	...	...	...	...	...
Chicken Pox	...	...	...	...	...	...	...	...	...	...	...	...
Measles	...	...	...	...	...	1	1	1	...	...	...	2
Scarlet Fever	...	...	...	...	...	...	...	...	...	...	...	...
Whooping Cough	...	...	...	...	...	...	...	3	3	5	2	13
Diphtheria and Croup	...	...	...	...	...	...	...	...	...	...	...	...
Erysipelas	...	...	...	...	...	...	...	...	...	...	...	...
Tuberculous Meningitis	...	...	...	...	...	...	...	...	...	...	...	...
Abdominal Tuberculosis	...	...	...	...	...	...	...	1	2	1	1	1
Other Tuberculous Diseases	...	...	...	...	...	...	...	...	...	...	...	4
Meningitis ( <i>not Tuberculous</i> )	...	...	...	...	...	...	...	...	...	...	...	2
Convulsions	...	...	8	1	2	...	11	4	3	1	1	4
Laryngitis	...	...	...	...	...	...	...	1	...	...	...	1
Bronchitis	...	...	1	2	...	2	5	7	4	3	4	23
Pneumonia (all forms)	...	...	...	2	...	...	2	3	8	17	13	43
Diarrhoea	...	...	...	...	...	...	...	4	2	1	1	8
Enteritis	...	...	...	3	1	...	4	17	13	3	4	41
Gastritis	...	...	...	...	1	...	1	1	3	1	1	6
Syphilis	...	...	...	1	1	...	2	3	...	2	1	8
Rickets	...	...	...	...	...	...	...	...	...	...	...	...
Suffocation	...	...	...	...	...	...	...	1	...	...	...	1
Injury at Birth	...	...	...	...	...	...	...	...	...	...	...	...
Atelectasis	...	...	4	1	...	...	4	...	...	...	...	4
Congenital Malformations	...	...	5	3	3	1	7	...	...	...	...	7
Premature Birth	...	...	7	3	8	...	13	2	1	...	...	16
Atrophy, Debility and Marasmus	...	...	56	7	7	...	67	5	1	...	...	73
Other Causes	...	...	13	1	2	2	29	17	6	...	1	53
	...	...	8	...	2	1	12	9	6	6	5	38
Totals	...	...	102	24	25	7	158	79	54	43	36	370

Nett Births Registered during the year—Legitimate, 3639; Illegitimate, 192.

Nett Deaths Registered during the year—Legitimate Infants, 354; Illegitimate Infants, 16.

TABLE V.

**Public Health (Tuberculosis) Regulations, 1912.**

Summary of Notifications during the period from the 2nd January, 1921, to the 31st December, 1921,  
in the County Borough of Bolton.

AGE-PERIODS.	NOTIFICATIONS ON FORM A.													NOTIFICATIONS ON FORM B.					Number of Notifications on Form C.		
	Number of Primary Notifications.													Total Not-ifications on Form A	Number of Primary Notifications				Total Not-ifications on Form B.	Poor Law Institutions.	Sanatoria.
	0 to 1	1 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 and upwards.	Total Primary Notifica-tions.									
Pulmonary Males	1	1	2	...	6	9	11	17	22	15	2	86	88	...	1	...	1	1	30	113	
.. Females	1	1	3	2	9	6	24	17	6	5	...	74	75	...	...	2	2	2	16	76	
Non-pulmonary Males	1	8	9	6	3	2	2	2	...	2	1	36	37	...	3	2	5	5	9	17	
.. Females	3	4	9	2	5	6	2	2	1	1	...	35	35	...	2	2	4	4	6	7	
Col. (1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	

**Notes re preceding table :**

Primary notifications relate to patients who have not previously been notified in this or former years, either on Form A, or on Form B, in the area to which the return relates.

Cols. 2 to 13 Only those cases which have been notified for the first time during the year on Form A in the area concerned, and which have never previously been notified in the area, either on Form A or on Form B, are included in these columns.

Col. 14 This column shows the extent to which duplicate notification occurs on Form A, and all notifications on Form A whether duplicate or not, are included in this column.

Cols. 15 to 18 Only those cases which have been notified for the first time during the year on Form B, in the area concerned, and which have never previously been notified in the area, either on Form A or on Form B, are included in these columns.

Col. 19. All notifications which have been made during the year on Form B in the area concerned, whether the cases have previously been notified in the area or not, either on Form A or on Form B, are included in this column.