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Contributors

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COUNTY BOROUGH OF BURY.

ANNUAL REPORT
OF THE
Medical Officer of Health
FOR THE YEAR
1921.

BY
G. GRANVILLE BUCKLEY,
M.D., D.P.H.,

MEDICAL OFFICER OF HEALTH, CHIEF TUBERCULOSIS OFFICER.
MEDICAL OFFICER TO THE EDUCATION COMMITTEE,
AND
MEDICAL ADVISER TO THE LOCAL INSURANCE COMMITTEE.

BURY:
PRINTED AT THE "TIMES" OFFICE, CROSS STREET.
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HEALTH COMMITTEE, 1921.

CHAIRMAN - COUNCILLOR T. B. SMITH.

DEPUTY-CHAIRMAN - COUNCILLOR BOYDEN.

HIS WORSHIP THE MAYOR	COUNCILLOR BATTERSBY,
(ALDERMAN THOMAS ROTHWELL),	„ DAWSON,
ALDERMAN ASHWORTH,	„ SIR J. HACKING
„ BRADLEY,	„ HALL,
„ COLLINGE,	„ HARGREAVES,
„ FLETCHER,	„ JOHNSON,
„ GREENHALGH,	„ REDFORD,
COUNCILLOR HAROLD	„ J. SMITH,
ASHWORTH,	„ A. TAYLOR,
„ HENRY	„ JANE TAYLOR,
ASHWORTH,	„ WILKINSON.

Meetings—The Wednesday in each month immediately preceding the 14th day before the Council, at 10-0 a.m.

OFFICIALS OF THE HEALTH DEPARTMENT.

*Inspector of Nuisances, District Inspector of Moorside, East, and part of Redvales Wards, Inspector under Shop Hours' Acts, Inspector under Explosives Act, &c. :—*JOHN HAWORTH, Cert. R.S.I., Certified Sanitary Engineer, Certified Inspector of Meat and other Food.

*District Inspector for Church, Elton, and part of Redvales Wards, Inspector under Canal Boat Acts, &c. :—*SAMUEL KAY, Cert. R.S.I.

*Smoke Inspector, Inspector of Infectious Diseases, Common Lodging Houses, &c. :—*HENRY MITCHELL, Cert. R.S.I.

*Abattoirs Superintendent, Inspector of Meat, and of Dairies, Cowsheds, and Milkshops; Inspector of Offensive Trades, &c. :—*ALEXANDER ADAMS, Cert. R.S.I., Certified Inspector of Meat and other Foods.

* *Health Visitors, Inspectors of Workshops (where Females are employed), Inspectors under Shop Hours' Acts, Inspectors of Midwives, &c. :—*NURSES M. HACKING, C.M.B., S. PENNINGTON, C.M.B., B. GREENHALGH, C.M.B., and E. WEBSTER, Cert. R.S.I.

* *School Visitors :—*LILIAN H. RISHTON, M.I.H., and MINNIE E. TAYLOR, C.M.B. (commenced April 1st, 1921).

*Chief Clerk :—*P. WOOD. *Assistant Clerks :—*L. KAY and C. PROPHET.

* *Medical Officer of Health :*

G. GRANVILLE BUCKLEY, M.D., Ch.B., D.P.H.

* *Assistant Medical Officer of Health :*

CLAUDE S. HARWOOD, M.D., B.Sc., D.P.H.

Inspector under Food and Drugs Acts :

H. C. CASS (Markets Inspector).

*Borough Analyst :—*THOMAS J. HUTCHINSON, F.I.C.

*Veterinary Inspector and Surgeon :—*W. E. S. RICHMOND,
M.R.C.V.S.

* Salary contribution made under Public Health Acts or by
Exchequer Grants.

Public Health Department,
Clough Street,
BURY,

August, 1922.

To the Chairman and Members of the Health Committee.

Lady and Gentlemen,

I have the honour to present to you my Annual Report on the health and sanitary circumstances of your Borough during the year 1921.

In a circular issued by the Ministry of Health it has been suggested that Annual Reports of a full and detailed character (to be known as "Survey" Reports) shall only be issued at intervals of not more than five years. In other years Reports of a more simple character (to be referred to as "Ordinary" Reports) should be issued. The Reports of 1919 and 1920 will be treated as constituting the first series of "Survey" Reports.

The birth rate for the year (18.91) is slightly lower than the rate for 1920, which was 19.66 per 1,000 of the population.

The death rate (13.30) shows a decrease of 1.25 per 1,000 as compared with the rate for 1920, and is the lowest ever recorded for the Borough.

I am pleased to report that the Infant Mortality rate still continues to decrease. The rate for the year is 85 per 1,000 births, and this rate also is the lowest recorded for the Borough. The average for the previous ten years was 118 per 1,000 births. The rate (85) compares very favourably with the average rate (87 per 1,000 births) of the 96 great towns in England and Wales.

I am, Lady and Gentlemen,

Yours obediently,

G. GRANVILLE BUCKLEY,

Medical Officer of Health.

County Borough of Bury.

STATISTICAL SUMMARY, 1921.

Situation—Latitude, 53° 36' N.; Longitude, 2° 18' W.

Population (estimated 1921)	57,600						
„ (census 1921)	56,426						
Number of Inhabited Houses (census 1911)... ..	13,919						
Marriages (Bury)	556						
Births	<table><tr><td>Males</td><td>520</td><td rowspan="2">} Total ...</td><td rowspan="2">1,089</td></tr><tr><td>Females</td><td>569</td></tr></table>	Males	520	} Total ...	1,089	Females	569
Males	520	} Total ...	1,089				
Females	569						
„ (Illegitimate)	<table><tr><td>Males</td><td>28</td><td rowspan="2">} Total ...</td><td rowspan="2">57</td></tr><tr><td>Females</td><td>29</td></tr></table>	Males	28	} Total ...	57	Females	29
Males	28	} Total ...	57				
Females	29						
Annual Rate of Births per 1,000 of the Population... ..	18.91						
Deaths	<table><tr><td>Males</td><td>374</td><td rowspan="2">} Total ...</td><td rowspan="2">766</td></tr><tr><td>Females</td><td>392</td></tr></table>	Males	374	} Total ...	766	Females	392
Males	374	} Total ...	766				
Females	392						
Annual Rate of Mortality per 1,000 of the population	13.30						
Excess of Registered Births over Deaths	323						
Infant Mortality	85 per 1,000 Births.						
Area (acres)	5,925						
Rateable value	£387,416						
Sum represented by a penny rate	£1,360						

LEGAL SUMMARY.

Statutes in force in the Borough (other than Public General Acts) :—

LOCAL ACT.

Bury Corporation Act, 1909.

ACTS CONFIRMING PROVISIONAL ORDERS.

Local Government Board's Provisional Orders Confirmation (No. 17) Act, 1903. (An Act to confirm certain Provisional Orders relating to Bury and the Bury and District Joint Hospital Board.)

ACTS CONFIRMING PROVISIONAL ORDERS (Continued).

Local Government Board's Provisional Orders Confirmation (No. 5) Act, 1911, which confirmed a Provisional Order made by the Local Government Board for the inclusion of Warth Fold within the Borough as from the 9th November, 1911.

Local Government Board's Provisional Orders Confirmation (No. 10) Act, 1914, which confirmed an Order authorising the carrying out of certain street improvements.

Local Government Board's Provisional Orders Confirmation (No. 15) Act, 1912, confirming the Bury (Extension) Financial Adjustments Order, 1912.

Local Government Board's Provisional Orders Confirmation (No. 1) Act, 1913, repealing Section 212 of the Bury Corporation Act, 1909, and the tenth Schedule, and abolishing the special rating districts, or added area differential rating.

Local Government Board's Provisional Orders Confirmation (No. 13) Act, 1914, repealing Section 141 of the Bury Corporation Act, 1909, which prohibited streets being laid out for building purposes exceeding 100 yards in length without an intersecting street every 100 yards.

Tramways Orders Confirmation Act, 1915, authorising the extension of the Bury Tramways to the New Inn, Walmersley, and at Jericho.

ACTS ADOPTED.

Public Health Acts Amendment Act, 1890. (March 5th, 1891; came into operation May 1st, 1891.)

Infectious Diseases (Prevention) Act, 1890. (August 2nd, 1900; came into operation October 1st, 1901.)

Housing of the Working Classes Act, 1890—Part III. (June 3rd, 1909.)

ACTS ADOPTED (Continued).

Notification of Births Act, 1907. (March 5th, 1908.)

Public Health Acts Amendment Act, 1907. Orders made, declaring certain Parts and Sections thereof to be in force in the Borough, by the Local Government Board on November 8th, 1909 (came into operation 1st January, 1910), and by the Secretary of State on October 13th, 1909.

ACTS CONSTITUTING CERTAIN JOINT AUTHORITIES—

- (i.) as to prevention of pollution of rivers, namely: Local Government Board's Provisional Orders Confirmation (No. 10) Act, 1891. (Confirming a Provisional Order constituting a Joint Committee, under section 14 of the Local Government Act, 1888, to enforce the provisions of the Rivers Pollution Prevention Act, 1876, in relation to parts of the Rivers Irwell and Mersey);
- (ii.) as to water supply, namely:—Bury and District Water (Transfer) Act, 1900 (constituting the Bury and District Joint Water Board).

Causes of, and Ages at Death during the Year 1921.

Causes of Death.	Nett Deaths at the subjoined Ages of Residents, whether occurring within or without the District.									Total Deaths whether of Residents or Non-residents in Institutions in the District.
	All ages.	Under 1 year.	1 and under 2.	2 and under 5.	5 and under 15.	15 and under 25.	25 and under 45.	45 and under 65.	65 and upwards.	
All Causes { Certified	756	93	19	10	25	28	100	229	252	238
{ Uncertified ..	10	..	..	..	..	..	..	2	8	
Enteric Fever	..	..	..	..	..	..	..	..	..	..
Smallpox.....	..	..	..	..	..	..	..	..	..	..
Measles	7	2	2	2	1	..	..	..	..	1
Scarlet Fever.....	2	..	..	..	1	..	1	..	..	1
Whooping Cough	..	..	..	..	..	..	..	..	..	..
Diphtheria and Croup....	6	..	..	1	4	1	..	..	..	5
Influenza	9	..	..	..	1	..	1	5	2	1
Erysipelas	2	..	..	..	..	1	1	..	..	1
Phthisis (Pulmonary Tuberculosis).....	51	..	..	..	3	7	19	19	3	9
Tuberculous Meningitis ..	7	3	..	1	2	1	..	..	..	..
Other Tuberculous Diseases	6	..	..	1	1	..	2	2	..	3
Cancer, Malignant Disease	75	..	..	..	..	..	12	39	24	23
Rheumatic Fever.....	..	..	..	..	..	..	..	..	..	..
Meningitis	..	..	..	..	..	..	..	..	..	..
Organic Heart Disease ..	117	1	..	..	2	4	10	35	65	36
Bronchitis	83	3	4	..	..	..	8	26	42	17
Pneumonia (all forms) ..	47	12	4	2	1	1	11	9	7	7
Other Diseases of Respiratory Organs	5	..	..	..	..	..	1	2	2	..
Diarrhoea and Enteritis ..	22	11	2	..	..	..	..	6	3	5
Appendicitis and Typhlitis	1	..	..	..	1	..	..	..	..	4
Cirrhosis of Liver.....	2	..	..	..	..	..	..	2	..	..
Alcoholism.....	..	..	..	..	..	..	..	..	..	..
Nephritis and Bright's Disease	15	..	..	..	..	2	3	7	3	1
Puerperal Fever	2	..	..	..	..	..	2	..	..	1
Other accidents & Diseases of Pregnancy and Parturition	2	..	..	..	..	..	2	..	..	..
Congenital Debility and Malformation, including Premature Birth ..	40	40	..	..	..	..	..	..	..	3
Violent Deaths, excluding Suicides	18	..	1	1	2	1	3	7	3	12
Suicides	12	..	..	..	..	..	1	10	1	8
Other Defined Diseases ..	172	10	4	1	5	9	22	60	61	66
Diseases Ill-defined or Unknown	63	11	2	1	1	1	1	2	44	34
	766	93	19	10	25	28	100	231	260	238

Vital Statistics of Whole District during 1921 and Previous Years.

YEAR	Population estimated to middle of each Year.	BIRTHS.		TOTAL DEATHS REGISTERED IN THE DISTRICT.		Transfer-able Deaths of Non-residents registered in the District.	Transfer-able Deaths of Residents not registered in the District.	NET DEATHS BELONGING TO THE DISTRICT.					
		Nett.						Under 1 Year of Age.		At all Ages.			
		Number.	Rate	Number	Rate			Number.	Rate per 1000 nett Births.	Number	Rate.		
1916	...	...	53463	900	15.47	1040	19.45	169	31	120	133	902	16.87
1917	...	...	51851	776	13.43	939	18.11	162	52	72	93	829	15.99
1918	...	...	51851	728	12.73	1096	21.13	164	44	80	110	976	19.13
1919	...	...	54248	738	13.06	1014	18.69	146	48	68	92	916	16.88
1920	...	...	56410	1118	19.66	912	16.16	136	45	102	91	821	14.55
1921	...	...	57600	1089	18.91	841	14.60	124	49	93	85	766	13.30

Area of District in acres (land and inland water) 5925.

Total population at all ages 59040
 Total families or separate occupiers ... 13919
 Average number of persons per house ... 4.24

At Census of 1911.

INQUESTS DURING THE YEAR.

During the year the causes of death of 62 Bury residents were investigated by the District Coroner (Mr. S. F. Butcher). In 52 instances it was found advisable to hold an inquest, and of this number 39 related to the bodies of males and 13 to the bodies of females. In 10 cases a public enquiry was dispensed with.

UNCERTIFIED DEATHS.

The number of uncertified deaths (i.e., deaths which had not been certified by a medical man, or cases in which the Coroner considered an inquest unnecessary) was 10, five being of males and five of females.

INFANT MORTALITY.

Number of births during the year...	1,089
Number of deaths of children under one year of age...	93
Infant Mortality Rate, per 1,000 births ...	85

The following table shows the number of deaths of infants per 1,000 births in Bury during the past eleven years:—

1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	Average 10 years.	1921
168	112	141	125	115	133	93	110	92	91	118	85

Infant Mortality for the whole of England and Wales (1921) ...	83
For the 96 Great Towns ...	87
For the 148 Smaller Towns ...	84

Influence of Feeding on Infant Mortality.—During the year the following information has been obtained as to the method of feeding of 1,036 of the 1,044 infants notified. Of these:

872	were breast-fed,	amongst which were 20 deaths, i.e.,	2.28%
119	„ bottle-fed	„ „	21.85%
31	„ breast and bottle-fed	„ „	12.90%
14	„ spoon-fed	„ „	100.00%

8 died within 24 hours of birth, or no particulars could be obtained.

Of the 93 deaths which have been recorded of children under one year of age, the following is an analysis of the nature of feeding :—

38, or 40.86 per cent., were bottle-fed.

27, or 29.03 per cent., were fed naturally.

6, or 6.45 per cent., were partly breast and partly bottle fed.

14, or 15.06 per cent., were spoon-fed.

8, or 8.60 per cent., died almost immediately after birth.

District Mortality.

		Infant Deaths.	Births.	Deaths per 1000 Births
Bury North	{ Moorside Ward	32	263	125
	{ East Ward	18	246	73
Bury South	{ Church Ward	12	154	78
	{ Redvales Ward	9	170	53
Elton Ward		22	256	86
Whole Borough... ..		93	1089	85

Number of women dying in, or in consequence of, childbirth :—From Sepsis one, from other causes one.

NOTIFICATION OF BIRTHS ACT, 1907.

The above Act was adopted at a meeting of the Town Council held on February 8th, 1908, and the consent of the Local Government Board having been obtained, came into operation on April 8th, 1908. The Act was, however, extended to all districts on September 1st, 1915.

Under the Notification of Births Act of 1917, 1,044 births were notified, 853 being notified by midwives, 146 by medical practitioners, and 45 by parents or other persons. Of the total number of births notified, 62 were returned as being "still-born," of which 40 were notified by midwives and 22 by medical practitioners.

MIDWIVES' ACT.

The number of midwives on the register at the end of the year was 18, an increase of one on the total at the end of the year 1920, eleven of whom were trained and certified by examination. Speaking generally, they have complied with the rules and regulations according to the Midwives' Act.

MATERNITY AND CHILD WELFARE.

MOTHERS' WELCOME.

In November, 1916, a Committee of voluntary workers, including representatives of the Bury Co-operative Women's Guild, opened the "Mothers' Welcome" at 12, John Street. The building contains consulting room, play room for children, tea room for mothers, weighing room, lavatories, &c. The Welcome is open every Monday and Thursday afternoon.

In April, 1919, the Centre was taken over by the Corporation, but the voluntary Committee also continued to assist with the work.

At the end of the year there were 510 children on the register and 3,040 attendances had been made. There were also 48 expectant mothers on the register, with a total attendance of 169.

In April, 1920, arrangements were made for a Centre to be opened at Wood Street School, Elton. The Centre is open every Wednesday afternoon, and it has met with great success. At the end of the year there were 331 children on the register, and 1,119 attendances had been made. There were also 10 expectant mothers on the register, with a total attendance of 39.

Full records are kept of each child, and when considered necessary the child is examined by the Medical Officer in attendance. The Health Visitors have attended on 276 occasions. No treatment is carried out at the Centres, but where the child requires medical attention the mother is directed to consult her own medical man.

MILK (Mothers and Children) ORDER, 1919.

During the year 145 applications were received for free milk under the above Order, of which 126 were granted and 19 refused.

COMPLICATED CASES OF LABOUR.

In June, 1920, arrangements were made with the Board of Management of the Bury Infirmary for the treatment of complicated cases of Labour. During the year eleven patients were treated at the institution.

Table showing the number of cases of Infectious Disease notified from 1902 to 1921.

DISEASE.	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921
Smallpox	37	59	25	33	1	..	..	..	..	30	..	..	..	..	1	..	..	..	..	..
Scarlet Fever	156	156	261	197	90	40	98	389	564	220	139	296	250	156	112	85	50	27	76	138
Diphtheria and Membranous Croup	182	107	73	55	35	48	52	59	44	44	13	66	59	51	48	165	114	115	74	49
Enteric Fever.....	33	37	22	33	33	18	15	9	18	25	6	7	8	8	5	7	5	7	1	1
Continued Fever..	5	2	1	3	3	1	2	..	..	..	..	1	..	..	..	..	..	..	..	..
Puerperal Fever..	11	2	11	4	11	14	9	5	4	6	6	6	4	3	2	4	2	3	6	7
Measles	..	..	..	..	..	..	..	..	..	..	..	..	..	..	135	1082	668	235	..	..
Erysipelas	20	20	10	46	42	35	26	38	40	32	41	28	36	48	29	18	16	28	25	20
†Chickenpox	..	..	..	79	..	..	..	..	..	..	..	..	..	..	223	103	138	97	190	237
Poliomyelitis	..	..	..	..	..	..	..	..	..	..	2	..	1	..	..	..	..	..	1	..
Encephalitis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lethargica..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2
Ophthalmia	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Neonatorum..	..	..	..	..	..	..	..	..	..	..	1	4	15	15	22	21	6	11	12	14
†Pneumonia	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	149	53	45
†Malaria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	23	10	2
†Dysentery	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..
TOTALS....	444	383	403	450	215	156	202	500	670	357	208	408	373	281	577	1485	999	697	449	515

† Made notifiable on Mar. 29th, 1916.

‡ Made notifiable Mar. 1st, 1919.

Cases of Infectious Disease notified during the Year 1921.

Notifiable Disease.	Cases notified in whole District.								Total Cases notified in each locality.			No. of Cases Removed to Hospital from each locality			Total Cases Removed to Hospital
	At all Ages	At Ages—Years.							Registration Sub-District.			North.	South.	Elton.	
		Under 1	1 to 5	5 to 15	15 to 25	25 to 45	45 to 65	65 and upwards.	North.	South.	Elton.				
Smallpox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria (including Membranous Croup)	49	2	8	27	6	6	..	..	17	8	24	14	8	23	45
Erysipelas	20	..	..	6	6	4	8	2	7	6	7	..	..	..	..
Scarlet Fever	138	2	13	91	23	9	..	..	50	31	57	48	22	57	127
Typhus Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Enteric Fever	1	..	..	..	..	1	..	..	1	..	..	..	..	..	..
Relapsing Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Puerperal Fever	7	..	..	..	2	5	..	..	4	2	1	..	1	..	1
Encephalitis Letharg.	2	..	..	1	..	..	1	..	..	1	1	..	..	..	..
Poliomyelitis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ophthalmia	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Neonatorum	14	14	..	..	..	..	..	..	4	6	4	..	..	..	..
Measles	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chicken-pox	237	21	80	132	3	1	..	..	119	47	71	..	..	..	..
Pneumonia	45	5	11	10	6	6	4	3	16	23	6	..	..	..	..
Malaria	2	..	..	..	1	1	..	..	1	..	1	..	..	..	..
Dysentery	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
TOTALS	515	44	112	261	47	33	13	5	219	124	172	62	31	80	173

Number of Cases of Infectious Disease notified in each Month of the Year.

	Scarlet Fever.	Diphtheria & Membranous Croup.	Enteric Fever.	Puerperal Fever.	Erysipelas.	Poliomyelitis.	Chicken-pox.	Ophthalmia Neonatorum.	Encephalitis Lethargica.	Pneumonia.	Malaria.
January	8	4	..	..	1	..	18	1	..	4	..
February....	8	6	..	..	2	..	26	1	1	6	1
March	8	..	..	1	3	..	48	..	1	6	..
April	2	2	..	1	1	..	37	..	..	4	..
May	1	3	1	2	2	..	29	2	..	8	1
June	12	4	..	1	..	..	15	1	..	1	..
July	11	11	..	..	1	..	11	2	..	1	..
August	7	2	..	1	2	..	1	2	..	0	..
September ..	15	1	..	..	1	..	..	1	..	1	..
October	14	9	..	..	3	..	10	2	..	1	..
November ..	21	2	..	1	2	..	19	1	..	1	..
December ..	41	5	..	..	2	..	28	1	..	12	..
TOTALS....	138	49	1	7	20	..	237	14	2	45	4

WARD DISTRIBUTION OF INFECTIOUS DISEASES, 1921.

	Scarlet Fever.	Diphtheria & Membran- ous Croup.	Ent- eric Fever.	Puer- peral Fever.	Erysi- pelas.	Oph- thal. Neon- 'tor'm.	Polio- myeli- tis.	Chick- enpox.	Pneu- monia	Mal- aria.	Encep- halitis Leth- argica
Moorside	27	11	1	3	1	...	...	70	6	...	...
East.....	23	6	...	1	6	4	...	49	10	1	...
Church.....	15	3	...	1	5	3	...	17	12	...	...
Redvales.....	16	5	...	1	1	3	...	30	11	...	1
Elton	57	24	...	1	7	4	...	71	6	1	1
TOTALS.....	138	49	1	7	20	14	...	237	45	2	2

CASES REMOVED TO THE FLORENCE NIGHTINGALE HOSPITAL FROM
THE VARIOUS WARDS.

	Scarlet Fever.	Diphtheria & Membran- ous Croup.	Enteric Fever.	Continued Fever.	Puerperal Fever.	Poliomy- elitis.	Erysip- elas.	Measles.
Moorside ...	27	8	...	...	...	...	...	...
East	21	6	...	...	...	...	...	...
Church	14	3	...	...	...	...	...	...
Redvales	13	5	...	...	1	...	...	...
Elton	52	23	...	...	...	...	...	...
TOTALS.....	127	45	...	...	1	...	...	...

VENEREAL DISEASES.

On February 3rd, 1920, a Venereal Diseases Clinic was opened at the Tuberculosis Dispensary, The Wylde, Bury. The hours of attendance are :—

Tuesdays : 6-30 p.m. to 8-30 p.m. for females.

Fridays : 6-30 p.m. to 8-30 p.m. for males.

The work is carried out by a medical man with special experience in the work, and free treatment is available for all, whether resident in the Borough or not.

The following tables give full particulars of the work carried out at the clinic during the year 1921 :—

RETURN relating to all persons who were treated at the Treatment Ce
at Bury during the year ended the 31st December, 1921.

[illegible]

RETURN relating to VENEREAL DISEASES—Continued.

Examinations of Pathological material:—	For detection of			For Wassermann Reaction.
	Spirochetes.	Gonococci.	Other Organisms.	
a) Specimens which were examined at, and by the Medical Officer of, the Treatment Centre.	..	121	..	..
b) Specimens from persons attending at the Treatment Centre which were sent for examination to an approved laboratory.....	1	2	..	385

STATEMENT showing the services rendered at the Treatment Centre during the year, classified according to the areas in which the patients resided.

of County or County Borough (or Country in the case of persons residing elsewhere than in England and Wales) to be inserted in these headings.	Bury.	Lanc'shire C.C.	Colne.	Rochdale.	Manch'str	Preston.	Bolton.	Total.
Number of persons from each area dealt with during the year at or in connection with the out-patient Clinic for the first time and found to be suffering from :—								
Syphilis	62	53	1	1	1	1	..	119
Soft Chancre.....	2	2	..	..	..	..	..	4
Gonorrhœa	38	25	..	..	..	..	..	63
Conditions other than venereal.....	6	8	..	..	..	..	..	14
Total.....	108	88	1	1	1	1	..	200

total number of attendances at the out-patient Clinic of all patients residing in each area	1479	1452	6	4	11	1	3	2956
Aggregate number of "In-patient days" of all patients residing in each area.....	..	..	..	..	..	..	..	..
Number of doses of Salvarsan substitutes given in the :—	{ 1. Out-patient Clinic 2. In-patient Dept. to patients residing in each area }							567
	329	229	1	4	3	1	..	

ve the names of Salvarsan substitutes used in the treatment of syphilis and the usual initial and final doses ate 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. ate the nature of tests applied in deciding as to discharge of patients referred to in Item 5 on previous page	Novarsobillon and Neokhorswan, initial 0.45, final 0.6. (1) Eight intravenous injections of N.A.B. or N.K., 0.45, 0.6, 0.6, 0.6; rest 0.6, 0.6, 0.6, 0.6. In individual cases 0.3 or on the other hand 0.75, or 0.9 is given. (2) Each week grey powder gr. $\frac{1}{16}$ tds. As in Memo. V²¹, but no culture or complement fixation test is used.
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OPHTHALMIA NEONATORUM.

Fourteen cases of this disease were notified during the year, all being treated in their own homes. In eleven instances the vision was unimpaired. One case was blind in one eye, one case was almost blind in both eyes, and there was one death.

TUBERCULOUS DISEASES.

Pulmonary Tuberculosis caused 51 deaths, of which 47 had been notified by doctors. The rate of mortality was 0.88 per 1,000.

Thirteen deaths occurred from Non-Pulmonary Tuberculosis, twelve of which had been notified.

Institutional treatment is given to cases of Tuberculosis at the Tuberculosis Dispensary, at the two Institutions of the Bury and District Joint Hospital Board, viz. : The Aitken Sanatorium at Holcombe, near Ramsbottom, and the Ainsworth Sanatorium, near Bolton, the latter institution being closed in August and the patients transferred to the Aitken Sanatorium, at the Bury Infirmary, and at the Manchester and Salford Hospital for Skin Diseases.

The Aitken Sanatorium was opened in August, 1910, the Ainsworth Sanatorium on October 20th, 1913, and the Bury Tuberculosis Dispensary on October 15th, 1914.

THE TUBERCULOSIS DISPENSARY.

The Tuberculosis Dispensary is situated in the Wylde, Bury, and was formerly the Prince's Club. It is situated in the centre of the town quite close to the main tram routes and the railway stations. The building was kindly presented to the town by the Earl of Derby.

The two wards contain eight beds each, half of which number are, by arrangement with the Lancashire County Council, for the sole use of patients from outside the Borough.

The Out-Patient Department is used by the Lancashire County Council on certain half-days per week, when one of their Tuberculosis Officers is in attendance.

NON-PULMONARY TUBERCULOSIS.

An agreement was entered into between the Bury Corporation and the Bury Infirmary in July, 1920, under which cases of Non-Pulmonary Tuberculosis occurring in the Borough are treated at that Institution.

TUBERCULOSIS OF THE SKIN.

Arrangements were made, at the commencement of the year under review, with the Manchester and Salford Hospital for Skin Diseases, whereby patients from the Borough suffering from Tuberculosis of the Skin could attend and receive appropriate treatment. Under these arrangements twelve patients have been treated during the year.

The following table gives the number of patients treated and the number of patient days in the various institutions :—

	No. of Patients	No. of Days
Dispensary... ..	19	1306
Aitken Sanatorium	42	4236
Ainsworth Sanatorium	22	1736
Bury Infirmary	12	1176

PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1912.

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

AGE PERIODS.	NUMBER OF NOTIFICATIONS ON FORM A.												NUMBER OF NOTIFICATIONS ON FORM B.				No. OF NOTIFICA- TIONS ON FORM C.			
	PRIMARY NOTIFICATIONS.												PRIMARY NOTIFICATIONS.				Total notifi- cations (i.e., cases previously notified by other Doctors).		Poor Law Institu- tions.	Sanatoria
	Total notifi- cations (i.e., cases previously notified by other Doctors).												Total.							
	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 up- wards.	Total.	Under 5	5 to 10	10 to 15	Total.				
Pulmonary Males...	—	—	—	1	1	5	6	9	7	3	—	32	33	—	—	—	—	2	58	
„ Females	—	—	—	1	5	—	6	3	4	1	—	20	20	—	—	—	—	3	25	
Non-pulmonary Males...	—	4	4	3	4	1	—	1	1	1	—	19	21	—	—	1	1	—	5	
„ Females	—	1	5	4	3	3	1	1	3	—	—	21	22	—	—	1	1	—	19	

SMALLPOX.

No case of Smallpox occurred during the year; the last case notified in the Borough was on March 15th, 1916.

BACTERIOLOGICAL EXAMINATIONS.

The following are the particulars of the specimens examined during the year at the Public Health Laboratory, Manchester :—

	Positive	Negative	Total
Diphtheria... ..	13	37	50
Typhoid Fever	0	7	7
Sputum for Tuberculosis	18	40	58

ANTITOXIN.

Towards the end of the year 1910 sanction was obtained from the Council to supply the medical practitioners of the district with Antitoxin free, for patients suffering from Diphtheria within the Borough.

HOSPITAL ACCOMMODATION AND AMBULANCE FACILITIES.

Cases of infectious disease, including Smallpox, requiring removal are sent to the Hospitals under the control of the Bury and District Joint Hospital Board, viz. :—Florence Nightingale Hospital, Bury, for Infectious Diseases, and Ainsworth Hospital, near Bolton, for Smallpox, the Bury Infirmary and the Union Hospital, Bury.

The Bury and District Joint Hospital own two motor ambulances, which are used for the removal of cases of Infectious Disease, and patients suffering from Tuberculosis. The Bury Corporation own one motor ambulance, which is used for the removal of accident cases and cases of serious illness requiring hospital treatment.

NURSING FACILITIES.

The Bury Branch of Queen Victoria's Jubilee Institute for Nurses provides Nurses for the sick poor in their own homes. The Corporation have also made arrangements with the Institute for the nursing of cases of Measles and Ophthalmia Neonatorum where necessary.

FACTORIES, WORKSHOPS, LAUNDRIES, WORKPLACES, AND HOMEWORK.

1.—INSPECTION

Including inspections made by Sanitary Inspectors or Inspectors of Nuisances

Premises.	Number of		
	Inspections.	Written Notices.	Prosecutions.
Factories (including Factory Laundries).....	60	23	—
Workshops (including Workshop Laundries)	154	24	—
Workplaces (other than Outwork's Premises).....	39	17	—
Total.....	253	64	—

2.—DEFECTS FOUND.

Particulars.	Number of Defects.			Number of Prosecutions.
	Found.	Remedied.	Referred to H.M. Inspector	
<i>Nuisances under the Public Health Acts :—</i>				
Want of Cleanliness	4	4	..	..
Want of Ventilation	..	..	..	..
Overcrowding	..	..	..	..
Want of drainage of floors	..	..	..	..
Other Nuisances.....	41	38	..	..
Sanitary accommodation { Insufficient	6	6	..	..
{ Unsuitable or defective	18	18	..	..
{ Not separate for sexes	..	..	..	..
<i>Offences under the Factory and Workshop Act :—</i>				
Illegal occupation of underground bakehouse (S. 101)	..	..	..	..
Breach of special sanitary requirements for bakehouses (SS. 97 to 100)	..	..	..	..
Other offences (excluding offences relating to Outwork, which are included in part 3 of this report).....	5	5	..	..
Total	74	71	..	..

OTHER MATTERS.

Class.		Number.
Matters notified to H.M. Inspectors of Factories :—		
Failure to affix Abstract of the Factory & Workshop Act (S.133)		—
Action taken in matters referred by H.M. Inspectors as remediable under the Public Health Acts, but not under the Factory and Workshop Act (S. 5).	Notified by H.M. Inspector	10
	Reports (of action taken) sent to H.M. Inspectors.	8
Other		—
Underground Bakehouses (S. 101) :—		
Certificates granted during the year		—
In use at the end of the year		2
Homework :—		Number of
List of Outworkers (S. 107) :—		Lists. Outworkers.
Lists received :—Twice in the year		— —
Once in the year		3 24
Addresses of outworkers { forwarded to other Authorities. received from other Authorities		— —
Inspection of Outworkers' Premises		24
Homework in unwholesome or infected premises :—		Wearing Apparel. Other.
Notices prohibiting homework in unwholesome premises (S. 108)		— —
Cases of infectious disease notified in homeworkers' premises		— —
Orders prohibiting homework in infected premises (S. 110)		— —
Workshops on the Register (S. 131) at the end of the year 1921		
Important classes of work-shops, such as workshop bakehouses, may be enumerated here.	Bakehouses	110
	Blacksmiths... ..	13
	Brush Manufacturers	4
	Boot and Shoe Makers and Repairers	40
	Cloggers	24
	Cabinet Makers and Joiners	15
	Dress and Mantle Makers	19
	Wheelwrights	7
	Workplaces	25
	Marine Store Dealers & Metal Brokers	9
	Painters and Decorators	18
	Plumbers	16
	Saddlers	8
	Tailors	34
Milliners	40	
Other Trades		52
Total number of workshops on register		434

HOUSES LET-IN-LODGINGS.

(“Furnished Rooms.”)

The number of houses now on the register is 31. 149 rooms of these houses are let off as furnished apartments, giving accommodation for 343 adults and 61 children.

PETROLEUM ACTS.

Under these Acts three licences have been granted for the storage of benzine and benzoline, forty-seven for petrol, and sixteen for calcium carbide. In all cases the petrol is kept in metal vessels and drums in properly constructed stores. The stores for petrol are 10 underground tanks, fitted with pumps, 10 for storage in barrels, and 27 for storage in two gallon tins. The calcium carbide is kept in metal vessels with airtight lids, in dry places, generally in the shops and warehouses. In five cases the carbide is used for the generation of acetylene gas for welding purposes.

EXPLOSIVES ACTS.

Ninety-six persons were registered for the sale of explosives during the year as required by these Acts, being for the sale of fireworks or mixed explosives, &c. The sale of fireworks only lasts for about two or three weeks, i.e., the last week in October and the first and second weeks in November. During this period the shops were visited, and the fireworks were found to be stored with few exceptions in accordance with the regulations made, dummy fireworks being exposed in the windows. Gunpowder is sold by the ironmongers and locksmiths, and is kept in safes in small quantities.

CANAL BOAT ACTS, 1877 and 1884.

The work of the inspection of the canal boats is carried out by Inspector Kay. No boats registered under the above Acts visited the Wharf at Bury Bridge during the year. Seventeen visits were paid to the Wharf.

SMOKE OBSERVATIONS.

During the first 10 months of the year 143 smoke observations of 60 minutes' duration each, have been taken of the mill chimneys situated within the Borough. The aggregate amount of black smoke evolved was 363 minutes, which is equal to an average of 2.46 minutes for each observation. The time limit (five minutes in sixty) permitted by your Council has been exceeded in 12 instances by 12 firms, this being equal to 8.39 per cent. of the total observations taken, the aggregate amount of black smoke emitted by these firms being 122 minutes, which is equal to an average of 10 minutes and 10 seconds for each observation. The average amount of black smoke emitted by the chimneys under the limit was equal to 2.73 minutes.

During the remaining two months 72 observations of 30 minutes' duration each were taken (with a time limit of two minutes in thirty). This limit was exceeded in six instances by six firms. The aggregate amount of black smoke evolved was 82 minutes, which is equal to an average of 1.13 minutes per observation. The average amount of black smoke emitted by the chimneys under the limit was equal to 1.10 minutes.

DISINFECTION.

The following is a summary of the disinfection carried out during the year in the reported cases of Infectious Diseases :—

199 rooms in 167 houses were disinfected with the fumes of either sulphur or formaldehyde, and the walls of 420 rooms in 199 houses sprayed with a solution of either formalin or carbolic acid.

The desks, books, walls, &c., of seven public schools have been sprayed with a solution of formalin, the rooms afterwards being disinfected with the fumes of formaldehyde.

72 rooms in 43 houses have been disinfected with the fumes of formalin or sulphur, and the walls of 120 rooms in 43 houses sprayed with a solution of formalin, after the occurrence of deaths from or the removal of cases of Phthisis.

Eight parcels of infected clothing and 48 sets of infected bedding have been disinfected by steam.

MILK AND CREAM REGULATIONS, 1912 and 1917.

The following is a report made by Mr. Cass, Food and Drugs Inspector, with regard to the above Regulations, for the year 1921 :—

1. MILK AND CREAM not sold as preserved Cream.

	Number of samples examined for the presence of a preservative.	Number in which a preservative was reported to be present.
Milk	64	Nil.
Cream	0	Nil.

2. CREAM sold as preserved Cream :—None taken.

HOUSING.

Number of new houses erected during the year :—

(a) Total	28
(b) As part of a municipal housing scheme... ..	14

1. *Unfit dwelling-houses.*

Inspection—(1) Total number of dwelling-houses inspected for housing defects (under Public Health or Housing Acts)	118
(2) Number of dwelling-houses which were inspected and recorded under the Housing (Inspection of District) Regulations, 1910... ..	11
(3) Number of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation	1
(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	66

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	61
--	----

3. *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... ..	3
(2) Number of dwelling-houses which were rendered fit :—	
(a) by owners	3 (work in hand)
(b) by Local Authority in default of owners	<i>nil</i>
(3) Number of dwelling-houses in respect of which Closing Orders became operative in pursuance of declarations by owners of intention to close... ..	<i>nil</i>

B.—Proceedings under Public Health Acts.

(1) Number of dwelling-houses in respect of which notices were served requiring defects to be remedied	3
(2) Number of dwelling-houses in which defects were remedied :—	
(a) by owners	3
(b) by Local Authority in default of owners	<i>nil</i>

C.—Proceedings under Sections 17 and 18 of the Housing, Town Planning, &c., Act, 1909.

(1) Number of representations made with a view to the making of Closing Orders	<i>nil</i>
(2) Number of dwelling-houses in respect of which Closing Orders were made... ..	<i>nil</i>
(3) Number of dwelling-houses in respect of which Closing Orders were determined, the dwelling-houses having been rendered fit... ..	<i>nil</i>

C.—Proceedings under Sections 17 and 18 (Continued).

- | | |
|---|------------|
| (4) Number of dwelling-houses in respect of which
Demolition Orders were made | <i>nil</i> |
| (5) Number of dwelling-houses demolished in
pursuance of Demolition Orders | <i>nil</i> |
-

NUISANCES.

Number of Legal Notices served... ..	5
„ Preliminary Notices served	28
„ Letters in lieu of Notices	518
„ Verbal Notices	240
„ Letters sent other than Notices ...	233

SCAVENGING.

This work is carried out by the Cleansing Department, which has its own Superintendent, by whom a separate report is made.

MEAT INSPECTION.

RAILWAY CATTLE DOCKS.

The number of animals which arrived in the Borough during the past year is as follows :—

Beasts	Sheep and Lambs	Pigs	Calves
4245	25633	2502	6

ABATTOIRS.

During the past year the various animals, carcasses, &c., passing through the Public Abattoirs have been carefully examined, both before and after slaughter. The meat retailed in the Borough has been the usual high standard quality of normal times, but owing to various Government restrictions much more meat is imported into the town than formerly.

NUMBER OF ANIMALS SLAUGHTERED AT THE ABATTOIRS.

	Beasts	Sheep and Lambs	Pigs	Calves	Total.
January	400	1500	658	26	2584
February	499	1609	235	31	2374
March	535	1716	355	43	2649
April	389	1209	282	44	1924
May... ..	315	1123	239	52	1729
June	231	1162	214	18	1625
July... ..	154	1329	145	23	1651
August.,	224	2537	138	22	2921
September	372	2947	169	34	3522
October	237	1772	176	27	2212
November... ..	499	3362	335	103	4299
December... ..	595	3394	500	104	4593
Total, 1921 ...	4450	23660	3446	527	32083
Total, 1920 ...	4810	19549	3644	396	28399

During the year 70 carcasses required special examination, of which number 48 were affected with Tuberculosis in varying degrees. These consisted of 28 cows, 8 bullocks, 2 bulls, 1 heifer, and 9 pigs. Owing to the extent of the disease in 12 cows, 2 bullocks, 1 bull, 2 heifers, and 4 pigs, it was found necessary to condemn and destroy the entire carcasses.

It was also found necessary to condemn and destroy (for causes other than Tuberculosis) the entire carcasses of 20 sheep, 5 pigs, and 4 calves, this bringing the number of entire carcasses destroyed to 50.

The following organs were also destroyed, viz. :—Beasts : 50 lungs, 41 hearts, 48 livers, 18 kidneys, 20 melts, 26 bellies, 22 skirts, and 19 udders. Sheep : 27 heads, 12 lungs, 32 hearts, and 51 livers. Pigs : 9 lungs, 9 hearts, and 9 livers.

The following were submitted to the Meat Inspector for examination, or were discovered by him in the course of routine inspection outside the Abattoirs, all of which were subsequently surrendered and destroyed :—2 hindquarters and 6 forequarters of beef, 3 boxes corned beef, 302 rabbits, 1 box cod, and 3 boxes haddock.

The total amount destroyed during the year was 9,983-lbs.

On two occasions the Meat Inspector has been called to inspect carcasses slaughtered in emergency upon farms in the Borough. In each case slaughter had been performed sufficiently early to enable the carcasses being passed as fit for food.

During the year the butchers' shops, fish shops, &c., have been constantly kept under supervision, regular and frequent visits having been paid to the same; the meat, fish, &c., coming under observation having, with several exceptions, been satisfactory.

F A R M S.

There are 63 registered farms within the Borough, this number being the same as last year. 130 visits have been made during the year, and the farm buildings on the whole are in a good sanitary condition.

OFFENSIVE TRADES.

129 visits have been paid to the various offensive trade establishments in the Borough. The offensive trades as a whole are carried on with a minimum of nuisance.

BAKEHOUSES.

The bakehouses have been kept under observation, and have been carried on in a satisfactory manner, the total number in the Borough now being

- 1 Factory Bakehouse.
- 2 Wholesale Bakehouses.
- 2 Cellar Bakehouses.
- 41 Special Bakehouses.
- 40 Scullery Bakehouses.
- 5 Kitchen Bakehouses.

ICE CREAM AND MILK SHOPS.

These have been regularly visited during the year, and no complaints have to be recorded.

KNACKER'S YARD.

142 visits have been paid to the knacker's yard, and there have been no complaints.

SUMMARY OF VISITS OF THE HEALTH VISITORS.

- 1089 visits to houses where births have been registered.
- 2534 re-visits to children under one year of age.
- 4549 „ „ over one and under five years.
- 187 visits to expectant mothers.
- 258 re-visits „ „
- 93 visits to houses in which deaths in infants under one year of age have occurred.
- 2853 re-visits to babies during the summer diarrhoea season.
- 276 visits to Mothers' Welcome.
- 604 visits to homes in which cases of suspected Measles, Whooping Cough, Ringworm, &c., existed.
- 86 visits to houses in which cases of Tuberculosis have been notified.
- 1952 re-visits „ „ „ „ „ „ „
- 237 visits to houses in which cases of Chicken-pox have been notified.
- 26 re-visits „ „ „ „ „ „ „
- 14 visits to cases of Ophthalmia Neonatorum.
- 22 re-visits „ „ „ „
- 7 visits to cases of Puerperal Fever.
- 3 re-visits „ „ „
- 55 visits to Midwives.
- 27 visits to homes of outworkers.
- 515 visits re applications for free milk.
- 73 „ „ maternity grant.
- 43 „ to houses for disinfection.
- 116 miscellaneous visits.

SUMMARY OF VISITS OF THE SANITARY INSPECTORS.

Infectious and contagious diseases	386
Common lodging-houses	500
Houses let in lodgings	642
Factories and Workshops	253
Canal boats (wharf)	15
Public Buildings	6
Re Premises to cleanse and repair	604
„ Houses damp	17
„ „ overcrowded... ..	2
„ „ insufficient water supply... ..	14
„ „ defective water pipes and fittings	19
„ Flooded cellars	60
„ Defective rain-water spouts and eaves-gutters.	296
„ Drains choked, dilapidated, and untrapped	751
„ Testing drains and fittings	2
„ Defective waste pipes	19
„ Water closets	678
„ Urinals	2
„ Privy middens and ashpits	907
„ Manure	16
„ Accumulation of refuse... ..	53
„ Animals kept as to be a nuisance	34
„ Defective and foul yard pavements	6
„ Defective chimney flues	6
„ Premises infested by rats	19
„ Effluvium nuisance	2
„ Inspections under the Rent, &c., Acts	14
„ Housing, Town Planning, &c., Acts	23
„ Poisons and Pharmacy Acts... ..	6
„ Petroleum Acts (petrol stores, &c.)	151
„ Explosives Acts	72
„ Work in progress	140
„ Appointments and nuisances of a general character	709

ANNUAL REPORT OF THE BOROUGH ANALYST.

ANALYTICAL LABORATORIES,

54, ARCADE CHAMBERS, ST. MARY'S GATE,

MANCHESTER,

March 21st, 1922.

*To the Chairman and Members of the Health Committee
of the Corporation of Bury.*

GENTLEMEN,

I have to report that during the year ended December 31st, 1921, Inspector Cass submitted to me 65 samples, consisting of one sample of butter and 64 samples of milk. The sample of butter was informally and the samples of milk formally taken. On analysis the sample of butter was found to be genuine, and 57 of the samples of milk were found to be genuine also.

Seven were found to be either adulterated or otherwise not in accordance with standard.

The vendors of these samples were prosecuted, and convictions were obtained in each case.

Sample No. 343, containing 21.90 per cent. added water.—

£10 and fee.

„ „ 349, 13.34 abstracted fat.—£15.

„ „ 350, 12.34 abstracted fat.—£15.

„ „ 383, 16.00 per cent. added water.—£5 and fees.

„ „ 384, 19.42 per cent. added water.—£2 10s. and fees.

„ „ 389, 11.20 per cent. added water.—£2 10s. and fees.

„ „ 390, 13.50 per cent. added water.—£2 10s. and fees.

The percentage of adulteration was 10.77.

The general quality of the milk samples was fairly good, and they were all clean and free from any kind of preservative.

Yours faithfully,

(Signed) THOS. J. HUTCHINSON,

Borough Analyst.

Type of Nuisance dealt with.

1917.

1918.

1919.

	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
Damp, due to being built against an embankment.....	2	5	5	2	1	3	6	3	3	1	3	7	3	3	1	5	1	1	1	1	1	1	1	1	1
Damp walls, built without dampproof course or defective.....	14	14	15	2	1	18	20	21	3	1	17	18	22	1	1	14	17	18	22	3	1	14	17	22	1
Damp walls, without cavities.....	10	15	15	2	1	26	27	24	3	1	31	31	28	3	1	31	31	28	28	3	1	31	31	28	1
Damp, due to defective eaves gutters and spouts.....	45	52	51	2	1	39	59	61	1	1	48	59	58	1	1	48	59	58	58	1	1	48	59	58	1
Premises to cleanse.....	2	2	2	2	1	1	1	1	1	1	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2
" " overcrowded.....	18	18	18	3	1	9	9	9	1	1	9	9	9	1	1	9	9	9	9	1	1	9	9	9	1
Defective gas pipes or fittings in houses.....	3	3	3	4	1	4	4	4	1	1	4	4	4	1	1	4	4	4	4	1	1	4	4	4	1
" " chimney flues in houses.....	4	4	4	4	1	4	4	4	1	1	4	4	4	1	1	4	4	4	4	1	1	4	4	4	1
Animals kept as to be a nuisance.....	23	33	35	5	1	27	28	30	1	1	31	31	27	8	2	31	31	27	27	9	9	31	31	27	9
Accumulation of refuse.....	4	4	4	1	1	13	13	13	1	1	13	13	13	1	1	13	13	13	13	1	1	13	13	13	1
Defective yard surface.....	4	4	4	1	1	7	7	7	1	1	7	7	7	1	1	7	7	7	7	1	1	7	7	7	1
Foul.....	9	9	9	2	1	19	19	17	2	2	20	22	22	2	2	20	22	22	22	2	2	20	22	22	2
Dangerous places, cellar areas, fences, &c.....	9	9	9	2	1	62	62	62	2	2	62	62	62	2	2	62	62	62	62	2	2	62	62	62	2
Choked street grids.....	3	3	3	3	1	13	13	14	6	6	13	13	14	6	6	13	13	14	14	6	6	13	13	14	6
" " cellar drains.....	6	6	6	14	1	18	18	18	1	1	18	18	18	1	1	18	18	18	18	1	1	18	18	18	1
" " passage drains.....	71	74	75	3	1	88	93	93	3	3	88	93	93	3	3	88	93	93	93	3	3	88	93	93	3
" " yard drains.....	37	63	86	2	1	57	138	172	7	7	57	138	172	7	7	57	138	172	107	4	4	57	138	172	4
" " water closet drains.....	26	29	32	2	1	56	49	64	2	2	56	49	64	2	2	56	49	64	56	3	3	56	49	64	3
" " waste water closet drains.....	28	32	38	2	1	44	36	47	2	2	44	36	47	2	2	44	36	47	49	3	3	44	36	47	3
" " rainwater spout drains.....	21	25	26	2	2	17	21	27	1	1	17	21	27	1	1	17	21	27	29	3	3	17	21	27	3
Defective drains.....	8	8	4	4	2	2	2	1	1	1	2	2	1	1	2	2	2	1	5	5	5	2	2	1	5
Insufficient drains.....	5	6	4	2	2	3	3	2	2	2	3	3	2	2	2	3	3	2	2	2	2	3	3	2	2
Drains inside premises.....	11	12	12	2	2	20	22	21	1	1	20	22	21	1	1	20	22	21	11	1	1	20	22	21	1
Insanitary traps connected to drains.....	37	51	46	1	1	39	43	40	3	3	39	43	40	3	3	39	43	40	84	2	2	39	43	40	2
Defective waste pipes.....	39	42	46	1	1	34	34	36	3	3	34	34	36	3	3	34	34	36	48	2	2	39	43	40	2
" " fittings, sinks and basins.....	5	5	5	2	2	9	9	9	7	7	9	9	9	7	7	9	9	9	6	6	6	9	9	9	6
" " rainwater spouts.....	10	11	10	8	2	33	41	40	2	2	33	41	40	2	2	33	41	40	41	3	3	33	41	40	3
Premises without spouts or gutters.....	34	45	56	3	3	4	9	16	3	3	4	9	16	3	3	4	9	16	29	3	3	4	9	16	3
Premises with an insufficient closet accommodation.....	14	15	19	3	1	21	22	37	2	2	21	22	37	2	2	21	22	37	37	1	1	21	22	37	1
Closets structurally defective.....	20	28	46	1	1	49	59	157	1	1	49	59	157	1	1	49	59	157	11	1	1	49	59	157	1
Closets dirty and foul approaches.....	24	36	66	2	2	12	18	15	2	2	12	18	15	2	2	12	18	15	11	3	3	12	18	15	3
Water closet cisterns out of order.....	9	9	12	1	1	9	9	9	1	1	9	9	9	1	1	9	9	9	41	1	1	9	9	9	1
" " water pipe burst.....	2	2	2	1	1	3	6	5	1	1	3	6	5	1	1	3	6	5	3	1	1	3	6	5	1
" " without a water supply.....	2	2	2	1	1	3	6	5	1	1	3	6	5	1	1	3	6	5	3	1	1	3	6	5	1
" " defective pedestal.....	2	2	2	1	1	3	6	5	1	1	3	6	5	1	1	3	6	5	3	1	1	3	6	5	1
" " defective flush pipes.....	2	2	2	1	1	3	6	5	1	1	3	6	5	1	1	3	6	5	3	1	1	3	6	5	1
" " defective soil pipes.....	2	2	2	1	1	3	6	5	1	1	3	6	5	1	1	3	6	5	3	1	1	3	6	5	1
" " defective vent pipes.....	2	2	2	1	1	3	6	5	1	1	3	6	5	1	1	3	6	5	3	1	1	3	6	5	1
" " insanitary troughs.....	16	16	16	1	1	38	39	42	1	1	38	39	42	1	1	38	39	42	69	1	1	38	39	42	1
" " insufficiently lighted and ventilated.....	11	23	12	1	1	23	51	29	1	1	23	51	29	1	1	23	51	29	84	1	1	23	51	29	1
Waste water closet tippers out of order.....	9	9	9	1	1	7	11	17	1	1	7	11	17	1	1	7	11	17	42	1	1	7	11	17	1
Insanitary Water Closets.....	31	36	82	1	1	28	32	76	1	1	28	32	76	1	1	28	32	76	68	1	1	28	32	76	1
Offensive privy closets and middens.....	22	25	48	1	1	44	51	121	1	1	44	51	121	1	1	44	51	121	28	1	1	44	51	121	1
Defective privy closets.....	3	3	3	1	1	13	26	50	1	1	13	26	50	1	1	13	26	50	29	1	1	13	26	50	1
Insufficient ashpits.....	11	11	11	1	1	23	24	28	1	1	23	24	28	1	1	23	24	28	46	1	1	23	24	28	1
Ashpits without proper doors.....	9	9	9	1	1	7	11	17	1	1	7	11	17	1	1	7	11	17	42	1	1	7	11	17	1
Asphalt doors without proper fastenings.....	31	36	82	1	1	28	32	76	1	1	28	32	76	1	1	28	32	76	68	1	1	28	32	76	1
Asphalt to cleanse.....	22	25	48	1	1	44	51	121	1	1	44	51	121	1	1	44	51	121	28	1	1	44	51	121	1
Breach of Bye-Laws or Factory Acts.....	3	3	3	1	1	13	26	50	1	1	13	26	50	1	1	13	26	50	29	1	1	13	26	50	1
Miscellaneous.....	3	3	3	1	1	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6

A—No. of Notices. B—No. of dwellings affected. C—No. of nuisances. D—No. of factories and workshops affected. E—No. of other premises affected.

TABLE II.

Table showing the Comparative Numbers of Sanitary Conveniences in the Borough in the Years
1902, 1915, 1916, 1917, 1918, 1919, 1920, 1921.

	1902	1915	1916	1917	1918	1919	1920	1921
Number of privies	5458	2875	2769	2727	2716	2673	2670	2657
Number of ashpits in connection with privies ...	2867	1606	1575	1564	1563	1548	1515	1502
Number of pails	795	378	347	346	344	328	322	320
Number of dry ashpits in connection with pails ...	397	234	228	228	227	224	218	218
Number of mill tanks	44	16	15	15	12	11	10	4
Number of fresh water closets	1909	5922	6104	6176	6208	6287	6411	6499
Number of waste water closets	1569	2687	2686	2684	2680	2676	2668	2664
Number of dry ashpits in connection with water closets	1042	2291	2314	2324	2324	2336	2367	2372
Number of bins in connection with water closets	374	1647	1725	1753	1753	1782	1795	1814

TABLE III.—Nuisances Abated and Sanitary Improvements Effected in connection with Dwelling-houses, and other Premises.

	1916	1917	1918	1919	1920	1921
Privy closets converted to fresh-water closets	106	42	11	43	70	28
Pail closets converted to fresh-water closets	31	1	2	16	6	2
Additional fresh-water closets provided—Outside	15	12	6	4	5	8
" " " Inside	30	17	13	16	35	22
Waste-water closets replaced by fresh-water closets	1	2	4	4	8	4
Trough " " " "	2	—	3	5	—	—
Total number of fresh-water closets fixed in connection with old property	185	74	39	88	124	59
Privy middens altered and converted to dry ashpits... ..	33	11	0	12	28	4
" " " ashbins	31	11	1	15	6	9
Dry Ashpits " " ashbins	6	0	1	3	3	5
Number of ashbins provided (galvanised iron) fixed	21	8	0	4	3	10
" " " " portable	57	20	0	25	10	14
Number of cesspools cleared out	1	0	3	1	1	—
Number of dry ashpits provided	23	10	0	12	31	5

TABLE IV.
THE BURY AND DISTRICT JOINT WATER BOARD.
RAINFALL AT WORKSHOP YARD, PARSONS LANE.

	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921
January..	3.65	1.82	2.09	3.48	5.88	6.72	3.34	3.45	3.29	3.56	2.13	5.39	2.22	4.26	2.86	5.65	1.59	4.87	4.95	2.98	6.22	3.47	3.63	3.79	5.35	5.02	7.37
February	0.50	2.19	2.67	3.84	1.66	3.80	1.84	1.94	3.87	3.86	2.43	3.71	2.74	3.87	2.67	4.27	5.02	1.71	1.73	2.64	5.04	4.75	1.53	5.87	1.19	4.75	0.50
March ..	3.70	5.37	4.14	2.14	2.73	0.68	2.28	2.48	4.72	2.57	3.44	3.51	3.82	3.37	3.39	0.88	2.11	6.46	5.02	5.93	1.89	2.37	2.99	2.13	7.06	3.74	3.64
April	1.76	1.61	2.91	2.15	3.90	2.54	2.57	2.37	2.21	2.64	3.20	2.27	1.85	2.50	3.63	2.71	2.93	1.00	4.96	1.96	1.83	3.59	1.88	1.04	2.59	5.01	1.70
May	0.83	0.41	2.07	4.19	3.18	1.79	0.88	3.00	4.50	2.56	0.52	3.60	4.38	3.16	2.35	3.30	2.46	3.13	3.39	2.55	1.53	2.78	1.58	3.13	2.11	7.22	2.67
June	2.06	2.54	4.74	2.93	1.69	3.57	1.95	1.28	1.66	1.29	3.53	1.97	7.62	2.02	2.69	3.31	3.04	5.95	2.58	1.56	2.75	3.13	2.40	1.87	1.67	3.16	0.44
July	5.33	2.64	1.76	0.56	2.07	2.73	1.56	2.88	3.81	1.86	2.36	1.96	2.81	5.02	6.83	4.14	0.22	5.34	1.17	4.89	4.51	2.02	2.31	3.98	2.07	8.17	1.89
August ..	4.54	2.85	3.97	7.50	1.42	6.76	2.49	3.16	5.36	4.85	5.10	4.75	4.46	3.45	3.24	6.05	2.47	7.58	2.98	3.46	5.62	3.30	6.64	3.64	3.87	2.73	6.07
September	1.81	9.43	4.30	1.37	6.19	1.53	1.70	1.80	5.42	1.45	2.70	1.57	1.20	3.93	2.65	0.21	4.03	1.76	2.06	4.77	0.61	2.78	2.48	12.53	1.88	3.02	1.47
October..	4.07	4.39	2.30	4.37	3.19	6.19	2.82	4.67	9.24	2.38	3.54	7.08	4.09	1.83	5.68	3.58	3.74	5.50	2.01	2.74	1.95	8.52	9.17	4.39	2.76	1.66	2.83
November	3.74	1.49	5.14	3.26	1.48	3.73	6.01	2.39	3.90	4.20	4.49	3.59	3.56	3.03	1.52	5.43	4.50	3.57	5.05	5.90	2.31	3.10	5.35	2.87	3.74	1.97	3.17
December	5.04	5.97	5.43	4.33	3.21	5.50	3.18	3.48	2.06	3.08	0.69	5.01	4.24	3.12	8.01	4.33	7.25	5.34	2.90	6.49	8.36	3.34	2.41	10.10	7.05	3.86	7.10
TOTAL	37.03	40.71	41.52	40.12	36.60	45.54	30.62	32.90	50.04	34.30	34.13	44.41	42.99	39.56	45.52	43.86	39.36	52.21	38.80	45.87	42.62	43.15	42.37	55.34	41.34	50.31	38.85

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