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# REPORT

ON THE

Health of the County Borough of Belfast

FOR THE YEAR 1923.

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BY

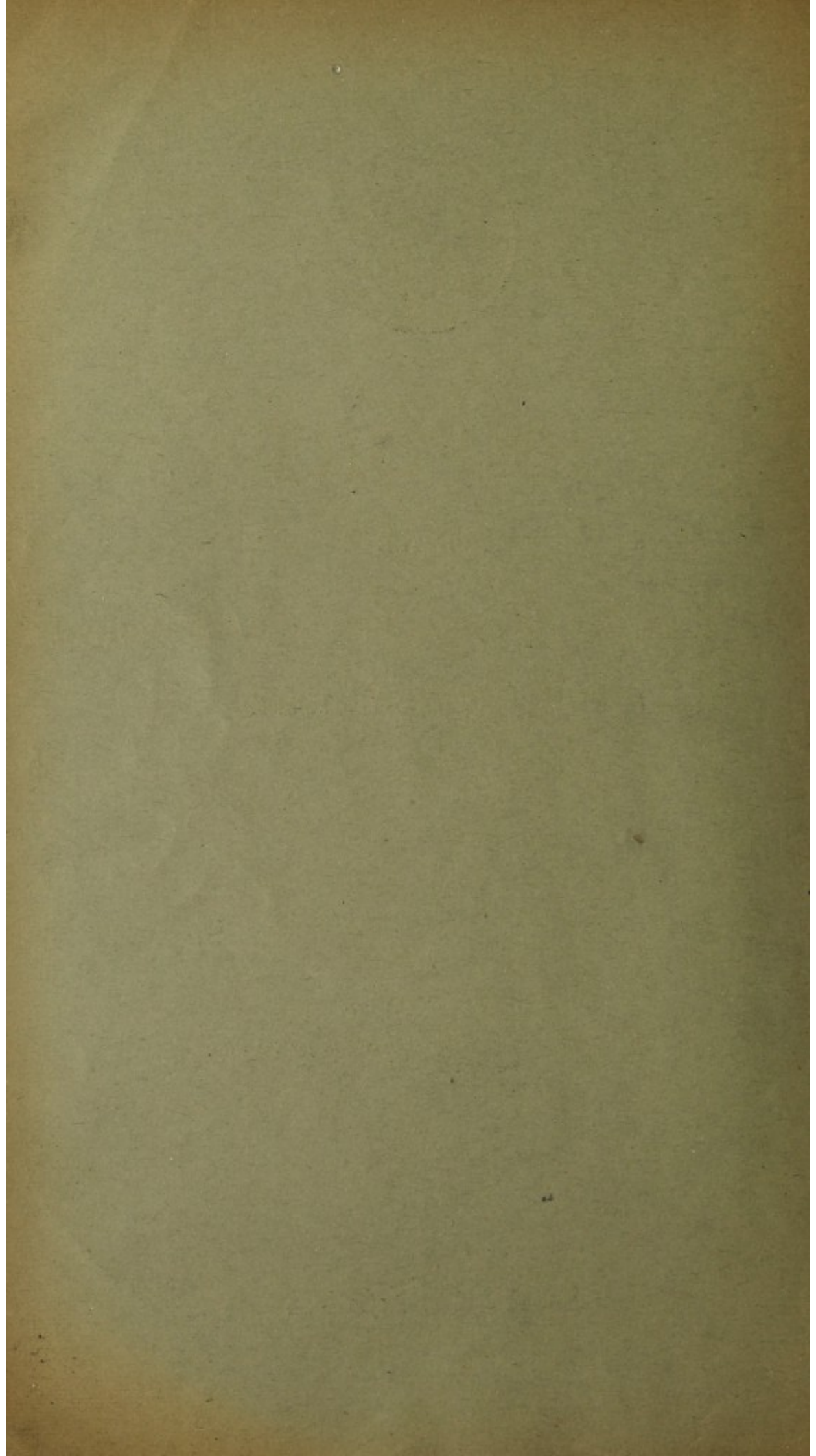
**H. W. BAILIE,**

*Medical Superintendent Officer of Health for the City.*

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Belfast :

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# REPORT

ON THE

**Health of the County Borough of Belfast**

**FOR THE YEAR 1923.**

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**H. W. BAILIE,**

*Medical Superintendent Officer of Health for the City.*

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**County Borough of Belfast.**

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**PUBLIC HEALTH COMMITTEE,  
1923.**

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**Chairman :**

COUNCILLOR T. ENGLISH.

**Vice-Chairman :**

COUNCILLOR W. C. BICKERSTAFF.

**Aldermen :**

GRAHAM.  
LORD LONDONDERRY.  
M'MORDIE.  
DR. WILLIAMSON.

**Councillors :**

BICKERSTAFF.  
ENGLISH.  
DICKSON.  
JAMISON.  
HENDERSON.  
KELLY.

KENNEDY.  
M'COMB.  
M'DONALD.  
M'KEOWN.  
THOMPSON.

# STAFF

(1st January)

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Executive Sanitary Officer:

GEORGE WARD, M.R.S.I.

- 1 Chief Clerk
- 1 Clerk, Notification of Deaths, etc.
- 2 Clerks, Infectious Disease
- 6 Clerks of Divisions
- 2 Clerks under Maternity and Child Welfare Scheme
- 2 Shorthand Writers and Typists
- 4 Divisional Inspectors
- 3 Inspectors under the Sale of Food and Drugs Acts
- 2 Inspectors under the Factory and Workshop Act (females)
- 1 Inspector of Dairies and Cowsheds
- 1 Inspector of Milkshops
- 1 Port Sanitary Inspector
- 1 Inspector in Charge of Infectious Disease Staff
- 5 Assistant Disinfectors (including one qualified Inspector and one temporary Inspector at Disinfecting Station)
- 16 District Inspectors
- 3 Drain Testers
- 4 Drain Testers' Assistants
- 7 Female Inspectors engaged as Health Visitors (including two temporary Inspectors)
- 7 Do. do. under Maternity and Child Welfare Scheme
- 1 Do. do. as Superintendent of Midwives
- 1 Notice and Summons Server
- 1 Messenger and Time Clerk
- 3 Employed at Disinfecting Station (2 males and 1 female)
- 1 Disinfectant Storeman

Owing to a re-arrangement in the Staff caused by the resignation of two Officers, the positions of Male Inspector under the F. & W. Act and of Inspector of Lodging Houses were vacant on 1st January.

# Summary

OF

## VITAL STATISTICS.

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Area in Statute Acres (Census 1911)	..		Land,	14,804
			Water,	335
				15,139
*Population	..	..	..	429,000
Density	..	..	..	29.0 persons to an acre.
Births	..	..	..	10,746
Birth Rate	..	..	..	25.0
Deaths	..	..	..	5,910
Death Rate	..	..	..	13.8
Infantile Mortality	..	..	..	1,089 deaths under 1 year or 101 per 1,000 births.
Deaths from Zymotic Diseases	..	..	..	518
Death Rate	do.	..	..	1.2
Deaths from Phthisis	..	..	..	571
Death Rate	do.	..	..	1.3
Total deaths from Chest Affections	..	..	..	1,708
Death Rate	do.	do.	..	4.0

\* As estimated by the Registrar-General to the middle of the year

To the Lord Mayor and Corporation of the County Borough of Belfast,

MY LORD MAYOR, LADIES AND GENTLEMEN,

I have the honour to submit to you my eighteenth Annual Report on the Health of the County Borough of Belfast and the Administration of the Public Health Department.

The period included in the report is from the 1st January till the 29th December, 1923, with the exception of the portions dealing with Meat Inspection and Venereal Diseases which are for the year ended 31st March, 1924.

The population, as estimated by the Registrar-General to the middle of the year, was 429,000, an increase of 4,000 compared with the year 1922.

As will be seen from the statistics throughout the report there was a decided improvement in the health of the City compared with preceding years.

The birth rate for the year was 25.0, a decrease of 0.1 compared with the preceding year when the rate was 25.1.

The death rate from All Causes was 13.8 per 1,000 of the population, a decrease of 1.0 compared with the year 1922 and of 3.8 compared with the average rate for the ten preceding years. This is the lowest death rate ever recorded for the City.

Of the total deaths registered 518 were caused by Zymotic Diseases, equivalent to 1.2 per 1,000 of the population, an increase of 0.6 per 1,000 compared with the preceding year when the number registered was 264 and the rate 0.6 per 1,000. The increase was due to Measles and Whooping Cough, non-notifiable diseases. During the year 308 deaths were caused by these diseases compared with 49 for the year 1922.

There was a further reduction in the number of deaths caused by Typhoid Fever. Only 4 deaths were registered during the year as having been caused by this disease compared with 7 in 1922, 15 in 1921, and 34 in 1920.

There was a decrease of 0.2 per 1,000 of the population in the death rate from Phthisis and of 0.4 in the total deaths from Chest Affections.

101 deaths of children under one year old per 1,000 births were registered during the year. This is an increase of 7 per 1,000 compared with the preceding year.

The number of cases of Infectious Diseases notified under the Infectious Disease (Notification) Act was 1,464. The number notified in the year 1922 was 1,470, and the average number notified annually during the ten years 1913-1922 was 2,077.

A greater number of mothers and expectant mothers took advantage of the benefits of the Maternity and Child Welfare Scheme, as shown by the increase during the year in the number of those attending the Child Welfare Centres.

I have pleasure in acknowledging the loyalty of and the efficient services rendered by every member of the staff from the Executive Sanitary Officer (Mr. Geo. Ward) to the most junior official.

I am, my Lord Mayor, Ladies and Gentlemen,

Your obedient Servant,

H. W. BAILIE,

*Medical Superintendent Officer of Health.*



## POPULATION.

The population, as estimated by the Registrar-General to the middle of the year, was 429,000, an increase of 4,000 compared with the preceding year, and upon this estimate the various rates have been calculated.

## BIRTHS.

10,746 births were registered during the year, equivalent to a birth rate of 25.0 per 1,000 of the population. This is a decrease of 0.1 per 1,000, compared with the preceding year, when the number registered was 10,667 and the rate 25.1.

The average number registered annually during the ten years 1913-1922 was 10,426, and the average annual birth rate 25.7.

The following shews the number of births, the percentage of the total number registered during the year, and the birth rate per 1,000 of the population in each of the four quarters of the year :—

	No. of Births.	Percentage of Total No.	Birth Rate.
First Quarter .. ..	2,657	24.7	24.8
Second Quarter .. ..	2,869	26.7	26.8
Third Quarter .. ..	2,754	25.6	25.7
Fourth Quarter .. ..	2,466	22.9	23.0

Table No. 4 shews the number of births in each of the several Dispensary Districts.

## DEATHS.

5,910 deaths were registered from all causes during the year, equivalent to a death rate of 13.8 per 1,000 of the population, a decrease of 1.0 per 1,000 compared with the preceding year, when the number registered was 6,304 and the rate 14.8.

The average number registered annually during the ten years 1913-1922 was 7,117, and the average annual death rate 17.6.

The following shews the number of deaths, the percentage of the total number registered during the year, and the death rate per 1,000 of the population in each of the four quarters of the year —

	No. of Deaths.	Percentage of Total No.	Death Rate.
First Quarter .. ..	1,556	26.3	14.5
Second Quarter .. ..	1,630	27.6	15.2
Third Quarter .. ..	1,251	21.2	11.7
Fourth Quarter .. ..	1,473	24.9	13.7

TABLE No. 1.

Shewing the number of deaths, the percentage of the total number registered, and the death rate per 1,000 of the population at various age periods, compared with the year 1922.

	No. of Deaths	1923.		No. of Deaths	1922.	
		Percentage of total Deaths Registered	Death Rate per 1,000 of the population		Percentage of total Deaths Registered	Death Rate per 1,000 of the population
Under 1 year .. ..	1,089	18.4	2.5	998	15.8	2.3
1 year and under 5 years	636	10.8	1.5	457	7.2	1.1
5 and under 25 years ..	539	9.1	1.3	683	10.8	1.6
25 and under 45 years ..	791	13.4	1.8	1,032	16.4	2.4
45 and under 65 years ..	1,394	23.6	3.3	1,553	24.6	3.7
65 years and upwards ..	1,461	24.7	3.4	1,581	25.1	3.7

TABLE No. 2.

Shewing the number of deaths from various causes, together with the death rate per 1,000 of the population, and the percentage of the total number registered.

Cause of Death	No. of Deaths	1923.		No. of Deaths	1922.	
		Percentage of total Deaths Registered	Death Rate per 1,000 of the population		Percentage of total Deaths Registered	Death Rate per 1,000 of the population
Typhoid Fever .. ..	4	0.07	0.01	7	0.11	0.02
Typhus Fever .. ..	—	—	—	—	—	—
Smallpox .. ..	—	—	—	—	—	—
Measles .. ..	126	2.13	0.29	33	0.52	0.08
Scarlet Fever .. ..	26	0.44	0.06	12	0.19	0.03
Whooping Cough .. ..	182	3.08	0.42	16	0.25	0.04
Diphtheria .. ..	24	0.41	0.06	43	0.68	0.1
Dysentery .. ..	2	0.03	0.005	1	0.02	0.002
Influenza .. ..	100	1.69	0.23	241	3.82	0.57
Diarrhœa—						
Under 2 years of age	130	2.20	0.3	127	2.01	0.3
2 years of age and upwards	24	0.41	0.1	25	0.40	0.06
Total Diarrhœa	154	2.61	0.4	152	2.41	0.36
Tuberculous Diseases—						
Phthisis .. ..	571	9.66	1.3	624	9.90	1.5
Other Forms .. ..	166	2.81	0.4	154	2.44	0.4
Total Tuberculous Diseases	737	12.47	1.7	778	12.34	1.9
Diseases of the Respiratory System—						
Pneumonia .. ..	564	9.54	1.3	594	9.42	1.4
Other .. ..	573	9.70	1.3	648	10.28	1.5
Total Dis. Resp. System	1,137	19.24	2.6	1,242	19.70	2.9
Total Chest Affections ..	1,708	28.90	4.0	1,866	29.6	4.4
Cancer .. ..	391	6.62	0.9	363	5.76	0.9
Violence .. ..	115	1.95	0.3	484	7.68	1.1

TABLE No. 3.

Shewing the annual death rate per 1,000 of the population from all causes during the twenty years 1904-1923; also the average rate for quinquennial periods.

Year.	Rate.	Year.	Rate.
1904	20.8	1914	18.9
1905	20.0	1915	17.9
1906	20.1	1916	16.7
1907	21.3	1917	16.7
1908	19.5	1918	22.7
1909	18.2	1919	17.9
1910	18.6	1920	17.5
1911	17.2	1921	14.4
1912	18.1	1922	14.8
1913	18.8	1923	13.8

1904-1908: 20.3  
 1909-1913: 18.2  
 1914-1918: 18.6  
 1919-1923: 15.7

TABLE No. 4.

Shewing the number of Births registered in each of the several Dispensary Districts, also the number of deaths of Infants under 1 year old.

DISTRICT No.	BIRTHS				DEATHS
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Under 1 Year
1	117	118	117	136	55
2	308	327	349	307	129
3	345	364	348	332	123
4	181	237	202	171	121
5	116	135	145	120	85
6	228	225	224	171	50
7	20	9	16	6	4
8	40	27	42	36	10
9	190	198	177	128	72
10	186	253	221	203	93
11	226	278	243	232	58
12	187	202	184	178	98
13	119	130	120	107	33
14	3	2	1	..	1
15	205	214	196	184	92
16	186	150	169	155	65
Total	2,657	2,869	2,754	2,466	1,089

TABLE No. 5.

Shewing the Population, the number of Births, the Birth Rate per 1,000, the number of Deaths, the Death Rate per 1,000, and the natural increase during the forty-three years 1881-1923.

Year.	Population	No. of Births	Birth Rate per 1,000	No. of Deaths	Death Rate per 1,000	Natural Increase
1881	207,671	6,942	33.4	4,911	23.6	2,031
1882	207,671	6,820	32.8	5,365	25.8	1,455
1883	214,022	6,694	31.3	5,600	26.2	1,094
1884	216,622	7,231	33.4	5,073	23.4	2,158
1885	219,222	7,161	32.7	6,127	27.9	1,034
1886	221,822	7,344	33.1	5,256	23.7	2,088
1887	224,422	7,502	33.5	5,807	25.9	1,695
1888	227,022	7,719	34.0	5,742	25.3	1,977
1889	229,622	7,705	33.6	5,921	25.8	1,784
1890	232,222	8,250	35.5	6,861	29.5	1,389
1891	255,922	8,650	33.8	6,537	25.5	2,113
1892	261,046	8,592	32.9	6,910	26.5	2,166
1893	275,000	9,399	34.2	6,848	24.9	2,551
1894	285,000	9,349	32.8	6,615	23.2	2,734
1895	295,000	9,772	33.1	7,168	24.3	2,604
1896	300,000	10,378	34.5	6,953	23.2	3,425
1897	310,000	10,481	33.3	7,225	23.3	3,256
1898	340,000	11,234	33.0	7,768	22.8	3,466
1899	350,000	11,437	32.7	7,933	22.7	3,504
1900	359,000	11,192	31.2	7,642	21.3	3,550
1901	350,862	10,859	30.9	7,738	22.4	3,121
1902	360,000	11,113	30.5	7,577	20.8	3,536
1903	360,000	11,488	32.0	7,169	20.0	4,319
1904	360,000	11,323	31.6	7,474	20.8	3,849
1905	360,000	11,395	31.8	7,178	20.0	4,217
1906	366,220	11,355	31.0	7,379	20.1	3,976
1907	370,163	11,233	30.3	7,870	21.3	3,353
1908	380,344	11,490	29.7	7,523	19.5	3,967
1909	386,576	10,900	28.2	7,028	18.2	3,872
1910	391,167	10,888	27.8	7,284	18.6	3,604
1911	386,449	10,984	28.4	6,645	17.2	4,339
1912	391,974	10,884	27.8	7,111	18.1	3,733
1913	396,000	10,996	27.8	7,453	18.8	3,543
1914	399,000	11,337	28.0	7,663	18.9	3,674
1915	403,000	10,196	25.3	7,220	17.9	2,976
1916	390,000	9,415	24.1	6,496	16.7	2,919
1917	393,000	8,718	22.2	6,557	16.7	2,161
1918	393,000	9,282	23.6	8,920	22.7	362
1919	401,000	10,464	25.7	7,278	17.9	3,186
1920	413,000	12,144	29.4	7,234	17.5	4,910
1921	420,000	11,043	26.3	6,045	14.4	4,998
1922	425,000	10,667	25.1	6,304	14.8	4,363
1923	429,000	10,746	25.0	5,910	13.8	4,836

TABLE No. 6.

Shewing the Annual Birth and Death Rates per 1,000 of the population of the principal Urban Sanitary Districts of Ireland (per Registrar-General's Return).

Urban District.	Births.	Deaths from	
		All Causes.	Zymotic Diseases.
Belfast .. .. .	25.0	13.8	1.2
Dublin (City) .. .. .	25.6	15.0	1.2
Dublin Registration Area .. .. .	24.0	14.4	1.1
Cork .. .. .	26.2	14.0	0.7
Londonderry .. .. .	27.8	14.1	0.8
Limerick .. .. .	27.3	17.2	2.7
Waterford .. .. .	22.3	15.2	1.5
Galway .. .. .	28.3	12.7	1.0
Dundalk .. .. .	25.7	13.4	0.6
Lurgan .. .. .	27.4	15.0	1.7
Drogheda .. .. .	24.1	15.4	0.7
Lisburn .. .. .	25.9	11.6	0.5
Newry .. .. .	30.4	14.5	1.5
Portadown .. .. .	26.6	14.9	1.6
Wexford .. .. .	24.8	15.3	0.8
Ballymena .. .. .	25.4	17.2	3.2
Sligo .. .. .	18.9	12.3	0.3
Kilkenny .. .. .	20.8	18.8	0.6
Tralee .. .. .	24.3	12.9	1.1
Clonmel .. .. .	22.6	11.1	0.1
19 Town Districts .. .. .	26.7	15.3	1.2



Year	Number of Works in Annual Lists		Number of Authors		Number of Editions		Number of Volumes	
	1911	1912	1911	1912	1911	1912	1911	1912
1911	100	120	50	60	100	120	100	120
1912	120	150	60	75	120	150	120	150
1913	150	180	75	90	150	180	150	180
1914	180	220	90	110	180	220	180	220
1915	220	280	110	140	220	280	220	280
1916	280	350	140	175	280	350	280	350
1917	350	450	175	225	350	450	350	450
1918	450	600	225	300	450	600	450	600
1919	600	800	300	400	600	800	600	800
1920	800	1100	400	550	800	1100	800	1100
1921	1100	1500	550	750	1100	1500	1100	1500
1922	1500	2000	750	1000	1500	2000	1500	2000
1923	2000	2800	1000	1400	2000	2800	2000	2800
1924	2800	3800	1400	1900	2800	3800	2800	3800
1925	3800	5000	1900	2500	3800	5000	3800	5000
1926	5000	6800	2500	3400	5000	6800	5000	6800
1927	6800	9000	3400	4500	6800	9000	6800	9000
1928	9000	12000	4500	6000	9000	12000	9000	12000
1929	12000	16000	6000	8000	12000	16000	12000	16000
1930	16000	22000	8000	11000	16000	22000	16000	22000
1931	22000	30000	11000	15000	22000	30000	22000	30000
1932	30000	40000	15000	20000	30000	40000	30000	40000
1933	40000	55000	20000	27500	40000	55000	40000	55000
1934	55000	75000	27500	37500	55000	75000	55000	75000
1935	75000	100000	37500	50000	75000	100000	75000	100000
1936	100000	135000	50000	67500	100000	135000	100000	135000
1937	135000	180000	67500	90000	135000	180000	135000	180000
1938	180000	240000	90000	120000	180000	240000	180000	240000
1939	240000	320000	120000	160000	240000	320000	240000	320000
1940	320000	420000	160000	210000	320000	420000	320000	420000
1941	420000	550000	210000	275000	420000	550000	420000	550000
1942	550000	750000	275000	375000	550000	750000	550000	750000
1943	750000	1000000	375000	500000	750000	1000000	750000	1000000
1944	1000000	1350000	500000	675000	1000000	1350000	1000000	1350000
1945	1350000	1800000	675000	900000	1350000	1800000	1350000	1800000
1946	1800000	2400000	900000	1200000	1800000	2400000	1800000	2400000
1947	2400000	3200000	1200000	1600000	2400000	3200000	2400000	3200000
1948	3200000	4200000	1600000	2100000	3200000	4200000	3200000	4200000
1949	4200000	5500000	2100000	2750000	4200000	5500000	4200000	5500000
1950	5500000	7500000	2750000	3750000	5500000	7500000	5500000	7500000

TABLE No. 8.

Analysis of Deaths Registered as having occurred during the year ended Saturday, the 29th day of December, 1923.

CAUSES OF DEATH.	AGE																	SEX		TOTAL.								
	Under 1 year.	1 year and under 2 years.	2 years and under 3 years.	3 years and under 4 years.	4 years and under 5 years.	Total under 5 years.	5 years and under 10 years.	10 years and under 15 years.	15 years and under 20 years.	20 years and under 25 years.	25 years and under 30 years.	30 years and under 35 years.	35 years and under 40 years.	40 years and under 45 years.	45 years and under 50 years.	50 years and under 55 years.	55 years and under 60 years.	60 years and under 65 years.	65 years and under 70 years.		70 years and under 75 years.	75 years and under 80 years.	80 years and under 85 years.	85 years and over.	Age not known.	Males.	Females.	
	Common Infectious Diseases.																											
<b>I. General Diseases.</b>	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1. Typhus Fever ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2. Typhoid Fever ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3. Pyrexia (origin uncertain) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4. Scarlet Fever ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5. Smallpox ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6. Diphtheria ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7. Croup ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8. Erysipelas ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9. Whooping Cough ..	91	61	12	13	4	181	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	3	6	183
10. Measles ..	31	62	18	9	1	121	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	59	65	124	224
11. Influenza ..	4	3	1	2	2	12	1	1	1	7	3	2	6	4	4	5	11	7	..	..	..	..	..	..	42	57	99	141
<b>Total</b>	127	129	31	26	7	320	6	1	1	7	4	3	6	4	4	6	11	9	9	11	10	5	1	..	192	226	418	618
Other Diseases.																												
12. Other epidemic diseases ..	3	..	3	..	..	6	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13. Purulent infection and septicaemia ..	4	5	7	2	1	19	8	15	58	79	93	55	51	39	32	31	14	17	..	..	..	..	..	..	..	..	..	..
14. Tuberculosis of the lung ..	2	4	5	2	2	13	5	6	9	4	4	3	4	3	1	1	2	..	..	..	..	..	..	..	..	..	..	..
15. Acute miliary tuberculosis ..	10	9	2	3	1	24	3	3	3	3	2	1	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16. Tuberculous meningitis ..	2	3	3	3	1	11	3	3	3	4	2	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17. Abdominal tuberculosis ..	..	1	..	2	1	5	1	8	4	3	3	3	4	1	4	3	1	2	4	1	1	..	..	..	..	..	..	..
18. Other forms of tuberculosis ..	3	1	..	3	1	4	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19. Rickets ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20. Syphilis ..	13	1	..	..	..	13	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21. Cancer and other malignant tumours ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22. Other tumours ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23. Acute articular rheumatism ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24. Chronic rheumatism and gout ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25. Diabetes ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
26. Exophthalmic goitre ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27. Debility ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
28. Leucæmia ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
29. Anæmia, chlorosis ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30. Other general diseases ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
31. Alcoholism (acute or chronic) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
32. Chronic lead poisoning ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
<b>Totals of genera. diseases ..</b>	40	25	20	13	3	101	24	42	93	105	110	74	93	79	90	110	91	93	84	69	28	15	5	..	568	738	1306	



TABLE No. 8 (continued).

CAUSE OF DEATH	AGE																	SEX		TOTAL								
	Under 1 year.	1 year and under 2 years.	2 years and under 3 years.	3 years and under 4 years.	4 years and under 5 years.	Total under 5 years.	5 years and under 10 years.	10 years and under 15 years.	15 years and under 20 years.	20 years and under 25 years.	25 years and under 30 years.	30 years and under 35 years.	35 years and under 40 years.	40 years and under 45 years.	45 years and under 50 years.	50 years and under 55 years.	55 years and under 60 years.	60 years and under 65 years.	65 years and under 70 years.		70 years and under 75 years.	75 years and under 80 years.	80 years and under 85 years.	85 years and over.	Age not known			
	Males.	Females.																										
<b>II. Diseases of the Nervous System and of the Organs of Sense.</b>																												
32a. Hydrocephalus ..	4	..	..	..	..	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
33. Encephalitis ..	8	10	4	..	..	29	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
34. Meningitis (1. Simple meningitis 2. Cerebro-spinal meningitis (undefined) 3. Cerebro-spinal fever ..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
35. Locomotor ataxia ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
36. Other diseases of the spinal cord ..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
37. Cerebral hemorrhage, apoplexy ..	2	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
38. Softening of the brain ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
39. Paralysis without specified cause ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
40. General paralysis of the insane ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
41. Epilepsy ..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
42. Convulsions (non-ferpental) ..	48	20	5	..	..	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
43. Convulsions of infants ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
44. Chorea ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
45. Neuralgia and Neuritis ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
46. Other diseases of the nervous system ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
47. Diseases of the eyes ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
48. Diseases of the ears ..	1	1	1	..	..	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
Totals of nervous system, etc.	65	31	11	8	3	118	5	6	9	12	5	8	13	13	21	47	33	48	57	59	25	16	6	..	..	243	258	501
<b>III. Diseases of the Circulatory System.</b>																												
49. Pericarditis ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50. Acute endocarditis ..	9	2	..	..	..	11	8	11	12	15	17	16	30	33	37	63	71	98	74	100	42	31	12	..	..	13	25	38
51. Organic diseases of the heart ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
52. Angina pectoris ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
53. Disease of the arteries, atheroma, aneurism, etc. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
54. Embolism and thrombosis ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
55. Diseases of the veins (varices, hemorrhoids, phlebitis, etc.) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
56. Diseases of the lymphatic system (lymphangitis, etc.) ..	2	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
57. Hemorrhage: other diseases of the circulatory system ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals of circulatory system ..	11	2	..	..	..	13	9	14	15	20	20	22	38	40	45	77	84	118	100	117	52	39	20	..	..	390	453	843

TABLE No. 8 (continued).

CAUSES OF DEATH	AGE																SEX		TOTAL									
	AGE																Males	Females										
	Under 1 year.	1 year and under 2 years.	2 years and under 3 years.	3 years and under 4 years.	4 years and under 5 years.	Total under 5 years.	5 years and under 10 years.	10 years and under 15 years.	15 years and under 20 years.	20 years and under 25 years.	25 years and under 30 years.	30 years and under 35 years.	35 years and under 40 years.	40 years and under 45 years.	45 years and under 50 years.	50 years and under 55 years.	55 years and under 60 years.	60 years and under 65 years.		65 years and under 70 years.	70 years and under 75 years.	75 years and under 80 years.	80 years and under 85 years.	85 years and over.	Age not known.			
<b>IV. Diseases of the Respiratory System.</b>	211	148	37	23	7	426	13	14	15	19	21	20	34	41	73	61	88	89	102	75	36	19	..	..	533	621	1154	
57a. Asphyxia ..	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
58. Acute Bronchitis ..	49	23	5	3	1	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
59. Chronic Bronchitis ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60. Broncho-pneumonia ..	107	97	23	14	3	244	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
61. Pneumonia ..	47	27	8	6	3	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
62. Pleurisy ..	3	..	..	..	..	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
63. Gangrene of the lung ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
64. Asthma ..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
65. Pulmonary emphysema ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
66. Other diseases of the respiratory system (tuberculosis excepted)	2	1	1	..	..	4	1	2	1	1	1	1	3	1	2	2	..	1	1	2	1	..	..	..	14	9	23	
Totals of respiratory system ..	211	148	37	23	7	426	13	14	15	19	21	20	34	41	73	61	88	89	102	75	36	19	..	..	533	621	1154	
<b>V. Diseases of the Digestive System.</b>	2	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
67. Ulcer of the Stomach ..	11	6	1	1	2	19	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
68. Other diseases of the stomach (cancer excepted)	101	21	9	1	1	134	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
69. Diarrhoea and enteritis ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
70. Appendicitis and typhilitis ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
71. Hernias, intestinal obstructions ..	7	1	..	..	..	8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
72. Other diseases of the intestine ..	5	..	..	..	..	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
73. Acute yellow atrophy of the liver ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
74. Hydatid tumour of the liver ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
75. Cirrhosis of the liver ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
76. Biliary calculi ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
77. Other diseases of the liver ..	2	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
78. Simple peritonitis (non-puerperal) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
79. C other diseases of the digestive system (cancer and tuberculosis excepted)	..	1	..	1	1	3	1	1	1	1	1	..	..	3	1	1	..	..	..	..	..	..	..	..	..	10	3	13
Totals of digestive system ..	128	29	10	3	5	175	8	6	7	8	9	13	13	17	25	17	24	30	11	7	5	3	..	..	187	197	384	
<b>VI. Nonvenereal Disorders of the Genito-Urinary System.</b>	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
80. Acute nephritis ..	1	..	1	1	1	4	5	3	4	3	6	9	2	6	6	14	18	8	8	3	2	..	..	..	..	42	51	93
81. Bright's disease ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	17	21	38
82. Other diseases of the kidneys ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	13	21
83. Calculi of the urinary passages ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	3
84. Diseases of the bladder ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	16	5	21
85. Diseases of the prostate ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	..	15
86. Haemorrhage ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
87. Tumour (non-cancerous) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	4	7
88. Other diseases of the uterus ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals of genito-urinary system ..	1	..	1	1	1	4	6	4	4	7	12	14	13	17	21	26	26	20	14	10	2	2	..	..	103	99	202	



TABLE No. 8 (continued).

CAUSES OF DEATH	AGE																SEX		TOTAL									
	Under 1 year.	1 year and under 2 years	2 years and under 3 years	3 years and under 4 years	4 years and under 5 years	Total under 5 years	5 years and under 10 years	10 years and under 15 years	15 years and under 20 years	20 years and under 25 years	25 years and under 30 years	30 years and under 35 years	35 years and under 40 years	40 years and under 45 years	45 years and under 50 years	50 years and under 55 years	55 years and under 60 years	60 years and under 65 years		65 years and under 70 years	70 years and under 75 years	75 years and under 80 years	80 years and under 85 years	85 years and over.	Age not known	Males.	Females.	
<b>XII. Old Age.</b>																												
104. Senility .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	94	176	270
<b>XIII. Affections Produced by External Causes.</b>																												
105. Suicide by poison .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	3
106. Suicide by asphyxia .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
107. Suicide by hanging or strangulation .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
108. Suicide by drowning .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
109. Suicide by firearms .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
110. Suicide by cutting or piercing instruments .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
111. Other suicides .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
112. Poisoning by food .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2
113. Other acute poisonings .. .. .	1	2	..	..	..	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	5	10
114. Burns .. .. .	5	4	5	5	1	15	6	2	1	1	3	2	..	..	..	..	..	..	..	..	..	..	..	..	..	11	22	33
115. Absorption of deleterious gases .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	5	10
116. Accidental drowning .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	22	33
117. Traumatism by cutting or piercing instruments .. .. .	..	..	..	..	..	..	1	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	5	1	6
118. Traumatism by fall .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
119. Traumatism by machines .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
120. Excessive cold .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
121. Effects of heat .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
122. Homicide by firearms .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
123. Homicide by cutting or piercing instruments .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
124. Homicide by other means .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
125. Fractures (causes not specified) .. .. .	..	2	2	..	1	5	..	..	..	1	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	9	18
126. Other external violence .. .. .	1	..	1	1	..	3	4	..	..	2	1	3	2	..	..	..	..	..	..	..	..	..	..	..	..	20	6	26
Totals of affections by external causes .. .. .	2	9	7	6	2	26	11	2	3	3	4	9	10	2	1	5	6	5	7	1	6	1	1	..	57	45	102	
<b>XIV. Ill-defined Diseases.</b>																												
127. Ill-defined organic disease .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
128. Sudden death .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
129. Cause of death not specified or ill-defined .. .. .	2	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	3	1	4
Totals of ill-defined diseases .. .. .	2	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	3	2	5
Totals from all causes .. .. .	1065	380	121	82	28	1676	83	81	140	178	190	167	215	201	239	367	334	414	418	454	290	186	101	1	2651	3093	5744	

TABLE No. 9.

Shewing the number of deaths registered as having been caused by the principal Zymotic Diseases, also the annual rate of mortality per 10,000 of the population during the thirty-five years 1889-1923 :—

Year.	POPULATION.	Typhoid Fever.		Typhus Fever.		Smallpox		Scarlet Fever.		Simple Continued Fever.		Diphtheria.		Whooping Cough.		Measles.		Diarrhoea.	
		Number of Deaths.	Annual Rate per 10,000	Number of Deaths.	Annual Rate per 10,000	Number of Deaths.	Annual Rate per 10,000	Number of Deaths.	Annual Rate per 10,000	Number of Deaths.	Annual Rate per 10,000	Number of Deaths.	Annual Rate per 10,000	Number of Deaths.	Annual Rate per 10,000	Number of Deaths.	Annual Rate per 10,000	Number of Deaths.	Annual Rate per 10,000
1889	229,622	183	7.9	18	0.7	..	..	31	1.3	58	2.5	40	1.7	73	3.1	117	5.1	369	16.0
1890	232,222	177	7.6	13	0.5	..	..	41	1.7	16	0.6	37	1.5	292	12.5	378	16.2	247	10.6
1891	255,922	151	5.9	10	0.3	3	0.1	31	1.2	9	0.3	26	1.0	158	6.1	10	0.3	276	10.7
1892	261,046	108	4.1	11	0.4	..	..	35	1.3	26	0.9	43	1.6	131	5.0	339	12.6	286	10.9
1893	275,000	122	4.4	14	0.5	..	..	48	1.7	10	0.3	52	1.8	193	7.0	216	7.8	599	21.7
1894	285,000	145	5.1	4	0.1	..	..	38	1.3	21	0.7	66	2.3	190	6.6	452	15.8	197	6.9
1895	295,000	184	6.2	19	0.6	..	..	88	2.9	29	0.9	34	1.1	109	3.6	197	3.6	325	11.0
1896	300,000	136	4.5	4	0.6	..	..	173	5.7	19	0.6	47	1.5	215	7.1	205	6.8	206	6.8
1897	310,000	354	11.4	5	0.1	..	..	32	1.0	16	0.5	38	1.2	187	6.0	124	4.0	355	11.4
1898	340,000	640	18.8	1	0.02	..	..	21	0.6	22	0.6	87	2.5	109	3.2	54	1.5	356	10.4
1899	350,000	263	7.5	1	0.02	..	..	24	0.6	10	0.2	61	1.7	215	6.1	146	4.1	285	8.1
1900	359,000	261	7.2	2	0.05	..	..	14	0.3	8	0.2	54	1.5	115	3.2	42	1.1	241	6.7
1901	358,862	341	9.7	3	0.08	1	0.02	13	0.3	26	0.7	65	1.8	162	4.6	240	6.8	292	8.3
1902	360,000	169	4.7	3	0.08	1	0.02	15	0.4	12	0.3	66	1.8	208	5.7	349	9.6	204	5.6
1903	360,000	136	3.7	4	0.1	..	..	24	0.6	18	0.5	40	1.1	168	4.6	125	3.4	277	7.6
1904	360,000	111	3.0	6	0.1	8	0.2	21	0.5	8	0.2	28	0.7	260	7.2	196	5.4	251	6.9
1905	360,000	128	3.5	1	0.02	1	0.02	35	0.9	6	0.1	32	0.8	24	0.6	227	6.3	295	8.2
1906	366,220	90	2.4	3	0.08	..	..	26	0.7	9	0.2	41	1.1	331	9.0	29	0.7	376	10.2
1907	370,163	82	2.2	3	0.08	..	..	13	0.3	2	0.5	38	1.0	64	1.7	201	5.4	212	5.7
1908	380,344	57	1.5	10	0.26	..	..	4	0.1	2	0.5	33	0.8	137	3.6	186	4.8	260	6.8
1909	386,576	20	0.5	..	..	..	..	4	0.1	2	0.5	18	0.4	213	5.5	10	0.2	244	6.3
1910	391,167	18	0.4	1	0.02	..	..	18	0.4	5	0.1	27	0.5	259	6.6	504	2.8	241	6.1
1911	386,449	15	0.4	2	0.05	..	..	37	1.0	..	..	32	0.8	67	1.7	2	0.05	290	7.5
1912	391,974	17	0.4	2	0.05	..	..	48	1.2	..	..	37	0.9	217	5.5	171	4.4	159	4.1
1913	396,000	22	0.5	1	0.03	..	..	153	3.9	..	..	53	1.3	41	1.0	182	4.6	458	11.5
1914	399,000	26	0.6	12	0.3	..	..	170	4.3	..	..	31	0.8	205	5.1	205	5.1	457	11.5
1915	403,000	10	0.2	..	..	..	..	107	2.7	..	..	27	0.7	134	3.3	177	4.4	240	6.0
1916	390,000	19	0.5	4	0.1	..	..	52	1.3	..	..	28	0.7	120	3.1	191	4.9	236	6.1
1917	393,000	39	1.0	6	0.15	..	..	11	0.3	..	..	22	0.6	57	1.5	98	2.5	180	4.6
1918	393,000	25	0.6	3	0.08	..	..	12	0.3	..	..	30	0.8	317	8.1	111	2.8	205	5.2
1919	401,000	17	0.4	1	0.02	..	..	138	3.4	..	..	30	0.7	9	0.2	137	3.4	263	6.4
1920	413,000	34	0.8	9	0.2	..	..	94	2.3	..	..	45	1.1	84	2.0	132	3.2	223	5.4
1921	420,000	15	0.4	3	0.07	..	..	11	0.3	..	..	31	0.7	222	5.3	17	0.4	279	6.7
1922	425,000	7	0.2	..	..	..	..	12	0.3	..	..	43	1.0	16	0.4	33	0.8	152	3.6
1923	429,000	4	0.09	..	..	..	..	26	0.6	..	..	24	0.6	182	4.2	126	2.9	154	3.6

## INFECTIOUS DISEASES.

## NOTIFICATIONS.

TABLE No. 10.

Shewing the number of cases of Infectious Diseases notified pursuant to the Infectious Disease (Notification) Act, 1889, as having occurred in each of the four quarters.

DISEASE.	QUARTER ENDED				TOTAL.
	31st March	30th June.	29th Sept.	29th Dec.	
Typhus Fever ..	..	..	..	..	..
Typhoid Fever ..	12	8	16	10	46
Scarlet Fever ..	221	214	192	357	984
Simple Fever ..	..	1	..	..	1
Puerperal Fever ..	2	2	4	5	13
Relapsing Fever ..	..	..	..	..	..
Smallpox ..	..	..	..	..	..
Diphtheria ..	107	67	47	68	289
Membranous Croup ..	..	1	3	3	7
Erysipelas ..	25	20	9	35	89
Cerebro-Spinal Meningitis ..	..	..	3	..	3
Poliomyelitis ..	..	..	1	..	1
Encephalitis Lethargica ..	4	11	4	1	20
Ophthalmia Neonatorum ..	4	2	3	2	11
Total ..	375	326	282	481	1,464

## CORRECTED DIAGNOSES.

Two cases of typhoid fever, 12 of scarlet, 48 of diphtheria, 1 of simple continued fever, 2 of membranous croup and 1 of cerebro-spinal meningitis, were found not suffering from the disease notified.

Of these, 1 case notified as typhoid fever was found to be suffering from pneumonia, 9 cases notified as diphtheria were found to be suffering from scarlet fever, and 1 case notified as simple continued fever was found to be suffering from phthisis. The remainder were not suffering from any notifiable disease.

TABLE No. II.

Shewing by Registrar's Districts the number of cases of Infectious Diseases notified pursuant to the Infectious Disease (Notification) Act, 1889.

DISTRICT.	Typhus Fever.	Typhoid Fever	Scarlet Fever	Simple Continued Fever	Puerperal Fever	Relapsing Fever	Smallpox	Diphtheria	Mem- branous Croup	Erysipelas	Cerebro- Spinal Meningitis	Polio- myelitis	Ence- phalitis Lethar- gica	Ophthal- mia Neona- torum	TOTAL
1 Dock	..	..	20	1	2	..	..	9	..	2	1	..	..	1	36
2 Duncairn	..	8	84	..	1	..	..	32	3	15	1	..	..	..	148
3 Shankill	..	6	98	..	..	..	..	33	1	13	1	..	..	1	155
4 Workhouse	..	3	131	..	2	..	..	47	..	5	..	..	..	2	192
5 Millfield	..	..	24	..	..	..	..	16	..	2	..	..	..	..	43
6 College	..	2	87	..	..	..	..	25	1	8	..	..	..	1	126
7 Greencastle	..	1	2	..	..	..	..	4	..	1	..	..	..	..	8
8 Ligoniel	..	1	5	..	..	..	..	1	..	..	..	..	..	..	7
9 Falls	..	4	45	..	1	..	..	36	..	4	..	..	..	..	94
10 Woodvale	..	3	36	..	1	..	..	9	..	2	..	..	..	2	55
11 Ravenhill	..	3	139	..	1	..	..	12	..	10	..	..	..	..	169
12 Ballymacarrett	..	4	142	..	4	..	..	31	1	16	..	..	..	1	199
13 Ballyhackamore	..	1	120	..	..	..	..	15	..	6	..	..	..	1	143
14 Ballymaghan	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15 Central	..	9	10	..	1	..	..	13	1	1	..	..	..	1	36
16 Pottinger	..	1	41	..	..	..	..	6	..	4	..	..	..	1	53
Total	..	46	984	1	13	..	..	289	7	89	3	1	20	11	1,464

TABLE No. 12.

Showing the number of Cases of Infectious Diseases notified pursuant to the Infectious Disease (Notification) Act, 1889 the number treated at home and the number in hospital during the ten years, 1914 to 1923.

YEAR	TYPHUS FEVER.			TYPHOID FEVER.			SCARLET FEVER.			CONTINUOUS FEVER.			DYSENTERY AND MEMBRANOUS COLIC.			SHALLOON.			CEREBRO-SPINAL MENINGITIS.			POLIO-MYELITIS.				PNEUMONIA FEVER.	Erysipelas.	Relapsing Fever.	Encephalitis Lethargica.	Convulsions Epileptiforme.	TOTAL.						
	Total.	Hospital.	Per cent treated in Hospital.	Total.	Home.	Hospital.	Per cent treated in Hospital.	Total.	Home.	Hospital.	Per cent treated in Hospital.	Total.	Home.	Hospital.	Per cent treated in Hospital.	Total.	Home.	Hospital.	Per cent treated in Hospital.	Total.	Home.	Hospital.	Per cent treated in Hospital.														
1914	24	23	95.7	121	13	108	89.2	2,317	265	2,052	87.7	12	1	11	91.7	294	40	254	86.4	..	..	..	4	1	3	75.0	3	3	..	..	10	220	..	..	..	3055	
1915	..	..	..	49	9	40	81.6	1,924	218	1,706	89.1	5	1	4	80.0	179	29	150	83.8	..	..	..	65	9	56	86.1	1	..	1	100.0	6	185	..	..	..	2484	
1916	12	12	100.0	127	5	118	92.9	969	105	863	89.1	..	..	..	..	185	28	157	84.9	..	..	..	22	5	17	77.3	6	2	4	66.6	9	137	..	..	..	1467	
1917	28	26	100.0	270	25	245	90.7	456	43	413	90.1	5	..	5	100.0	186	21	174	89.2	..	..	..	11	3	8	72.7	3	1	2	66.6	4	113	..	..	..	1676	
1918	23	23	100.0	173	7	166	96.0	232	20	212	92.4	5	1	4	80.0	221	14	217	93.9	..	..	..	17	4	13	76.5	..	..	..	..	4	65	..	..	..	790	
1919	1	1	100.0	110	8	102	92.7	2,793	251	2,542	91.0	5	3	6	60.7	228	21	217	91.2	..	..	..	12	1	11	91.7	..	..	..	..	23	149	..	..	..	3355	
1920	26	26	100.0	210	17	193	91.9	1,323	189	1,134	90.2	6	..	6	100.0	300	20	280	93.3	..	..	..	8	1	7	87.5	1	1	..	..	48	151	..	..	..	2689	
1921	10	10	100.0	123	11	112	91.1	784	79	705	89.9	7	..	7	100.0	414	31	383	92.5	5	4	100.0	7	1	6	85.7	..	..	..	..	14	64	..	..	1	13	1444
1922	..	..	..	80	10	70	87.5	759	97	662	91.1	..	..	..	..	522	48	474	90.8	..	..	..	11	2	9	81.8	4	1	3	75.0	17	71	..	..	2	13	1470
1923	..	..	..	45	1	44	97.8	944	20	924	96.3	1	..	1	100.0	290	4	286	98.6	..	..	..	3	..	3	100.0	1	..	1	100.0	13	80	..	..	..	104	



Section 1				Section 2				Section 3				Total
Year	Value	Area	Volume	Year	Value	Area	Volume	Year	Value	Area	Volume	
1971	100.0	200	344.2	1972	100	200	344	1973	100	200	344	1000
1974	100.0	200	344.2	1975	100	200	344	1976	100	200	344	1000
1977	100.0	200	344.2	1978	100	200	344	1979	100	200	344	1000
1980	100.0	200	344.2	1981	100	200	344	1982	100	200	344	1000
1983	100.0	200	344.2	1984	100	200	344	1985	100	200	344	1000
1986	100.0	200	344.2	1987	100	200	344	1988	100	200	344	1000
1989	100.0	200	344.2	1990	100	200	344	1991	100	200	344	1000
1992	100.0	200	344.2	1993	100	200	344	1994	100	200	344	1000
1995	100.0	200	344.2	1996	100	200	344	1997	100	200	344	1000
1998	100.0	200	344.2	1999	100	200	344	2000	100	200	344	1000
2001	100.0	200	344.2	2002	100	200	344	2003	100	200	344	1000
2004	100.0	200	344.2	2005	100	200	344	2006	100	200	344	1000
2007	100.0	200	344.2	2008	100	200	344	2009	100	200	344	1000
2010	100.0	200	344.2	2011	100	200	344	2012	100	200	344	1000
2013	100.0	200	344.2	2014	100	200	344	2015	100	200	344	1000
2016	100.0	200	344.2	2017	100	200	344	2018	100	200	344	1000
2019	100.0	200	344.2	2020	100	200	344	2021	100	200	344	1000

TABLE No. 13.

Shewing, by age periods, and sexes, the number of cases of Infectious Diseases notified, pursuant to the Infectious Disease (Notification) Act, 1889.

DISEASE.	Under 1 year.		1 year and under 5.		5 and under 25 years.		25 and under 45 years.		45 and under 65 years.		65 years and upwards.		Age unknown. MF	Total No. of Males.	Total No. of Females	Grand Total.	
	M	F	M	F	M	F	M	F	M	F	M	F					
Typhus Fever ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Typhoid Fever ..	..	..	..	..	15	19	3	4	2	2	..	..	..	1	20	26	46
Scarlet Fever ..	7	3	132	125	289	371	18	33	1	3	1	1	..	448	536	984	
Simple Fever ..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	1	
Puerperal Fever ..	..	..	..	..	..	3	..	10	..	..	..	..	..	..	13	13	
Relapsing Fever ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Smallpox ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Diphtheria ..	12	3	53	38	64	80	16	19	2	1	..	1	..	147	142	289	
Membranous Croup ..	1	..	4	2	..	..	..	..	..	..	..	..	..	5	2	7	
Erysipelas ..	1	..	..	..	7	15	12	16	16	15	1	4	..	2	37	52	89
Cerebro-Spinal Meningitis ..	..	..	1	..	1	..	1	..	..	..	..	..	..	3	..	3	
Poliomyelitis ..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	1	
Encephalitis Lethargica ..	..	..	1	..	..	4	4	4	3	3	5	..	..	8	12	20	
Ophthalmia Neonatorum ..	6	5	..	..	..	..	..	..	..	..	..	..	..	6	5	11	
Total ..	27	11	191	166	377	492	54	85	24	26	2	6	..	3675	789	1464	

TABLE No. 14.

Showing the rate per 1,000 of the population of cases of Infectious Disease notified, pursuant to the Infectious Disease (Notification) Act, 1889, during the twenty years 1904-1923; also the average for the quinquennial periods.

Year.	Rate.	Year.	Rate.
1904	6.9	1914	7.5
1905	6.8	1915	6.2
1906	7.5	1916	3.8
1907	4.9	1917	2.7
1908	3.6	1918	2.0
1909	2.5	1919	8.4
1910	3.4	1920	6.5
1911	3.8	1921	3.4
1912	3.7	1922	3.5
1913	7.6	1923	3.4

There was a decrease of 0.1 per 1,000 of the population in the attack rate for the year compared with the year 1922, and of 1.8 compared with the average for the ten years 1913-1922.

#### ZYMOTIC DISEASES.

518 deaths were caused by Zymotic Diseases during the year, equivalent to 8.8 per cent. of the total number of deaths registered from all causes, or a Zymotic death rate of 1.2 per 1,000 of the population. During the preceding year the deaths from Zymotic Diseases numbered 264, 4.19 per cent. of the total deaths, or a death rate of 0.6.

4, or 0.77 per cent. of the total deaths from Zymotic Diseases were caused by Typhoid Fever; 126, or 24.3 per cent., by Measles; 26, or 5.0 per cent., by Scarlet Fever; 182, or 35.1 per cent., by Whooping Cough; 24, or 4.6 per cent., by Diphtheria; and 154, or 29.7 per cent., by Diarrhoea.

The diseases from which the greatest number of deaths were registered were Diarrhoea, Whooping Cough and Measles, the figures being respectively 154, 182 and 126. The comparative figures for the preceding year were 152, 16 and 33 respectively.

TABLE No. 15.

Showing the annual Death Rate per 1,000 of the population from Zymotic Diseases during the twenty years 1904-1923; also the average rate for quinquennial periods.

Year.	Rate.	Year.	Rate.
1904	2.5	1914	2.7
1905	2.1	1915	1.7
1906	2.5	1916	1.7
1907	1.7	1917	1.1
1908	1.8	1918	1.8
1909	1.3	1919	1.5
1910	2.7	1920	1.5
1911	1.8	1921	1.4
1912	1.7	1922	0.6
1913	2.3	1923	1.2

## TYPHUS FEVER.

No case of Typhus Fever occurred during the year.

## TYPHOID FEVER.

46 cases were notified, but on investigation, 2 of these were found not suffering from the disease, which made the total number of cases which occurred during the year 44, an attack rate of 0.1 per 1,000 of the population.

The number of cases which occurred during the preceding year was 75, and the average number notified annually during the ten years 1913-1922 was 141.

4 deaths were registered, equivalent to a case mortality of 9.1 per cent., or a death rate of 0.01 per 1,000 of the population.

The number of deaths registered during the preceding year was 7, and the average number registered annually during the ten years 1913-1922 was 21.

TABLE No. 16.

Shewing the annual death rate per 1,000 of the population from Typhoid Fever during the twenty years 1904-1923; also the average rate for quinquennial periods.

Year.	Rate.	Year.	Rate.
1904	0.30	1914	0.07
1905	0.35	1915	0.02
1906	0.24	1916	0.05
1907	0.22	1917	0.10
1908	0.15	1918	0.06
1909	0.05	1919	0.04
1910	0.04	1920	0.08
1911	0.04	1921	0.04
1912	0.04	1922	0.02
1913	0.05	1923	0.01

Average annual death rate for twenty years, 1904-1923—0.1.

## SCARLET FEVER.

984 cases were notified, but on investigation 12 were found not suffering from the disease. In addition to those notified, 9 cases notified as Diphtheria were found to be suffering from Scarlet Fever, which made the total number that occurred during the year 981,—an attack rate of 2.3 per 1,000 of the population.

The number of cases which occurred during the preceding year was 744, and the average number notified annually during the ten years 1913-1922 was 1,440.

26 deaths were registered during the year, equivalent to a case mortality of 2.65 per cent., or a death rate of 0.06 per 1,000 of the population.

The number of deaths registered during the preceding year was 12, and the average number registered annually during the ten years 1913-1922 was 76.

## DIPHTHERIA.

289 cases were notified, but on investigation 48 were found not suffering from the disease, which made the total number of cases that occurred during the year 241, an attack rate of 0.56 per 1,000 of the population.

The number of cases that occurred during the preceding year was 497, and the average number notified annually during the ten years 1913-1922 was 289.

24 deaths were registered, equivalent to a case mortality of 9.9 per cent., or a death rate of 0.06 per 1,000 of the population.

The number of deaths registered during the preceding year was 43, and the average number registered annually during the ten years 1913-1922 was 34.

## MEMBRANEOUS CROUP.

7 cases of this disease were notified during the year, 2 of which were found, on investigation, not suffering from the disease, which made the total number of cases that occurred during the year 5. 3 cases occurred in the preceding year and the average number notified annually during the ten years 1913-1922 was 5.

## ERYSIPELAS.

89 cases were notified during the year—an attack rate of 0.21 per 1,000 of the population.

The number notified during the preceding year was 71, and the average number notified annually during the ten years 1913-1922 was 141.

## CEREBRO-SPINAL MENINGITIS.

3 cases were notified, 1 of which was found on investigation not suffering from the disease, which made the total number of cases that occurred during the year 2, an attack rate of 0.005 per 1,000 of the population.

The number of cases which occurred during the preceding year was 8, and the average number notified annually during the ten years 1913-1922 was 16.

#### POLIOMYELITIS.

1 case of this disease was notified.

#### ENCEPHALITIS LETHARGICA.

20 cases were notified, and 3 deaths occurred during the year. One case occurred in the preceding year.

#### OPHTHALMIA NEONATORUM.

11 cases were notified during the year, and 13 during the preceding year.

#### MEASLES.

126 deaths were registered as having been caused by this disease, equivalent to a death rate of 0.29 per 1,000 of the population.

The number registered during the preceding year was 33, and the average number registered annually during the ten years 1913-1922 was 128.

#### WHOOPING COUGH.

182 deaths were registered during the year, equivalent to a death rate of 0.42 per 1,000 of the population.

The number registered during the preceding year was 16, and the average number registered annually during the ten years 1913-1922 was 120.

#### DIARRHŒA.

154 deaths were caused by this disease during the year, equivalent to a death rate of 0.36 per 1,000 of the population. Of the total number, 130 were children under 2 years of age and 24 were 2 years of age and upwards.

The number registered during the preceding year was 152, and the average number registered annually during the ten years 1913-1922 was 269.

#### VOLUNTARY NOTIFICATIONS OF MEASLES AND WHOOPING COUGH.

There were 185 cases of Measles and 69 cases of Whooping Cough notified by the Medical Officers for the several Dispensary Districts, and 30 cases of Measles and 2 cases of Whooping Cough notified by the Principals of the National Schools throughout the City, and 41 cases of Measles and 1 of Whooping Cough were notified from other sources.

## PUERPERAL FEVER.

13 cases of this disease were notified.

The number of cases notified during the preceding year was 17, and the average number notified annually during the ten years 1913-1922 was 15.

7 deaths occurred, equivalent to a case mortality of 54 per cent.

The number of deaths which occurred during the preceding year was 9 which gave a case mortality of 53 per cent.

The following is a summary showing particulars with respect to the cases treated :—

	Numbers	Recovered	Died
Cases attended by medical practitioners and qualified nurses	6	3	3
Cases attended by medical practitioners and unqualified nurses .. .. .	1	—	1
Cases attended by qualified nurses and no medical practitioners .. .. .	3	2	1
Cases attended by unqualified nurses and no medical practitioners .. .. .	3	1	2

## MIDWIVES.

During the year 206 midwives gave the required notice of their intention to practise, of these 158 were certified by examination and 48 otherwise certified.

In order to insure compliance with the Rules and Regulations of the Central Midwives' Board, the midwives were visited at intervals throughout the year by the Superintendent of Midwives, both at their homes and also at the homes of cases being attended by them. Special attention was given to the personal cleanliness of the midwives and the condition of their homes and necessary appliances. The registers containing the entries of births attended by them were examined and were, with very few exceptions, found to be correctly kept.

A number of breaches of the Rules and Regulations were discovered and reported to the Maternity and Child Welfare Committee, but only in two instances was it considered advisable to send the cases forward to the Joint Nursing and Midwives' Council for their consideration.

13 cases of Puerperal Fever and 11 of Ophthalmia Neonatorum occurred during the year. 6 cases of Puerperal Fever recovered and 7 died.

In cases where artificial feeding was resorted to instructions as to the absolute necessity of cleanliness, of the bottles and teats, were given. Mothers were also advised to take advantage of the Child Welfare Centres, the benefits both to themselves and their infants being explained to them.

## SUMMARY.

Number of Midwives who notified their intention to practise :—

Certified by examinations .. .. .	158
Otherwise certified .. .. .	48

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SUMMARY OF VISITS AND GENERAL INFORMATION WITH RESPECT TO THE ENFORCEMENT OF THE PROVISIONS OF THE ACT AND RULES AND REGULATIONS MADE PURSUANT THERETO.

Visits by Superintending Midwife :—

To Midwives certified by examinations .. ..	430		
To Midwives otherwise certified .. ..	241		
			671
To cases attended by Midwives .. ..			426
To Maternity Nursing Homes .. ..			57
To cases of Ophthalmia Neonatorum .. ..			11
To unregistered women found practising .. ..			20

Births investigated by F.S.S. Officers :—

Attended by Medical Practitioners .. ..			3,883
" by Midwives certified by examination .. ..			3,759
" by Midwives otherwise certified .. ..			878
" in Union Maternity Hospital .. ..			344
" in other Maternity Hospitals .. ..			268
" by nurses from Maternity Hospitals .. ..			623
" in Malone Place Home .. ..			39
" in Salvation Army Home .. ..			37

Notifications received by Medical Superintendent Officer of Health :—

Under Form A.—Sending for Medical help .. ..			65
" " B.—Notification of Death .. ..			10
" " C.—Notification of Stillbirth .. ..			93
" " D.—Notification of having laid out a Dead Body .. ..			3
" " E.—Artificial Feeding .. ..			4

Irregularities :—

Number of Midwives reported to Medical Superintendent Officer of Health or Maternity and Child Welfare Committee for—			
Failing to keep Register .. ..			4
" " Charts .. ..			10
" to attend full ten days .. ..			2
Practising without being registered .. ..			6

Number of Midwives disinfected owing to infectious disease .. .. 22



TABLE No. 17.

## PUERPERAL FEVER.

Return shewing Particulars respecting Puerperal Fever Cases.

No.	ADDRESS.	Dispensary District.	Was there a Medical Practitioner present at birth?	Where Treated		Nurse		Patient	
				Home.	Hospital.	Qualified	Un-qualified	Died	Recov'rd
1	Saunders Street	.. 16	Yes	1	1	1	..	1	..
2	Edward Street	.. 1	No	1	1	..	1	..	1
3	Benares Street	.. 9	Yes	1	..	1	..	1	..
4	Tavanagh Street	.. 4	Yes	1	1	..	1	1	..
5	Herbert Street	.. 10	No	1	..	1	..	..	1
6	Paxton Street	.. 12	Yes	1	..	1	..	..	1
7	Khartoum Street	.. 16	Yes	1	..	1	..	..	1
8	Garnet Street	.. 15	Yes	1	1	1	..	1	..
9	Tamery Street	.. 11	No	1	1	..	1	1	..
10	Nelson Street	.. 1	No.	1	1	..	1	1	..
11	Cavour Street	.. 2	No	1	..	1	..	..	1
12	Amcomri Street	.. 9	No	1	1	1	..	1	..
13	Trillick Street	.. 12	Yes	1	..	1	..	..	1

TABLE No. 18.  
 Shewing by Registrars' Districts the number of cases of Typhoid Fever notified, pursuant to the Infectious Disease (Notification) Act, 1889,  
 in each month of the year.

District.	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
1 Dock	..	..	..	..	..	..	..	..	..	..	..	..	..
2 Duncairn	..	..	..	..	..	..	1	1	1	1	4	..	8
3 Shankill	..	..	2	..	..	1	..	..	2	1	..	..	6
4 Workhouse	..	..	1	1	..	..	..	..	..	..	1	..	3
5 Millfield	..	..	..	..	..	..	..	..	..	..	..	..	..
6 College	..	..	..	..	1	..	..	..	..	1	..	..	2
7 Greencastle	..	..	..	..	..	..	..	1	..	..	..	..	1
8 Ligoniel	..	..	..	..	..	..	..	..	1	..	..	..	1
9 Falls	..	..	..	..	1	1	..	..	..	..	..	..	4
10 Woodvale	2	..	..	..	1	1	..	1	1	..	..	..	3
11 Ravenhill	..	..	..	..	1	1	..	..	1	..	1	..	3
12 Ballymacarrett	..	..	..	1	..	..	..	..	1	..	..	1	4
13 Ballyhackamore	..	..	..	..	..	..	1	..	..	..	..	..	1
14 Ballymaghan	..	..	..	..	..	..	..	..	..	..	..	..	..
15 Central	2	3	1	..	..	..	1	2	..	..	..	..	9
16 Pottinger	..	..	..	..	..	..	..	..	1	..	..	..	1
<b>Total</b>	5	3	4	2	3	3	3	5	8	3	6	1	46

TABLE No. 19.

Shewing by Registrars' Districts the number of cases of Scarlet Fever notified, pursuant to the Infectious Disease (Notification) Act, 1889, in each month of the year.

District.	Jan.	Feb.	Mar.	April.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
1 Dock ..	1	1	1	2	2	4	3	1	..	..	3	2	20
2 Duncairn ..	6	5	11	5	12	18	3	4	3	6	4	7	84
3 Shankill ..	10	4	8	10	12	10	6	7	8	7	5	11	98
4 Workhouse ..	6	13	18	5	7	17	8	3	12	14	14	14	131
5 Millfield ..	..	2	4	..	..	2	1	1	1	5	4	4	24
6 College ..	17	11	10	7	10	4	7	2	4	3	5	7	87
7 Greencastle ..	..	..	..	..	..	..	..	..	2	..	..	..	2
8 Ligoniel ..	..	..	..	..	2	..	1	..	..	1	1	..	5
9 Falls ..	2	1	4	10	11	1	2	1	4	3	3	3	45
10 Woodvale ..	3	1	5	..	4	3	2	1	6	1	3	7	36
11 Ravenhill ..	6	6	11	6	2	9	4	4	12	26	19	34	139
12 Ballymacarrett ..	8	5	12	3	4	13	10	6	22	25	16	18	142
13 Ballyhackamore ..	7	2	12	4	5	6	11	3	14	22	16	18	120
14 Ballymaghan ..	..	..	..	..	..	..	..	..	..	..	..	..	..
15 Central ..	1	1	1	..	1	..	1	3	..	2	..	..	10
16 Pottinger ..	3	1	1	2	..	1	5	1	3	6	9	9	41
Total ..	70	53	98	54	72	88	64	37	91	121	102	134	984

TABLE No. 20.  
 Shewing by Registrars' Districts, the number of cases of Diphtheria notified, pursuant to the Infectious Disease (Notification) Act, 1889,  
 in each month of the year.

DISTRICT.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
1 Dock ..	2	1	..	..	..	1	..	..	..	..	2	3	9
2 Duncairn ..	3	1	10	1	1	2	2	2	..	3	6	1	32
3 Shankill ..	7	5	3	3	..	..	1	4	3	1	6	..	33
4 Workhouse ..	8	5	7	7	4	7	..	..	5	3	..	1	47
5 Millfield ..	..	4	1	2	..	1	..	1	..	4	2	1	16
6 College ..	3	3	3	1	4	1	2	4	..	2	1	1	25
7 Greencastle ..	..	2	1	..	..	..	..	..	..	1	..	..	4
8 Ligoniel ..	..	..	..	1	..	..	..	..	..	..	..	..	1
9 Falls ..	4	4	1	6	3	..	..	4	1	..	8	5	36
10 Woodvale ..	..	..	2	..	1	..	2	..	..	3	..	1	9
11 Ravenhill ..	..	2	4	1	1	1	..	1	1	1	..	..	12
12 Ballymacarrett ..	4	8	3	2	1	1	2	4	1	3	..	2	31
13 Ballyhackamore ..	..	..	1	1	..	4	2	..	4	2	1	..	15
14 Ballymaghan ..	..	..	..	..	..	..	..	..	..	..	..	..	..
15 Central ..	1	1	..	1	4	2	..	..	1	2	..	1	13
16 Pottinger ..	1	..	2	2	..	..	..	..	..	..	..	1	6
Total ..	33	36	38	28	19	20	11	20	16	25	26	17	289

TABLE No. 21.

Shewing by Registrars' Districts the number of cases of Erysipelas notified pursuant to the Infectious Disease (Notification) Act, 1889, in each month of the year.

District.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
1—Dock ..	1	..	..	..	..	..	..	..	..	..	..	1	2
2—Duncairn ..	2	1	2	..	1	..	..	..	1	..	2	6	15
3—Shankill ..	..	1	1	2	1	2	1	..	..	..	2	3	13
4—Workhouse ..	1	..	..	1	..	1	..	..	..	1	1	..	5
5—Millfield ..	..	..	..	..	..	..	..	..	1	1	..	..	2
6—College ..	1	..	..	3	..	1	..	1	..	1	..	1	8
7—Greencastle ..	..	..	1	..	..	..	..	..	..	..	..	..	1
8—Ligoniel ..	..	..	..	..	..	..	..	..	..	..	..	..	..
9—Falls ..	..	..	1	1	1	..	..	..	..	..	..	1	4
10—Woodvale ..	..	..	..	..	1	..	..	..	..	..	1	..	2
11—Ravenhill ..	1	..	2	1	1	..	1	..	1	1	1	1	10
12—Ballynacarrett ..	4	2	2	1	1	1	..	..	2	3	..	..	16
13—Ballyhackamore ..	..	1	..	..	..	..	..	..	..	1	1	3	6
14—Ballymaghan ..	..	..	..	..	..	..	..	..	..	..	..	..	..
15—Central ..	..	..	1	..	..	..	..	..	..	..	..	..	1
16—Pottinger ..	..	..	..	..	..	..	..	1	..	2	..	1	4
Total ..	10	5	10	9	6	5	2	2	5	10	8	17	89

TABLE No. 22.

Shewing by Registrars' Districts the number of cases of Cerebro-Spinal Meningitis notified, pursuant to the Infectious Disease (Notification) Act, 1889, in each month of the year.

District.	Jan.	Feb.	March.	April.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
1—Dock	..	..	..	..	..	..	..	..	1	..	..	..	1
2—Duncairn ..	..	..	..	..	..	..	1	..	..	..	..	..	1
3—Shankill ..	..	..	..	..	..	..	..	..	1	..	..	..	1
4—Workhouse	..	..	..	..	..	..	..	..	..	..	..	..	..
5—Millfield ..	..	..	..	..	..	..	..	..	..	..	..	..	..
6—College ..	..	..	..	..	..	..	..	..	..	..	..	..	..
7—Greencastle..	..	..	..	..	..	..	..	..	..	..	..	..	..
8—Ligoniel ..	..	..	..	..	..	..	..	..	..	..	..	..	..
9—Falls ..	..	..	..	..	..	..	..	..	..	..	..	..	..
10—Woodvale ..	..	..	..	..	..	..	..	..	..	..	..	..	..
11—Ravenhill ..	..	..	..	..	..	..	..	..	..	..	..	..	..
12—Ballymacarrett	..	..	..	..	..	..	..	..	..	..	..	..	..
13—Ballyhackamore	..	..	..	..	..	..	..	..	..	..	..	..	..
14—Ballymaghan	..	..	..	..	..	..	..	..	..	..	..	..	..
15—Central ..	..	..	..	..	..	..	..	..	..	..	..	..	..
16—Pottinger ..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total ..	..	..	..	..	..	..	1	..	2	..	..	..	3

TABLE No. 23.

Shewing by age periods the number of cases of Infectious Diseases notified pursuant to the Infectious Disease (Notification) Act, 1889.

DISEASE.	Under 1 year.	1 year and under 2 years.	2 years and under 5 years.	5 years and under 10 years.	10 years and under 15 years.	15 years and under 20 years.	20 years and under 25 years.	25 years and under 45 years.	45 years and under 65 years.	65 years and upwards.	Age Unknown.	TOTAL.
Typhus Fever	..	..	..	..	..	..	..	..	..	..	..	..
Typhoid Fever	..	..	..	7	16	7	4	7	4	..	1	46
Scarlet Fever	10	37	220	421	154	45	40	51	4	2	..	984
Simple Fever	..	..	..	..	1	..	..	..	..	..	..	1
Puerperal Fever	..	..	..	..	..	..	3	10	..	..	..	13
Relapsing Fever	..	..	..	..	..	..	..	..	..	..	..	..
Smallpox	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria	15	25	66	66	32	24	22	35	3	..	1	289
Membranous Croup	1	3	3	..	..	..	..	..	..	..	..	7
Erysipelas	1	..	..	1	3	7	11	28	31	5	2	89
Cerebro-Spinal Meningitis	..	..	1	..	..	..	1	1	..	..	..	3
Poliomyelitis	..	..	1	..	..	..	..	..	..	..	..	1
Encephalitis Lethargica	..	..	1	..	1	2	1	7	8	..	..	20
Ophthalmia Neonatorum	11	..	..	..	..	..	..	..	..	..	..	11
	38	65	292	495	207	85	82	139	50	7	4	1,464

PUBLIC HEALTH (IRELAND) PNEUMONIA, MALARIA, DYSENTERY, &c.,  
REGULATIONS, 1919.

Under above Regulations, which came into operation on the 1st of April, 1919, every Medical Practitioner as soon as he becomes aware that a person upon whom he is in professional attendance is suffering from Malaria, or Dysentery, or Trench Fever, or Acute Primary Pneumonia, or Acute Influenzal Pneumonia, is required to send or deliver to the Medical Officer of Health, a notification of the case.

The number of cases notified under the Regulations were :—

79 Pneumonia.

2 Malaria.

The houses in which these diseases occurred were visited and precautions taken to prevent the spread of the disease.

PRECAUTIONS TAKEN TO PREVENT THE SPREAD OF INFECTION.

In order to prevent the spread of infection, every house in which infectious disease has occurred is thoroughly disinfected immediately after the receipt of notification of the disease. The bedding, clothing, etc., of the patient and all other articles likely to retain infection are removed to the Disinfecting Station, Laganbank Road, and subjected to steam under pressure.

If it is considered that the patient could not be properly isolated from other members of the family, or that the accommodation in the house is not adequate for successful treatment, removal of the patient to hospital is insisted upon. In cases where home treatment is permitted instructions are given as to the precautions to be taken to prevent the spread of infection and periodical visits are made to ensure that the instructions are being carried out.

Disinfectants are supplied free of cost to every applicant in whose home infectious disease has occurred and also to those whom it is considered are not in a position to purchase same.

Exhaustive enquiries are made with a view to the discovery of the origin of the disease. The sanitary arrangements are carefully examined; the drains if suspected are tested; investigations are made with respect to the milk supply; enquiries are made as to whether any food of a deleterious nature, such as contaminated shellfish, unsound or unwholesome fruit, etc., has been eaten, in fact anything which it is considered might form a possible clue to the source of infection is carefully investigated.

The number of Houses disinfected during the year was 1,841.

Table No. 24 shows the number of articles treated at the Disinfecting Station during the year.

LIBRARY BOOKS.

During the year 107 volumes belonging to the Central and Branch Public Libraries were taken by the officers of the Department from houses in which infectious diseases occurred, and withdrawn from circulation, amounting to a loss of £33 3s. 1d. to the Library Committee. The books of other libraries were disinfected and returned if the owners did not consent to the destruction of same.



### PURDYSBURN FEVER HOSPITAL.

To the Chairman and Members of the Public Health Committee.

LADIES AND GENTLEMEN,

I have the honour to present to you the following report on the working of Purdysburn Fever Hospital for the year (52 weeks ended 29th December, 1923).

1,473 cases were admitted during this period, there remained from the previous year 228 cases, making a total of 1,701 cases under treatment.

1,486 of these were treated to a conclusion, leaving 214 cases in hospital at the end of the year.

The number of admissions in the previous year had been 1,414 and the average number of admissions in the previous five years 1,470.

TABLE I.

Showing the classification of the cases, and the mortality in cases treated to a conclusion.

Disease.	Remaining on 1/1/23	Admitted during 52 weeks.	Total	Remaining on 29/12/23	Nett	Died	Mortality % calculated on cases treated to a conclusion.
Typhoid ..	14	47	61	4	57	4	7.02
Typhus ..	—	—	—	—	—	—	—
Scarlatina ..	136	987	1123	195	928	22	2.36
Diphtheria ..	70	249	319	12	307	26	8.46
Cerebro-Spinal Fever ..	—	1	1	—	1	—	—
Pneumonia ..	—	11	11	—	11	2	18.18
Other Diseases ..	7	163	170	3	166	23	13.35
Quarantine ..	1	10	11	—	11	—	—
Épidemic Encephalitis ..	—	4	4	—	4	1	25.00
Smallpox ..	—	—	—	—	—	—	—
Acute Poliomyelitis ..	—	1	1	—	1	—	—
Totals ..	228	1473	1701	214	1486	78	5.24
Comparative Numbers in 1922 ..	258	1414	1672	228	1444	79	5.47

#### TYPHOID FEVER.

47 cases of Typhoid were admitted during the year, 14 cases remained from the previous year, making a total of 61 cases under treatment. 4 cases were still in hospital at the end of the year. 57 cases were treated to a conclusion, of these, 4 died, giving a mortality rate of 7.02 per cent.

Of the 47 admissions, 42 came from the City and 5 from outside the city boundary.

In the previous year the admissions numbered 68.

The average number of admissions in the previous five years was 138.

TABLE II.

Showing the case mortality in age periods.

Ages.		Cases.	Died.	Mortality per cent.
Under 5 years	.. ..	—	—	—
5—10 years	.. ..	9	—	0.0
10—20	.. ..	32	3	9.37
20—30	.. ..	7	1	14.28
Over 30	.. ..	9	—	0.0
Totals		57	4	7.02

TABLE III.

Showing the number of Typhoid Cases admitted in each month.

January	.. ..	6	July	.. ..	1		
February	.. ..	5	August	.. ..	6		
March	.. ..	1	September	.. ..	9		
April	.. ..	6	October	.. ..	3		
May	.. ..	—	November	.. ..	6		
June	.. ..	3	December	.. ..	1		
					Total	.. ..	47

## DIPHTHERIA.

249 cases were admitted during the year, making with the 70 remaining over from the previous year, 319 cases under treatment.

12 cases still remained in hospital at the end of the year.

307 cases were treated to a conclusion with 26 deaths, giving a case mortality of 8.46 per cent.

2 cases died within 12 hours, 5 cases between 12 and 24 hours and 5 cases between 24 and 48 hours of admission.

Of the 249 admissions 219 came from the city and 30 from outside the city boundary.

In the previous year the admissions numbered 479.

The average number of admissions in the previous five years was 299.

TABLE IV.

Showing case mortality in age periods.

Ages.		Cases.	Died.	Mortality per cent.
Under 1 year	.. ..	8	4	50.0
1—2	.. ..	22	3	13.6
2—5	.. ..	78	11	14.1
5—10	.. ..	68	4	5.9
10—20	.. ..	60	4	6.6
20—30	.. ..	47	—	—
Over 30	.. ..	24	—	—
Totals		307	26	8.46

## LARYNGEAL DIPHTHERIA.

23 cases required operative interference for laryngeal obstruction. In 22 of these cases intubation was performed, and in one case intubation followed by tracheotomy.

TABLE V.  
Showing results in age periods in cases in which intubation of the Larynx was performed.

Ages.	Cases.	Died.	Mortality per cent.
Under 1 year .. ..	2	2	100.0
1— 2 years .. ..	6	1	16.6
2— 3 „ .. ..	4	2	50.0
3— 4 „ .. ..	6	1	16.6
4— 5 „ .. ..	2	—	—
Over 5 „ .. ..	2	1	50.0
Totals .. ..	22	7	30.4

There were two “ return ” cases of Diphtheria—a return rate of 0.65 per cent.

## PNEUMONIA.

11 cases of Pneumonia were admitted, 9 of which recovered and 2 died.

## CEREBRO-SPINAL FEVER.

One case of Cerebro-Spinal Fever was admitted during the year and recovered. The number of admissions in the previous year was 4, and the average number of admissions in the previous five years was 9.

## SCARLATINA.

987 cases were admitted during the year, making with 136 cases remaining over from the previous year a total of 1,123 cases under treatment.

195 cases still remained in hospital at the end of the year, so that 928 cases were treated to a conclusion during the year.

22 of these ended fatally, giving a case mortality of 2.36 per cent.

Of the 987 admissions 954 came from the city and 33 from outside the city boundary.

In the previous year 721 cases were admitted.

The average number of admissions in the previous five years was 854.

TABLE VI.  
Showing the case mortality in age periods:—

Ages.	Cases.	Died.	Mortality per cent.
Under 1 year .. ..	7	2	28.59
1— 2 years .. ..	37	5	13.51
2— 5 „ .. ..	211	7	3.31
5—10 „ .. ..	377	5	1.32
10—20 „ .. ..	198	1	0.50
20—30 „ .. ..	66	2	3.03
Over 30 „ .. ..	32	..	0.00
Totals .. ..	928	22	2.36

Of the 12 deaths—0 occurred within 12 hours of admission.

0	..	..	24	..	..
1	..	..	48	..	..

### “ RETURN CASES.”

In 27 instances the return home of a patient from hospital was followed by other cases in the house, giving a return case rate of 2.8 per cent. On the average these 27 cases had reached the 48th day from the onset of the disease when they were discharged.

### OTHER DISEASES.

163 cases of “ Other Diseases ” were admitted during the year. These included cases admitted for observation and which did not develop any of the ordinary infectious diseases, and also members of the staff who became ill from causes other than infectious diseases and who were warded in the Isolation Pavilion for convenience of nursing.

7 cases remained from the previous year, and 3 remained at the end of this year, so that the number of cases treated to a conclusion was 166 ; of these 23 died giving a case mortality of 13.85 per cent.

The causes of death in these 23 cases were :—Tubercular Meningitis 8, Pneumococcal Meningitis 1, Laryngitis 2, Congenital Laryngeal Tumour and Asphyxia 1, Streptococcal Pharyngitis 1, Septic Throat 1, Whooping Cough and Vincent’s Angina 1, Measles and Broncho Pneumonia 1, Acute Nephritis 1, Endocarditis and Cerebral Embolism 1, Acute Peritonitis 1.

### INFECTIOUS DISEASES AMONGST THE STAFF.

10 members of the staff contracted infectious diseases :—

3 Probationer Nurses and 1 Medical Officer contracted Scarlatina.

5 Probationer Nurses and 1 Sister contracted Diphtheria.

All made good recoveries.

### STAFF.

The Staff at the end of the year consisted of :—

1 Medical Superintendent.	1 Foreman Gardener.
2 Resident Medical Officers.	5 Groundsmen.
1 Steward.	1 Matron.
1 Storekeeper.	1 Night Superintendent.
1 Clerk	1 Housekeeper.
1 Engineer.	12 Ward Sisters.
1 General Mechanic.	39 Probationer Nurses.
3 Motor Drivers.	1 Laundress.
1 Van Man.	1 Cook.
3 Firemen.	1 Seamstress.
2 Enginemen at Pumping Station.	11 Ward Maids.
5 General Porters.	5 General Maids.
1 Gate Porter	2 Kitchen Maids.
1 Disinfecter.	4 Laundry Maids.
1 Night Porter.	

Throughout the year the Staff have discharged their responsible duties very satisfactorily.

I am, Ladies and Gentlemen,

Your obedient Servant

A. GARDNER ROBB, M.B., D.P.H.,  
Visiting Physician in Charge.



TABLE No. 24—Continued.

	BEDDING.														SUNDRIES.								Total	Grand Total.		
	Bed Ticks.	Hair Mattresses.	Flock Mattresses.	Straw Mattresses.	Blankets, Double.	Blankets, Single.	Sheets.	Quilts.	Bolsters.	Bolster Slips.	Pillows.	Pillow Slips.	Valances.	Other Articles.	Cushions.	Curtains.	Towels.	Table Covers.	Toilet Covers.	Carpets.	Felt.	Bundles.			Other Articles.	
1923.																										
Totals for January	5	20	19	..	..	39	15	50	26	11	52	20	..	..	3	..	..	..	..	..	..	..	..	..	..	..
February	9	75	13	2	4	98	40	62	29	21	70	25	..	..	116	..	2	..	..	..	..	..	..	..	..	..
March	8	45	27	..	2	120	152	63	37	15	114	39	..	..	8	..	1	..	..	..	..	..	..	..	..	..
April	..	15	17	2	3	63	18	43	27	18	81	35	..	..	3	..	..	..	..	..	..	..	..	..	..	..
May	6	29	10	..	4	58	22	39	20	10	64	16	..	..	2	..	..	..	..	..	..	..	..	..	..	..
June	4	12	21	3	2	42	27	33	17	11	54	25	..	..	..	1	..	..	..	..	..	..	..	..	..	..
July	2	15	18	..	1	29	16	33	20	11	61	27	..	..	..	..	..	..	..	..	..	..	..	..	..	..
August	5	23	16	1	..	22	10	20	19	8	73	14	..	..	..	..	..	..	..	..	..	..	..	..	..	..
September	16	12	23	6	3	56	24	46	25	10	89	16	4	..	..	..	..	..	..	..	..	..	..	..	..	..
October	13	30	27	2	1	75	34	40	28	14	83	26	..	..	..	..	..	..	..	..	..	..	..	..	..	..
November	11	35	35	1	2	84	37	61	31	15	107	31	..	..	3	..	..	..	..	..	..	..	..	..	..	..
December	1	17	21	4	..	63	27	35	23	12	59	15	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	80	328	247	21	22	749	422	525	302	156	907	289	5	..	162	1	6	..	..	5	11	54	2	4294	4429	4429

VENEREAL DISEASES.

Work done at the Clinics and Laboratories during the Year ended the 31st March, 1924.

HOSPITALS, &c.	Number of Persons dealt with at the Out-Patient Clinic and found to be suffering from—					Total	Total Number of attendances at Out-patient Clinics	Number of persons who were treated as In-patients	Aggregate number of In-patient days	Average number of beds used	Wassermann Reactions	Smears
	Syphilis	Gonorrhoea	Soft Chancre	Not Suffering from V. D.	Total							
Royal Victoria Hospital ..	1,038	468	1	1,030	2,537	10,936	41	771	2.1	3,236	183	
Mater Infirmorum Hospital ..	590	182	16	223	1,011	3,150	47	976	2.7	1,122	98	
Union Hospital ..	—	—	—	—	—	—	232	13,378	36.6	—	—	
Municipal Laboratory ..	—	—	—	—	—	—	—	—	—	602	16	
Laboratory at Queen's University ..	—	—	—	—	—	—	—	—	—	186	—	
<b>Total ..</b>	<b>1,628</b>	<b>650</b>	<b>17</b>	<b>1,253</b>	<b>3,548</b>	<b>14,086</b>	<b>320</b>	<b>15,125</b>	<b>14.4</b>	<b>5,146</b>	<b>297</b>	

TABLE No. 25.

Shewing by age periods and sexes the number of cases of TUBERCULOSIS notified in each of the several Dispensary Districts during the year, pursuant to the Tuberculosis Prevention (Ireland) Act, 1908.

Dispensary District.	Under 1 Year.		1 Year and under 5.		5 Years and under 15.		15 Years and under 25.		25 Years and under 35.		35 Years and under 45.		45 Years and upwards.		Age not stated.		Total.		Grand Total.
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	1	1	2
3	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	1
4	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	1
5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	1
7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	1
14	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	..	..	..	..	..	..	2	1	1	..	..	1	1	..	..	..	4	2	6

At the Tuberculosis Institute during the same period 1,001 persons were diagnosed suffering from Tuberculosis.



TABLE No. 26.

Shewing the occupation or description of persons notified as suffering from Tuberculosis during the year.

Occupation, etc.	Male.	Female.	Total.
Housewife .. .. .	..	1	1
Labourer .. .. .	1	..	1
No Occupation .. .. .	2	1	3
Managing Director .. .. .	1	..	1
<b>Total .. .. .</b>	<b>4</b>	<b>2</b>	<b>6</b>

TABLE No. 27.

Shewing the number of Deaths registered as having been caused by Phthisis and Diseases of the Respiratory Organs ; also the Annual Rate of Mortality per 1,000 of the population during the twenty years, 1904-1923 :—

Year	Population	Phthisis	Rate per 1,000	Diseases of the Respiratory System			Total Chest Affections
				Pneumonia	Others	Total	
1904	360,000	1,120	3.1	..	1,765	1,765	2,885
1905	360,000	1,116	3.1	577	1,055	1,632	2,748
1906	366,220	1,015	2.7	558	1,000	1,558	2,573
1907	370,163	926	2.5	696	1,137	1,833	2,759
1908	380,344	880	2.3	753	1,210	1,963	2,843
1909	386,576	811	2.1	705	1,130	1,835	2,646
1910	391,167	825	2.1	622	916	1,538	2,363
1911	386,449	802	2.1	468	788	1,256	2,058
1912	391,974	802	2.0	799	981	1,780	2,582
1913	396,000	844	2.1	665	868	1,533	2,377
1914	399,000	836	2.1	701	929	1,630	2,466
1915	403,000	813	2.0	738	929	1,667	2,480
1916	390,000	830	2.1	506	670	1,176	2,006
1917	393,000	932	2.4	614	825	1,439	2,371
1918	393,000	1,051	2.7	1,412	1,608	3,020	4,071
1919	401,000	853	2.1	712	1,104	1,816	2,669
1920	413,000	762	1.8	800	766	1,566	2,328
1921	420,000	677	1.6	511	520	1,031	1,708
1922	425,000	624	1.5	594	648	1,242	1,866
1923	429,000	571	1.3	564	573	1,137	1,708

#### INFANTILE MORTALITY.

1,089 deaths of children under one year old were registered during the year, equivalent to 101 deaths per 1,000 births, a increase of 7 per 1,000, compared with the preceding year.

Of the total number registered 441 or 40.5 per cent. were due to congenital debility ; 203, or 18.6 per cent. to bronchitis and pneumonia ; 111 or 10.2 per cent., to diarrhoeal diseases ; 49 or 4.5 per cent., to convulsions ; and 30 or 2.8 per cent., to measles. These were the principal causes of death.

#### NOTIFICATION OF BIRTHS ACT.

10,401 births, including 220 stillbirths and 362 illegitimate births, were notified during the year, pursuant to the Notification of Births Act ; 5,354 of these were males and 4,974 were females, and in 73 instances the sex was not stated.

Of the total number notified 9,546 were selected for visitation and supervision, and during the year 44,126 visits were made.

On visiting a house where a birth has taken place the Health Visitor makes enquiries regarding the family history, and with respect to the conditions obtaining in the home. She also makes an examination of the sanitary arrangements, and if any defect is discovered immediate remedial measures are taken.

She gives advice and instructions as to the care of infants and young children, the preparation of food and the storage of milk, butter, &c., and the precautions to be taken to prevent infectious disease.

For a period of twelve months the child is kept under special supervision and its progress recorded, and the mother is advised to attend the Child Welfare Centre in the district in which she resides. After this period there is a general supervision exercised by the Officers in the district, and if children are delicate or not thriving they are kept under supervision as long as is considered necessary.

#### MATERNITY AND CHILD WELFARE.

There were six Centres in operation during the year, situated at Donegall Road, Chamberlain Street, Danube Street, York Street, Shankill Road and Springfield Road. Each Centre was open one afternoon in the week, when a Medical Practitioner, a properly trained and qualified Nurse, and a Health Visitor, together with several voluntary workers, were in attendance.

The work of the Centres consists of a thorough medical examination of babies and medical advice as to their treatment where such is required. Each baby is weighed periodically, and the weight recorded in order to ascertain the progress being made and to assist in the discovery of defects or ailments at the earliest possible moment, and thus prevent or check any disease which may impede its progress or have a detrimental effect upon its after life. Consultations are held with mothers with respect to their health, and they are advised and instructed in the care of infants and young children, and are supplied with instructive literature on the subject. Food, such as Virol and Glaxo, is supplied at cost price and free to cases where it is considered the circumstances warrant it. In addition to assisting in the regular work of the Centres, the ladies who assisted voluntarily throughout the year very kindly provided suitable clothing for babies at a nominal charge.

The following table shews the number of names on the roll of each Centre, and the total number of attendances during the year, also the number of babies medically examined and the total number of examinations:—

Centre.	On Roll.	Total No. of attendances.	Babies medically examined.	Total medical examinations of babies.
Donegall Road ..	468	3,387	255	342
Chamberlain Street ..	825	6,622	395	759
Danube Street ..	782	5,752	390	590
York Street ..	489	3,341	335	859
Shankill Road ..	518	4,775	367	27
Springfield Road ..	523	2,776	297	517
	<u>3,605</u>	<u>26,653</u>	<u>2,039</u>	<u>3,094</u>

There was a substantial increase in the number attending the several Centres compared with the preceding year, which shows that the very beneficial work of the Centres is becoming more generally appreciated by those whom the Maternity and Child Welfare Scheme was intended to benefit. In 1922 the total number on the rolls was 3,140 and the total attendances was 24,287, whilst that for the year under review, as will be seen from the foregoing table, was:—Number on rolls 3,605, and number of attendances 26,653. There was also a corresponding increase in the quantity of food distributed. During the year 12,096 lbs. of glaxo and 4,172 lbs of virol were supplied either at cost price or free to necessitous cases, compared with 10,464 lbs. of glaxo and 3,472 lbs. of virol for the year 1922.



## MATERNITY AND

Statement of Net Expenditure incurred by the Belfast County Borough Council in connection  
Twelve Months ended

EXPENDITURE—MAIN SCHEME.				Amount.
1. Salaries or remuneration of—				
(a) Medical Officers (3)	..	..	..	£300 0 0
(b) Superintendent of Midwives (1)	..	..	..	262 2 7
(c) Health Visitors (6)	..	..	..	1,241 10 9
(d) Other Officers, if any (Emergency Nurse)	..	..	..	176 9 4
(e) Any other expenditure, (Uniform Allowances, &c.)	..	..	..	85 19 4
2. Centres (6)—				
(a) Rent	..	..	..	79 8 0
(b) Heating, Lighting, Cleaning	..	..	..	21 13 10
(c) Other expenditure—				
Petty Expenses	..	..	..	33 1 2
Towels, Hardware, Cupboard, &c.	..	..	..	15 15 9
3. Payments to Doctors or Midwives under Regulations Nos. 3 and 5	..	..	..	—
4. Payments for drugs or other medical requisites—				
Drugs	..	..	..	0 12 0
5. Payments to Hospitals (or Lying-in Homes)—				
(a) In respect of mothers (Regulation No. 4)	..	..	..	—
(b) In respect of children (Regulation No. 8)	..	..	..	—
6. Payments to Convalescent Homes or other Institutions under Regulations Nos. 11 and 12.	..	..	..	—
7. Contributions to other Voluntary Institutions or Agencies (Regulation No. 14),				
Thorndale Nursing Home	..	..	..	450 0 0
Rescue and Maternity Home	..	..	..	300 0 0
Maternity Centre Home	..	..	..	75 0 0
St. Joseph's Babies' Home	..	..	..	300 0 0
8. Other items of expenditure—				
Advertising, printing, stationery	..	..	..	115 3 3
Deputation expenses	..	..	..	61 10 0
Net Expenditure (carried forward)	..	..	..	£3,518 6 0

## CHILD WELFARE GRANT.

with the Approved Scheme for Maternity and Child Welfare carried out by them within the 31st December, 1923.

EXPENDITURE—PROVISION OF MILK AND FOOD.		Amount.
1. Cost of Milk (11,280 lbs. Glaxo) 1,200 lbs. @ 1/11, 4,800 @ 1/9, 5,280 lbs. @ 1/7	.. .. .	£953 0 0
2. Cost of food— (Virol, 4,200 lbs. @ 32/6 per 28 lbs.)	.. .. .	243 15 0
3. Other incidental expenditure, specifying in detail :— Jars and mugs	.. .. .	15 13 1
Total,	.. .. .	<u>£1,212 8 1</u>
 RECEIPTS—		
(a) From sales of milk	.. .. .	£958 3 8
(b) From sales of food	.. .. .	253 11 1
(c) Glass jars	.. .. .	9 1 2
Total Receipts,	.. .. .	<u>1,220 15 11</u>
NET RECEIPTS ON MILK AND FOOD	Credit	.. 8 7 10
Net Expenditure on main scheme (brought forward from opposite page)		.. 3,518 6 0
TOTAL NET EXPENDITURE	.. .. .	<u>£3,509 18 2</u>

I certify that the foregoing Expenditure has been incurred by the Belfast County Borough Council in carrying out their approved scheme for Maternity and Child Welfare, and that it is in accordance with the Regulations for the distribution of the Government Grant.

(Signed)

R. G. GEALE,  
Financial Officer and City Accountant.

Name and Address of Council's Treasurer, H. I. JOHNS, Esq., J.P.,  
Belfast Bank, Belfast.

Dated 22nd January, 1924.



TABLE No. 29.  
ANALYSIS OF PARTICULARS RESPECTING BIRTHS NOTIFIED  
DURING THE YEAR.

Centres	Legitimate		Illegitimate		Born at Full Time		Premature		Stillborn		MOTHER.							FATHER.							
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Whether employed during Pregnancy.							Average Weekly Wages.							
											Period employed.							Under 20s.	20s & under 25s.	25s. & under 30s.	30s & under 35s.	35s. & under 40s.	40s. & under 45s.	45s. & under 50s.	50s. & over.
	1 month	2 months	3 months	4 months	5 months	6 months	Over 6 months																		
1	806	739	15	14	787	728	24	25	24	19	1	2	17	16	16	40	67	48	75	17	56	178	124	25	182
2	668	630	51	55	695	664	24	21	26	21	1	4	8	5	7	23	142	1	2	1	6	257	183	93	209
3	1289	1166	50	30	1316	1180	23	16	15	15	3	12	20	28	24	26	95	20	70	68	57	89	54	10	12
4	814	753	33	27	820	766	27	14	26	22	2	7	3	7	27	21	94	17	68	13	10	77	37	99	630
5	594	610	20	19	605	621	9	8	21	9	..	..	8	10	9	7	116	14	69	43	61	124	232	41	167
6	571	544	27	21	584	556	14	9	14	8	2	3	..	8	2	5	80	4	22	13	39	41	172	15	99
Total	4742	4442	196	166	4807	4515	131	93	126	94	9	28	56	74	85	122	594	104	306	155	229	766	802	283	1299



## MILK SUPPLY.

## MILKSHOPS—

On Register 1st January .. .. .	1,468
New Registrations effected during the year .. .. .	273
Removed from Register during the year .. .. .	251
On Register at close of the year .. .. .	1,490
Number of Visits made during the year, including 152 to premises where buttermilk was sold .. .. .	4,401
Number of persons prohibited from selling milk owing to the unsuitability of their premises, &c. .. .. .	9
Number of requests for registration refused .. .. .	28
Number of visits to premises where unregistered persons were suspected of selling milk .. .. .	194
Number of unregistered persons discovered selling milk .. .. .	92
Number of new vessels provided by vendors for the storage, etc., of milk .. .. .	284
Verbal notices given .. .. .	394

Returns shewing the number of Milkshops and the Inspections made in each of the several Dispensary Districts.

## DISPENSARY DISTRICTS.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Total
Milkshops	59	186	200	119	70	111	6	12	95	108	134	120	64	..	126	80	1,490
Inspections	219	482	476	332	191	408	37	12	221	256	507	505	145	..	379	231	4,401

## COWSHEDS—

Number on Register .. .. .	129
Number of cows housed therein .. .. .	2,141
New Cowsheds erected during the year .. .. .	2

All the cowsheds were regularly inspected during the year, and were generally found to be kept in satisfactory sanitary condition.

Twelve summonses for breaches of the Dairies, Cowsheds and Milkshops (Ireland) Order, 1908 were issued during the year, and fines amounting to £14 12s. 6d. were inflicted.

Return shewing the number of Cow-keepers in each Dispensary District and the number of cows; also the number of new cowsheds erected and the number of cowsheds in which structural alterations were carried out.

Dispensary Districts.	Total Number of			Cowsheds in which Structural Alterations were carried out.
	Cowkeepers.	Cows.	New Cowsheds erected.	
No. 1 .. .. .	..	..	..	..
" 2 .. .. .	1	6	..	..
" 3 .. .. .	3	72	..	..
" 4 .. .. .	18	175	1	1
" 5 .. .. .	2	26	..	..
" 6 .. .. .	10	152	..	1
" 7 .. .. .	7	103	..	..
" 8 .. .. .	17	249	..	2
" 9 .. .. .	13	239	..	1
" 10 .. .. .	22	466	..	3
" 11 .. .. .	13	320	..	1
" 12 .. .. .	1	5	..	..
" 13 .. .. .	18	286	1	..
" 14 .. .. .	..	..	..	..
" 15 .. .. .	4	42	..	..
" 16 .. .. .	..	..	..	..
	129	2,141	2	9

## SALE OF FOOD AND DRUGS ACT.

TABLE No. 30.

Shewing particulars of samples taken for analysis during the year :—

Nature of Article.	Number Taken.	No. Adulterated.	Prosecutions.	Convictions.	Dismissals.	No Action Taken.	Withdrawals.	Fines.
Butter ..	103	3	1	..	1	2	..	..
Buttermilk ..	211	22	18	18	..	4	..	£61 0 0
Cocoa ..	5	..	..	..	..	..	..	..
Corned Beef ..	5	..	..	..	..	..	..	..
Cream of Tartar ..	4	1	..	..	..	1	..	..
Custard Powder ..	3	..	..	..	..	..	..	..
Dripping ..	43	..	..	..	..	..	..	..
Ginger ..	2	..	..	..	..	..	..	..
Lard ..	18	..	..	..	..	..	..	..
Margarine ..	39	..	..	..	..	..	..	..
Mustard ..	3	..	..	..	..	..	..	..
Pepper ..	2	..	..	..	..	..	..	..
Rum ..	2	1	1	1	..	..	..	£0 10 0
Sauce ..	2	..	..	..	..	..	..	..
Sausages ..	4	1	..	..	..	1	..	..
Sweetmilk ..	582	43	20	17	3	23	..	£58 5 0
Whiskey ..	16	4	3	2	1	1	..	2 0 0
Miscellaneous ..	17	..	..	..	..	..	..	..
	<u>1,061</u>	<u>75</u>	<u>43</u>	<u>38</u>	<u>5</u>	<u>32</u>	..	<u>£121 15 0</u>

TABLE No 31.

Return shewing particulars of samples of Sweetmilk taken for Analysis during the year.

Month.	No. of Samples taken.	Average percentage.		Highest percentage of Fats with the percentage of Solids (not Fats).		Highest percentage of Solids (not Fats) with the percentage of Fats.		Lowest percentage of Fats with the percentage of Solids (not Fats).		Lowest percentage of Solids (not Fats) with the percentage of Fats.	
		Fats.	Solids (not Fats).	Fats.	Solids (not Fats).	Solids (not Fats).	Fats.	Fats.	Solids (not Fats).	Solids (not Fats).	Fats.
January ..	73	3.70	8.75	5.45	8.52	9.48	4.0	2.61	8.96	8.08	4.0
February ..	54	3.84	8.80	5.65	8.79	9.45	3.40	2.54	9.12	8.18	4.90
March ..	59	3.82	8.91	4.90	9.00	9.45	3.55	2.59	7.23	7.23	2.59
April ..	32	3.58	8.83	5.75	8.77	9.25	3.65	2.85	8.19	8.19	2.85
May ..	56	3.42	8.76	5.10	9.13	9.33	3.80	2.67	8.53	7.92	2.87
June ..	58	3.37	8.83	5.10	8.92	9.33	3.50	2.50	9.10	8.38	3.50
July ..	39	3.20	8.68	4.40	8.78	9.05	2.85	2.60	8.70	8.06	3.11
August ..	11	3.26	8.47	3.93	8.10	8.78	3.50	2.72	8.50	7.96	3.16
September ..	56	3.66	8.60	5.95	8.85	9.53	3.25	2.79	7.62	7.48	3.02
October ..	63	3.74	8.65	4.60	8.88	9.30	4.10	2.90	8.53	6.95	3.39
November ..	40	3.65	8.70	4.80	9.20	9.20	4.80	2.33	8.61	7.40	4.23
December ..	39	3.52	8.85	4.35	9.15	9.15	4.35	2.90	8.90	8.25	3.10
	580										

Return shewing the visits to shops or other premises where food is prepared, stored or sold :—

Description of Premises	No. of Visits.
Butchers' Shops ..	3,289
Confectionery Shops ..	122
Dairies ..	161
Fish Shops ..	106
Fruit Shops ..	396
Grocery Shops ..	1,359
Ice Cream Shops ..	40
Jam Works ..	12
Markets ..	176
Provision Shops ..	662
Railway Stations ..	429
Restaurants ..	17
Wholesale Stores ..	60
Total ..	6,829

FOOD SEIZED, CONDEMNED, AND DESTROYED AS UNFIT FOR THE FOOD OF MAN.

6 barrels Greengages  
22 barrels Pears.  
56 lbs. Beef.

10 barrels Herring.  
3 Pigs.

## PATHOLOGICAL LABORATORY.

16th June, 1924.

Sir,

I beg to report to you herewith the examinations undertaken during the year 1923.

I have again in consultation with Dr. Graham, the City Bacteriologist, examined a number of tumours and tissues for cancerous and other malignant changes.

The following tables show the details of the various examinations, and speak for themselves:—

## TOTAL NUMBER OF EXAMINATIONS.

Swabs for Diphtheria	..	..	115
Widal Reactions	..	..	14
Sputa	..	..	103
Wassermann	..	..	186
Urines	..	..	120
Miscellaneous (including preparation of vaccines)			80
Tumours and Scrapings	..	..	31
			<hr/>
			649
			<hr/>

I am, Sir,

Your obedient Servant,

W. ST. C. SYMMERS.

Dr. H. W. Bailie.

## SWABS FOR DIPHTHERIA.

			Positive.	Negative.	Hospitals.	Doctors.
January	..	..	2	21	2	21
February	..	..	1	19	2	18
March	..	..	2	13	2	13
April	..	..	3	4	..	7
May	..	..	1	7	1	7
June	..	..	1	10	1	10
July	..	..	2	4	..	6
August	..	..	..	2	1	1
September	..	..	..	2	..	2
October	..	..	1	8	1	8
November	..	..	..	7	..	7
December	..	..	1	5	..	6
			<hr/>	<hr/>	<hr/>	<hr/>
			13	102	10	105

Diphtheria Swabs—Total 115.

## WIDALS.

			Positive.			Negative.	Hospitals.	Doctors.
			T.	A.	B.			
January	..	..	..	..	..	1	..	1
February	..	..	..	..	..	4	4	..
March	..	..	..	..	..	1	..	1
April	..	..	..	..	2	..	..	2
May	..	..	..	1	..	1	..	2
June	..	..	..	..	..	..	..	..
July	..	..	..	..	..	..	..	..
August	..	..	..	..	..	..	..	..
September	..	..	..	..	1	3	..	4
October	..	..	..	..	..	..	..	..
November	..	..	..	..	..	1	..	..
December	..	..	..	..	..	..	..	..
..	..	..	..	1	3	11	4	10

Total, 14.

T—*Bacillus typhosus*.A—*Paratyphosus A*.B—*Paratyphosus B*.

## SPUTA FOR TUBERCLE BACILLI.

			Positive.	Negative.	Hospitals.	Doctors.
January	..	..	1	8	..	9
February	..	..	4	12	2	14
March	..	..	..	9	1	8
April	..	..	3	13	2	14
May	..	..	6	10	1	15
June	..	..	..	2	..	2
July	..	..	1	9	..	10
August	..	..	1	4	..	5
September	..	..	3	1	..	4
October	..	..	4	6	1	9
November	..	..	..	5	1	4
December	..	..	1	1	..	2
			23	80	8	95

Total, 103.

## WASSERMANN REACTIONS.

			Positive.	Negative.	Hospitals.	Doctors.
January	..	..	10	18	19	9
February	..	..	5	9	8	6
March	..	..	6	10	12	4
April	..	..	13	19	18	14
May	..	..	1	6	3	4
June	..	..	7	14	16	5
July	..	..	5	10	10	5
August	..	..	8	8	10	6
September	..	..	..	4	3	1
October	..	..	10	5	7	8
November	..	..	4	6	9	1
December	..	..	4	7	9	2
			73	113	122	64

Total, 186.

## URINES.

	General Examination (including Chemical Tests, etc.)	Bacillus Tuberculosis		Gonococci		Other Organisms.				Sterile	Doctors	Hospitals	
		Pos.	Neg.	Pos.	Neg.	B. Coli.	Staph.	Strep.	Mixed Growth				
January	..	4	3	1	..	..	4	2	..	1	6	21	..
February	..	8	2	..	..	..	3	5	..	2	4	18	6
March	..	2	..	..	..	..	1	..	..	1	6	10	..
April	..	3	..	1	..	..	2	0	1	..	2	7	2
May	..	2	1	2	..	1	2	2	..	3	..	12	1
June	..	1	..	..	..	..	..	1	..	..	..	2	..
July	..	2	..	..	..	..	2	..	..	..	3	7	..
August	..	..	..	4	..	..	2	..	..	1	..	6	1
September	..	..	..	2	1	..	2	..	..	1	3	5	4
October	..	1	..	..	..	..	1	..	..	2	2	6	..
November	..	..	..	..	..	..	7	1	..	..	..	5	3
December	..	..	..	..	..	..	1	3	..	1	..	2	3
		22	6	10	1	1	27	14	1	12	26	100	20

Total, 120.

## OTHER MISCELLANEOUS EXAMINATIONS.

Swabs (excluding Diphtheria)	..	..	..	..	..	..	13
Pus	..	..	..	..	..	..	12
Blood Cultures	..	..	..	..	..	..	1
Blood Counts, Films, etc.	..	..	..	..	..	..	6
Material for Gonococcus (excluding urines) (4 Positive, 12 Negative)	..	..	..	..	..	..	16
Blood Urea (and other Chemical Exams. of Blood)	..	..	..	..	..	..	1
Cerebro-Spinal Fluid	..	..	..	..	..	..	4
Necrotic Lymph Glands	..	..	..	..	..	..	1
Milk	..	..	..	..	..	..	6
Sputa (other than T. B.)	..	..	..	..	..	..	1
							<hr/>
					Total,	..	61
							<hr/>

## VACCINES PREPARED.

Streptococcol	..	..	..	4
Mixed	..	..	..	4
Staphylococcal	..	..	..	6
Enterococcal	..	..	..	1
B. Coli	..	..	..	4
				<hr/>
	Total,	..	..	19
				<hr/>

## TUMOURS (With Dr. Graham.)

Date.	Nature of Specimen.	Report.
2nd January.	Small pieces of tissue.	Tubercular.
8th January.	Uterine Scrapings.	Non-malignant.
11th January.	do.	Suspicious.
18th January.	do.	Non-malignant.
18th January.	Liver of Guinea Pig inoculated with T. B. Milk.	—
25th January.	Uterine Scrapings.	Non-malignant.
— February.	Fallopian tubes and Appendix.	Inflammatory.
20th March.	Bony outgrowth from tibia.	Cartilage and Bone.
16th April.	Uteris.	Adenomatous.
16th April.	Uterine Scrapings.	Malignant.
16th April.	do.	Non-malignant.
16th April.	Growth from Omentum.	Malignant.
16th April.	Uteris.	Non-malignant.
17th May.	Uterine Scrapings.	Non-malignant.
17th May.	do.	Probably inflammatory
22nd May.	Kidney from Cow.	Alveolar sarcoma
22nd May.	Uterine scrapings.	Non-malignant.
25th June.	Breast Tumour.	Malignant.
4th July.	Vaginal Polypus.	Non-malignant.
4th July.	Uterine Scrapings.	Malignant.
13th July.	Omental Growth.	Sarcoma.
27th July.	Cervical Polypus.	Non-malignant (?)
— August.	Tissue from Laporatomy.	Tubercular (?)
21st August.	Uterine Tissue.	—
10th November.	Growth from Bladder.	Non-malignant.
10th November.	Growth from Cervix.	do.
12th November.	Uterine Scraping.	do.
28th November.	Uterine Scrapings.	Malignant.
14th December.	Tumour from Right Groin.	Malignant.
14th December.	Uterine Scrapings.	Suspicious.
17th December.	Uterine Tumour.	Malignant.

Total, 31

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## CITY BACTERIOLOGICAL LABORATORY,

225 ALBERTBRIDGE ROAD,

BELFAST.

The following is a summary of the Pathological and Bacteriological work carried out for the year ending December 31st, 1923.

During this period the number of specimens submitted for examination was 4,437.

The Specimens may be grouped as follows :—

## INFECTIOUS DISEASE.

Diphtheria, throat swabs	..	1,615			
Nasal swabs	..	45			
Vaginal swabs	..	8			
Direct Examinations	..	45	..	..	1,755
Enteric Group, Agglutination tests		351			
Blood and Faeces, cultures	..	19	..	..	370
Cerebro-Spinal Fever, —					
Cerebro-Spinal Fluids	..	21			
Pharyngeal swabs	..	2	..	..	23
Tuberculosis—					
Sputum	..	292			
Pus	..	39			
Urine	..	90			
Pleural Fluids	..	18			
C. S. Fluids	..	21			
Lymphatic Glands	..	30			
Complement fixation tests		8	..	..	498

## VENEREAL DISEASE.

Wassermann test	..	602			
Microscopic	..	16	..	..	618

## RINGWORM.

Hairs for spores	..	29	..	..	29
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## PATHOLOGICAL SPECIMENS.

Pathological specimens		49	..	..	49
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## MILK EXAMINATIONS.

Fresh Milk	..	391			
Pasteurised	..	23			
Special examinations for Tubercle Bacillus	..	73	..	..	487

## WATER AND FOOD STUFFS.

Water	..	2	..	..	2
Ice Cream	..	9			
Potatoes, Fish, Chicken, Ham, etc.	..	13	..	..	22

## VACCINES.

Autogenous Vaccines		84			
Tuberculins	..	16	..	..	100

Unclassified examinations		484	..	..	484
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 4,437

TABLE I.

## SWABS EXAMINED FOR DIPHTHERIA.

Month	Throat Swabs.	Pos.	Neg.	Nasal Swabs	Pos.	Neg.	Doctors	Hospitals	Total
January .. ..	272	59	213	4	0	4	48	228	276
February .. ..	209	22	187	6	2	4	27	188	215
March .. ..	221	26	195	4	0	4	35	190	225
April .. ..	129	24	105	2	0	2	15	116	131
May .. ..	124	19	105	0	0	0	25	99	124
June .. ..	78	15	63	2	0	2	13	67	80
July .. ..	73	17	56	4	0	4	17	60	77
August .. ..	97	28	69	3	1	2	24	76	100
September .. ..	94	13	81	7	1	6	22	79	101
October .. ..	134	30	104	2	0	2	36	100	136
November .. ..	136	20	116	4	0	4	18	122	140
December .. ..	93	8	85	4	1	3	33	64	97
Total .. ..	1660	281	1379	42	5	37	313	1389	1702

8 Swabs from the Vagina were also examined with negative results.

45 Specimens were submitted to a direct examination, 11 of which were positive.

45 Swabs were examined from Diphtheria contacts, one of which was found to be a positive carrier.

TABLE II.

## Blood from suspected cases of Enteric Group Infection.

Each Specimen was examined by the Macroscopic Method to determine the presence of agglutinins for B. Typhosus, Para-Typhoid A., and Para-Typhoid B.

Month.	Positive.			Negative.			Doctors	Hospitals	Total.
	T.	A.	B.	T.	A.	B.			
January .. ..	7	0	0	3	10	10	Nil.	10	10
February .. ..	4	0	0	7	11	11	1	10	11
March .. ..	6	0	0	10	16	16	3	13	16
April .. ..	4	0	1	2	7	6	1	6	7
May .. ..	1	0	0	5	6	6	2	4	6
June .. ..	3	0	0	8	11	11	5	6	11
July .. ..	3	0	1	7	11	10	5	6	11
August .. ..	6	0	0	3	9	9	0	9	9
September .. ..	10	0	0	7	17	17	3	14	17
October .. ..	5	0	0	5	10	10	2	8	10
November .. ..	4	0	3	1	8	5	2	6	8
December .. ..	1	0	0	1	2	2	Nil.	2	2
Total .. ..	54	0	5	59	118	113	24	94	118



TABLE III.

## Examination of Cerebro-Spinal Fluids.

Month	Tubercle Bacilli		Meningo-coccus.		Pneumococci etc.		Total
	Pos.	Neg.	Pos.	Neg.	Pos.	Neg.	
January .. ..	1	1	1	2	1	0	6
February .. ..	0	4	0	1	0	0	5
March .. ..	0	5	0	2	0	0	7
April .. ..	0	0	0	0	0	0	0
May .. ..	2	2	0	1	0	0	5
June .. ..	0	1	0	2	0	0	3
July .. ..	0	3	0	1	1	0	5
August .. ..	0	0	0	1	1	1	3
September .. ..	0	1	1	3	2	1	8
October .. ..	0	0	0	3	0	0	3
November .. ..	0	1	0	2	0	0	3
December .. ..	0	0	0	1	1	0	2
Total .. ..	3	18	2	19	6	2	50

A cell count was carried out on 4 of these Specimens.

4 Specimens were submitted to a Bio-Chemical examination.

## TUBERCULOSIS.

TABLE IV.

## Sputum from Suspected cases of Tuberculosis.

Sent by			Positive	Negative	Total
City Hospitals .. ..	..	..	9	56	65
Private Practitioners within the City ..	..	..	53	174	227
Total .. ..	..	..	62	230	292

## SPECIAL INVESTIGATION.

During the year a new Vaccine for the treatment of Tuberculosis (diaplyte) was introduced by Professor Dreyer.

An investigation of this treatment was carried out by a Committee of Medical experts in the City for the Medical Research Council.

By permission of the Public Health Committee I was enabled to serve on the committee, and investigate some experimental Pathological problems, in connection therewith, in the laboratory.

This work included the experimental investigation of the efficiency of this Vaccine, the experimental diagnosis of Gland and Joint Tuberculosis from the Municipal Hospital for Tuberculous Children, Graymount, and other sources, with reference to the type of the infecting organism.

In addition several strains of this Diaplyte Vaccine were produced in the laboratory, for use in connection with the investigation.

These investigations have not yet been completed.

## Examination carried out under the Venereal Diseases Scheme.

The number of Specimens submitted for examination during the year was 618.

## SOURCE OF SPECIMENS.

County Borough of Belfast	..	..	..	..	602
Do. Antrim	..	..	..	..	6
Do. Down	..	..	..	..	6
Do. Fermanagh	..	..	..	..	2
Do. Tyrone	..	..	..	..	1
Other Sources	..	..	..	..	1
Total	..	..	..	..	618

79 of these Specimens were submitted for examination by private practitioners in the City, the remaining specimens (539) were submitted by Clinics, Hospitals, etc.

The specimens examined consisted of :—

Detection of Spirochaetes	..	..	..	..	1
Detection of Gonococci	..	..	..	..	15
Wassermann Reaction Blood	..	..	..	..	591
Wassermann C. S. F.	..	..	..	..	11

## \* WASSERMANN TEST.

(Method M. R. C. No. 1).

	No. of Tests.	No. Positive.	No. Negative.
Stage of Syphilis indicated by Clinical Report :—			
Primary .. .. .	18	8	10
Secondary—			
Untreated .. .. .	25	11	14
Treated .. .. .	10	5	5
Tertiary .. .. .	98	42	56
Latent—			
Untreated .. .. .	196	56	140
Treated .. .. .	103	53	50
Congenital .. .. .	117	34	83
Particulars not stated .. .. .	11	0	11
Non-Syphilitic Diseases .. .. .	14	0	14
Total .. .. .	592	209	383

\* in 51 of these cases specimens were taken from patients who were sent to the Laboratory by private Practitioners, etc., etc.

Of 11 Cerebro-Spinal Fluids submitted for examination, 3 gave a positive result.

## Examination of Hairs for Ringworm.

29 specimens were submitted from the School Medical Officer for examination for Ringworm, 8 of these specimens showed infected with Ringworm.

## Pathological Specimens.

These consisted of Tumours etc., and were submitted by various Hospitals, and the City Veterinarian. A large number of these were referred to The Consulting Pathologist (Professor Symmers) for his diagnosis and report.

## MILK EXAMINATIONS FOR THE YEAR 1923.

During the year 487 bacteriological examinations were carried out.

391 of these Samples were fresh milk.

23 of these Samples were Pasteurised.

73 of these Samples were specially examined for Tubercle Bacilli.

Table I. shows the number and Classification of examinations per month.

	Fresh Milk.	Pasteurised Milk.	Specially examined for Tubercle Bacilli.	Total.
January .. .. .	34	Nil.	14	48
February .. .. .	24	Nil.	7	31
March .. .. .	30	4	10	44
April .. .. .	39	Nil	9	48
May .. .. .	55	4	5	64
June .. .. .	48	Nil	13	61
July .. .. .	33	3	1	37
August .. .. .	46	6	2	54
September .. .. .	20	4	Nil	24
October .. .. .	5	Nil	1	6
November .. .. .	40	Nil	3	43
December .. .. .	17	2	8	27
Total .. .. .	391	23	73	487

Table II. shows source of Samples of Fresh Milk examined.

TABLE II.

	Street.	Shop or Milk Shop	Railway Termini.	Other Sources.	Total.
January .. .. .	18	Nil	16	Nil	34
February .. .. .	22	Nil	2	Nil	24
March .. .. .	12	9	9	Nil	30
April .. .. .	20	9	10	Nil	39
May .. .. .	27	20	8	Nil	55
June .. .. .	26	4	16	2	48
July .. .. .	3	18	12	Nil	33
August .. .. .	18	16	12	Nil	46
September .. .. .	16	Nil	4	Nil	20
October .. .. .	Nil	Nil	4	1	5
November .. .. .	28	Nil	8	4	40
December .. .. .	1	11	4	1	17
Total .. .. .	191	87	105	8	391

## RESULTS OF EXAMINATIONS.

Of this Number (391) of fresh Samples of Milk, 177 contained Bacillus Coli in one hundredth of a cubic Centimetre. (45%).

In 39 samples or 10% Bacillus Coli was entirely absent.

98 samples or 25% showed Bacillus Coli in one thousandth of a Cubic centimetre.

301 samples or 77% showed less than 200,000 organisms per cubic centimetre.

In 98 samples or 23% this figure was exceeded.

224 samples examined for the presence Bacillus Enteritidis-Sporogenes—a contamination from dust or Manure showed this organism present in 63 or 28%.



## MEAT INSPECTION.

The following is a summary of the work carried out under the supervision of the City Veterinarian (Capt. J. M'C. Barry, M.R.C.V.S.)

Table showing the number and kind of animals slaughtered and inspected in the Public Abattoir during the year (1st April, 1923—31st March, 1924) also the number of carcasses condemned (for all causes) as being unsound and unfit for human food :—

(The figures for the preceding year are given for comparison.)

SPECIES.	Number Slaughtered		Number Condemned.	
	1923-24	1922-23	1923-24	1922-23
Cows ..	15,351	16,503	360	320
Heifers ..	636	1,057	16	9
Bullocks ..	21,542	20,572	18	21
Bulls ..	1,329	1,374	6	4
Calves ..	3,783	4,806	35	40
Sheep & Lambs ..	67,277	73,702	82	77
Goats ..	713	788	1	2
Pigs ..	26,102	14,270	33	34

The following table shows the prevalence of Tuberculosis amongst the animals slaughtered in the Abattoir during the period under review, also the results of adjudication :—

(The figures for the preceding year are given for comparison.)

## 1923-1924.

SPECIES.	Slaughtered. Number.	TUBERCULAR.					
		Affected.		Destroyed.			
		Number.	Percentage.	Totally.		Partially.	
				Number.	Percentage.	Number.	Percentage.
Cows ..	15,351	1,950	12.70	235	12.05	1,715	87.94
Heifers ..	636	73	11.47	5	6.84	68	93.15
Bullocks ..	21,542	289	1.34	12	4.15	277	95.84
Bulls ..	1,329	82	6.17	2	2.41	80	97.56
Calves ..	3,783	..	..	..	..	..	..
Sheep & Lambs ..	67,277	..	..	..	..	..	..
Goats ..	713	..	..	..	..	..	..
Pigs ..	26,102	55	.21	7	12.72	48	87.27

## 1922-1923.

Cows ..	16,503	2,036	12.33	255	11.05	1,811	88.95
Heifers ..	1,057	53	5.01	7	13.20	46	86.78
Bullocks ..	20,572	250	1.21	13	5.20	237	94.80
Bulls ..	1,374	77	5.60	3	3.89	74	96.10
Calves ..	4,806	..	..	..	..	..	..
Sheep & Lambs ..	73,702	..	..	..	..	..	..
Goats ..	788	..	..	..	..	..	..
Pigs ..	14,270	31	0.21	7	22.58	24	77.41

The following table shows the percentage by age and condition of the animals slaughtered and condemned for Tuberculosis;—

SPECIES.	BY AGE.							
	From one month to one year	Per-centage	From one to three years	Per-centage	From 3 to 6 years	Per-centage	Over six years	Per-centage
	Cows	..	..	..	..	2	0.85	233
Heifers	..	..	4	80.00	1	20.00	..	..
Bullocks	..	..	2	16.66	10	83.33	..	..
Bulls	..	..	1	50.00	1	50.00	..	..
Pigs	..	..	7	100.00	..	..	..	..

SPECIES.	BY CONDITION.									
	Good		Fair		Indifferent		Poor		Very Poor.	
	Number	Per-centage	Number	Per-centage	Number	Per-centage	Number	Per-centage	Number	Per-centage
Cows	14	5.96	59	25.10	97	41.27	65	27.65	..	..
Heifers	..	..	1	20.00	3	60.00	1	20.00	..	..
Bullocks	4	33.33	3	25.00	3	25.00	2	16.66	..	..
Bulls	..	..	2	100.00	..	..	..	..	..	..
Pigs	..	..	7	100.00	..	..	..	..	..	..

#### INSPECTION OF MEAT PREPARED OUTSIDE THE CITY BOUNDARY.

	BEEF			MUTTON		VEAL	PORK	GOATS
	Sides	Quarters	Cuts	Carcases	Cuts	Carcases	Carcases	Carcases
Examined ..	2446	397	1652	3057	35	12	9	51
Condemned ..	10	32	4	12	..	4	1	3

	HEADS		TONGUES	HEARTS		LUNGS		LIVERS	
	Beef	Mutton	Beef	Beef	Mutton	Beef	Mutton	Beef	Mutton
Condemned	12	..	13	1	..	68	..	112	84

## INSPECTION OF PORK IN THE MARKET.

The following table shows the number of carcasses of Pork inspected in the Market and results :—

Submitted for Inspection	Condemmed
795	2

## INSPECTION OF CATTLE IN DAIRIES.

The number of Registered Cowkeepers inside the City Boundary was 129, a decrease of 2 from the previous year.

Their premises at the time of inspection accommodating 2,141 Milch Cows. Systematic inspection was carried out, the cows being carefully examined as to their health, condition, cleanliness, etc., and generally speaking were found to be satisfactory.

## APPENDIX.

## RETURN OF ANIMALS SLAUGHTERED IN THE PUBLIC ABATTOIR.

(The figures for the preceding year are given for comparison.)

Species.	1923—24	1922—23
Cattle .. ..	38,858	39,506
Calves .. ..	3,783	4,806
Sheep and Lambs .. ..	67,277	73,702
Pigs .. ..	26,102	14,270
Goats .. ..	713	788
Total, ..	136,733	133,072

TABLE II.

Return of Diseased Organs seized and destroyed in the Abattoir as unfit for human food during the year :—

	CATTLE.					Sheep.	Pigs.	Goats.	Total.
	Cows.	Heifers.	Bulls.	Bull'cks	Calves				
<b>LUNGS :—</b>									
Abscess .. ..	23	..	1	2	..	..	..	..	26
Congestion .. ..	20	..	..	4	..	..	9	..	33
Cysts .. ..	46	..	..	5	..	..	8	..	59
Pleurisy .. ..	46	2	1	11	..	..	6	..	66
Actinomycosis .. ..	..	1	..	1	..	..	..	..	2
Tuberculosis .. ..	1704	60	78	266	..	..	45	..	2,153
<b>HEARTS—</b>									
Tuberculosis .. ..	32	2	2	13	..	..	11	..	60
Pericarditis .. ..	..	..	..	2	..	..	..	..	2
Congestion .. ..	2	..	..	1	..	..	3	..	6
<b>LIVERS :—</b>									
Abscess .. ..	166	17	11	71	..	..	..	1	266
Angiomatosis .. ..	110	..	..	..	..	..	..	..	110
Cirrhosis .. ..	2433	122	170	414	..	..	16	..	3,155
Distomatosis .. ..	1	1	..	2	1	1786	..	3	1,794
Echinococcus .. ..	10	1	..	2	..	..	107	..	120
Neoplasms .. ..	20	..	..	..	..	..	..	..	20
Tuberculosis .. ..	93	8	7	27	..	..	30	..	165
Congestion .. ..	27	..	..	6	..	..	15	..	48
<b>UDDERS :—</b>									
Abscess .. ..	10	..	..	..	..	..	..	..	10
Mastitis .. ..	539	..	..	..	..	..	..	..	539
Tuberculosis .. ..	1	..	..	..	..	..	..	..	1
<b>HEADS :—</b>									
Actinomycosis .. ..	..	1	1	3	..	..	..	..	5
Tuberculosis .. ..	34	4	2	17	..	..	10	..	67
<b>TONGUES :—</b>									
Actinomycosis .. ..	..	1	1	2	..	..	..	..	4
Tuberculosis .. ..	34	4	2	17	..	..	10	..	67
Injured .. ..	..	..	..	1	..	..	..	..	1
<b>KIDNEYS :—</b>									
Cysts .. ..	22	2	..	1	..	..	2	..	27
Congestion .. ..	10	..	..	..	..	..	2	..	12
Nephritis .. ..	24	1	..	1	..	..	..	..	26
Tuberculosis .. ..	1	..	2	..	..	..	..	..	3
<b>BOWELS :—</b>									
Tuberculosis .. ..	22	2	..	8	..	..	..	..	32
Abscess .. ..	..	..	..	1	..	..	1	..	2
<b>STOMACHS :—</b>									
Abscess .. ..	1	..	..	..	..	..	..	..	1
Tuberculosis .. ..	35	2	2	17	..	..	..	..	56
Congestion .. ..	..	..	..	..	..	..	3	..	3

Under Neoplasms are included Carcinoma, Sarcoma, etc.

N.B.—The foregoing tables does not include the viscera of animals totally destroyed.



TABLE III.

Return of Meat, etc., seized at the Meat Inspection Station as being unsound and unfit for human food. (Meat prepared outside the City Boundary).

10 Beef Sides.	32 Beef Quarters.
4 Beef Cuts.	12 Beef Heads.
1 Beef Heart.	13 Beef Tongues.
68 Beef Lungs.	6 Beef Kidneys.
112 Beef Livers.	12 Mutton Carcasses.
68 Mutton Livers.	4 Carcasses of Veal.
3 Goat Carcasses.	1 Carcase of Pork.
28 Rabbits.	

TABLE IV.

Return of Carcasses of Animals seized in the Abattoir during the year :—

	CATTLE.					Sheep and Lambs	Goats.	Pigs.	Total.
	Cows.	Heifers.	Bulls.	Bull'cks	Calves				
Decomposed .. ..	3	2	2	1	3	28	..	5	44
Dropsical .. ..	11	3	..	1	1	32	1	2	51
Emaciated .. ..	21	..	..	1	1	2	..	3	28
Enteritis .. ..	..	..	..	..	5	..	..	..	5
Neoplasms .. ..	22	..	..	..	1	1	..	..	24
Jaundice .. ..	2	..	..	..	2	1	..	2	7
Peritonitis .. ..	1	..	..	..	..	2	..	..	3
Pneumonia .. ..	..	..	..	..	..	..	..	2	2
Injured .. ..	4	1	..	1	..	5	..	..	11
Fever .. ..	28	2	..	1	3	2	..	4	40
Septicæmia .. ..	26	3	2	1	1	7	..	3	43
Tuberculosis .. ..	235	5	2	12	..	..	..	7	261
Inflammation .. ..	3	..	..	..	15	1	..	5	24
Asphyxia .. ..	..	..	..	..	1	..	..	..	1
Pericarditis .. ..	3	..	..	..	..	..	..	..	3
Melanosis .. ..	1	..	..	..	1	..	..	..	2
Other Conditions .. ..	..	..	..	..	1	1	..	..	2
<b>Total, .. ..</b>	<b>360</b>	<b>16</b>	<b>6</b>	<b>18</b>	<b>35</b>	<b>82</b>	<b>1</b>	<b>33</b>	<b>551</b>

NOTE.—In addition to the above carcasses 20 cwt. 3 qrs. 8 lbs. of Injured Beef ; 1 cwt. 2 qrs. 3 lbs. of Injured Mutton ; 19 lbs. of Injured Pork ; 41 cwt. 3 qrs. 2 lbs. of Tubercular Beef ; 6 cwt. 2 qrs. 18 lbs. of Decomposed Beef and 3 qrs 18 lbs. of Decomposed Mutton were seized and destroyed.

The foregoing is a brief summary of the year's work and in conclusion I desire to express my thanks to the Staff of the Department for the manner in which they have carried out their duties, and to the Manager of the Abattoir for his whole-hearted co-operation.

JOHN M'CLURE BARRY,  
City Veterinarian.

City Veterinarian's Office,  
Belfast, 21st May, 1924.

## FACTORY AND WORKSHOP ACTS, 1901-1907.

Summary of inspections and of sanitary improvements carried out under the supervision of the Department, in pursuance of the provisions of above Acts.

## FACTORIES.

- 424 visits were made to factories.
- 71 nuisances were found to exist.
- 34 statutory notices were served for sanitary defects, etc.
- 25 verbal notices were given for sanitary defects, etc.
- 48 complaints were received from H.M. Inspector of Factories.
- 18 complaints were received from other sources.
- 1 summons was issued.

## SANITARY IMPROVEMENTS.

No. of Factories in which improve- ments were carried out.	Nature of Improvements.
4 ..	Water closet accommodation provided.
3 ..	Additional water closets provided.
2 ..	Insanitary water closets removed and new water closets provided.
5 ..	Water closets repaired.
17 ..	Water closets cleansed.
2 ..	Floors of water closet apartments cleansed.
10 ..	Water closet apartments ventilated.
1 ..	New soil and ventilation pipe provided.
5 ..	Cisterns of water closet repaired.
20 ..	Intervening ventilated spaces provided to water closets.
1 ..	Intervening space ventilated.
4 ..	Drains cleansed.
2 ..	Drains repaired.
1 ..	Yard concreted.
6 ..	Water supply for drinking provided.
1 ..	Main roof repaired.
1 ..	Miscellaneous nuisances abated.

## WORKSHOPS.

- 1,804 workshops on register on 1st January.
- 115 registered during the year.
- 29 removed from register during the year.
- 1,890 on register at close of year.
- 1,905 visits made.
- 260 nuisances found to exist.
- 125 statutory notices were served for sanitary defects, etc.
- 111 verbal notices given for sanitary defects, etc.
- 1 summons was issued for sanitary defects, etc.
- 16 complaints were received from H.M. Inspector of Factories.
- 19 complaints were received from other sources.

## SANITARY IMPROVEMENTS.

No. of Workshops in which improvements were carried out.	Nature of Improvements.
3 ..	Water closet accommodation provided.
8 ..	Water closets provided with intervening ventilated spaces.
4 ..	Water closet provided with means of ventilation.
34 ..	Water closets cleansed.
32 ..	Water closets repaired.
4 ..	Water closet cleansed and repaired.
8 ..	Water closet cisterns repaired.
4 ..	Water closet apartments repaired.
4 ..	Water closet roofs repaired.
1 ..	New flushing cistern provided.
3 ..	Waste pipes cleansed and repaired.
1 ..	Perforated covering provided to disconnecting trap.
3 ..	Drains cleansed and repaired.
6 ..	Spouting cleansed and repaired.
1 ..	Spouting cleansed.
7 ..	Spouting repaired.
4 ..	Walls of workshops repaired.
3 ..	Floors of workshops repaired.
41 ..	Workshops cleansed.
57 ..	Workshops limewashed.
1 ..	Workshop provided with additional means of ventilation.
2 ..	Stairs cleansed.
1 ..	New stairs provided.
1 ..	New ceiling provided.
3 ..	Flues provided to gas iron heaters.
3 ..	Gully traps cleansed and repaired.
21 ..	Tiling repaired or relaid.
2 ..	Dustbins provided.
24 ..	Roofs repaired.
1 ..	Skylight repaired.
3 ..	Smoke nuisances abated.
2 ..	Overcrowding of workshops reduced.
4 ..	Miscellaneous nuisances abated.

## WORKPLACES.

- 346 visits were made to workplaces.  
 53 nuisances were found to exist.  
 27 statutory notices were served for sanitary defects, etc.  
 22 verbal notices given.  
 8 complaints with regard to insanitary conditions were received.  
 1 summons was issued for sanitary defects.

## SANITARY IMPROVEMENTS.

No. of Workplaces in which improve- ments were carried out.	Nature of Improvements.
1 ..	Water closet accommodation provided.
2 ..	Water closet provided with new doors.
12 ..	Water closets repaired.
2 ..	Water closets cleansed and repaired.
1 ..	Water supply provided.
1 ..	New soil and ventilation pipe provided.
1 ..	Drains cleansed and repaired.
5 ..	Roofs repaired.
3 ..	Spouting repaired.

1	..	Roof of water closet repaired.
1	..	Floor of water closet repaired.
12	..	Tiling, flooring, etc., repaired.
10	..	Floors cleansed.
2	..	Walls limewashed.
2	..	Accumulations of trade refuse removed.

## BAKEHOUSES.

- 372 visits were made to bakehouses.  
 58 nuisances were found to exist  
 7 statutory notices for sanitary defects, etc., were served.  
 44 verbal notices for sanitary defects were given.  
 4 complaints regarding insanitary conditions were received.

## SANITARY IMPROVEMENTS.

No. of Bakehouses in which improve- ments were carried out.		Nature of Improvements.
1	..	Water closet accommodation provided.
3	..	Water closets cleansed.
1	..	Water closets repaired.
1	..	New water closet apartment provided.
2	..	Roofs repaired.
1	..	Roof of water closet repaired.
1	..	Trade refuse removed.
1	..	Overcrowding abated.

All bakehouses were limewashed or otherwise cleansed at least twice during the year. In 40 instances it was found necessary to notice the persons responsible to have the limewashing, etc., carried out.

## SHOPS.

- 3,633 visits were made under the Shop Hours Acts, 1892-1895, the Seats for Shop Assistants Act, 1899, the Belfast Corporation Act, 1911, and the Public Health (Ireland) Acts.  
 146 breaches of the various Acts were discovered.  
 322 statutory notices for sanitary defects, etc., were served.  
 194 verbal notices for sanitary defects, etc., were given.  
 15 complaints re sanitary defects were received.  
 3 summonses for sanitary defects, etc., were issued and 1 Justices' Order obtained.

TABLE No. 32.  
HOME WORK.

	OUTWORKERS.										Inspections of Outworkers' Premises.	Outwork in Unwholesome Premises.		Outwork in Infected Premises.		Visits to Employers' Premises	
	Lists received from Employers.					Prosecutions.  Failing to send Lists.	Notices Served on Occupiers as to Keeping or Sending Lists.	Instances	Notices Served.	Instances		Orders Made.					
	Sending Twice in the Year.		Sending Once in the Year.														
	Lists.	Outworkers. Contractors.	Workmen	Lists.	Outworkers. Contractors.								Workmen				
Wearing Apparel— Making, Cleansing and Washing ..	208	6	548	11	..	23	..	655	..	..	..	..	..	..	..	..	..
Household Linen ..	151	398	3398	12	19	73	..	3861	..	..	..	..	..	..	..	..	..
Furniture and Upholstery	4	..	4	..	..	..	..	8	..	..	..	..	..	..	..	..	..
Paper Bags and Boxes	5	..	25	..	..	..	..	52	..	..	..	..	..	..	..	..	..
Total ..	368	404	3975	23	19	96	431	4576	....	..	..	..	..	..	..	..	..

The approximate number of outworkers over which the department required to exercise supervision during the year was 1,500. The names and addresses of 1,302 outworkers and 304 contractors who resided outside the city were forwarded to the District Council of the district in which they resided. 67 sanitary defects, &c., were discovered and remedied. All work found on infected premises was disinfected.

## SANITARY IMPROVEMENTS, Etc.

No. of Shops. in which improve- ments were carried out.	Nature of Improvements.
51 ..	Cleansed.
93 ..	Dwelling-houses connected with shop cleansed.
75 ..	Walls, ceilings or roofs repaired.
2 ..	Use of shop as sleeping apartment discontinued.
29 ..	Rooms adjoining shop ceased to be used as sleeping apartments.
7 ..	Shops which did not comply with provisions of the Belfast Corporation Act given up.
5 ..	Sale of food discontinued in shops which did not comply with the provisions of the Belfast Corporation Act.
1 ..	Sale of food on same premises as second-hand clothes, furniture, etc., discontinued.
1 ..	Storage provided for food.
95 ..	Tiling or flooring repaired.
6 ..	Spouting cleansed.
18 ..	Spouting repaired.
22 ..	Spouting cleansed and repaired.
1 ..	Limewashed.
45 ..	Water closet apartments repaired.
4 ..	Water closets cleansed.
20 ..	Water closets cleansed and repaired.
99 ..	Water closets repaired.
9 ..	Drains cleansed and repaired.
2 ..	Waste pipes repaired.
27 ..	Cisterns of water closets repaired.
9 ..	Yards cleansed.
2 ..	Gully or disconnecting traps cleansed and repaired.
21 ..	Dustbins provided.
4 ..	Ashpits removed.
8 ..	Miscellaneous nuisances abated.

## COMMON LODGING HOUSES.

Number on Register at 1st January .. .. .	58
New registrations effected during the year .. .. .	1
Number removed from Register during the year .. .. .	2
Number of lodgers for whom there was accommodation .. .. .	1,816
Number of visits during the year .. .. .	2,255
Nuisances discovered .. .. .	159
Breaches of Bye-Laws .. .. .	100
Statutory notices served for abatement of nuisances .. .. .	59
Verbal notices given for abatement of nuisances .. .. .	215

The accommodation varied from 5 to 326 persons to a house.

On visiting the lodging houses your officer paid special attention to the general condition of the premises, including cleanliness, lighting and ventilation, and also to the condition of the bedding. The prevention of overcrowding was strictly enforced.

All the houses were limewashed regularly and the bedding cleansed or renewed at intervals.

No case of infectious disease occurred in any of the houses during the year.

A number of sanitary defects were discovered for which notices were served on the owners or persons responsible.

## SANITARY IMPROVEMENTS, ETC.

No. of Houses in which improve- ments were carried out.	Nature of Improvements.
2 ..	Ashpits abolished.
7 ..	Bins provided.
4 ..	Ceilings repaired.
2 ..	Chimney Flues repaired.
1 ..	Chimney rebuilt.
1 ..	Cistern repaired.
6 ..	Drains cleansed.
3 ..	Drains cleansed and repaired.
1 ..	Firegrate repaired.
2 ..	New floorings provided.
16 ..	Roofs repaired.
7 ..	Spouting repaired.
13 ..	Tiling repaired or relaid.
2 ..	Walls repaired.
1 ..	Waste pipes provided to sinks.
2 ..	Water closet sites cemented.
3 ..	Water closets cleansed.
9 ..	Water closets repaired.
1 ..	New window frame provided.
2 ..	New seats provided to water closet.
2 ..	New basins provided to water closets.
3 ..	Water supply provided.

## LODGING HOUSES (OTHER THAN COMMON).

Number on Register, 1st January .. .. .	736
Number removed from Register during the year .. .. .	4

## Distribution of Houses according to Sanitary Divisions.

North .. .. .	258	East .. .. .	76
South .. .. .	281	West .. .. .	120

All the houses were regularly visited during the year.

## NATIONAL SCHOOLS.

During the year 2,379 visits were paid by the Sanitary Sub-Officers to the various schools in the City. On 987 of these visits the number of pupils in attendance was found to exceed the school accommodation, but in a large number of instances the excess attendance was small.

Immediate remedial measures were taken for the abatement of any nuisances discovered, and the following is a summary of the sanitary improvements carried out.

No. of Schools in which improvements were carried out.	Nature of Improvements.
5 ..	Roofs repaired.
2 ..	Spouting repaired.
10 ..	Water closets cleansed and repaired.
4 ..	Drains cleansed.
1 ..	Tiling repaired.
1 ..	Skylight repaired.
1 ..	Accumulation of refuse removed.
1 ..	Dustbin provided.

## REPORT OF THE SCHOOL MEDICAL OFFICER.

### INTRODUCTORY.

MR. CHAIRMAN, LADIES AND GENTLEMEN,

The following is the First Annual Report on the work of the School Medical Services carried out in Belfast in the terms of the Public Health (Medical Treatment of Children) (Ireland) Act, 1919, and the memoranda issued by the Local Government Board, Ireland, which is replaced by the Education Act (Northern Ireland) 1923.

In carrying out the work the Staff has made upwards of 76,700 inspections.

It would not have been possible to carry through so much, during the first year, had we not had the loyal co-operation of not only the members of the Staff but also that of the majority of the principal teachers and their assistants.

There have been occasions on which our work has appeared to some to be unnecessary and disturbing but the recognition that it is useless to try and teach debilitated or otherwise defective children will, I have no doubt, call forth in the future greater efforts from those who may be lukewarm in their enthusiasm for the children's benefit.

From the parents' point of view, the initiation of the service has, on the whole, met with approval.

As a general rule those who have objected are of that body of parents who are either careless of or unable to attend to their children's welfare.

In presenting this report I have to return thanks to the members of the Committee for the sympathetic help they have given at the initiation of a service new to the Belfast public, to Dr. Bailie, Medical Superintendent Officer of Health, for assistance in overcoming initial difficulties; to the Chief School Attendance Officer and his staff for making the service known to parents and co-relating our work with that of that department.

The various members of the Staff are deserving of credit in that they have carried out during the short period that they have been in existence a relatively large amount of work without stirring up that opposition which would have been fatal to a new scheme.

I have the honour to be,

Your obedient Servant,

T. F. S. FULTON,  
Chief School Medical Officer.

#### GENERAL STATISTICS.

Population of Belfast .. .. .	..	..	..	..	434,000
Number of Scholars on Register, 1923 .. .. .	..	..	..	..	63,095
Number of Scholars on Register between 6-14 years of age .. .. .	..	..	..	..	59,370
Number of Schools .. .. .	..	..	..	..	191
Number of Departments .. .. .	..	..	..	..	280
Number of School Buildings .. .. .	..	..	..	..	194

#### GENERAL.

The School Medical Services were initiated by the Belfast Corporation as far back as October, 1921.

The scheme formulated was put into operation by the first officer taking up duty in January in 1923.



The Public Health Committee decided to take over the Staff and premises of the Dental Clinic for National School Children, which had been in operation since 1913.

These premises situated at 122 Great Victoria Street were adapted for the purposes of the work and, although cramped, permitted a beginning to be made. In May, the additional medical, nursing and clerical staff were appointed and work was commenced in earnest at the beginning of June.

Various difficulties were met with, the chief being that the Committee had no control over any of the National Schools in the city and therefore the work was carried on by the grace of the Managers of these institutions.

The teachers were asked to help and did so by picking out, as far as they were able, any defective children in their respective schools.

#### STAFF.

The Staff appointed consists of:—

- One whole-time Medical Officer.
- Two part-time Medical Officers.
- One part-time Specialist for eye, ear, nose, and throat work.
- Two part-time Dentists.
- Three whole-time Nurses. . .
- One whole-time Dental Assistant.
- One Clerk.
- One Office Boy.
- One Caretaker.

#### SECTION I.

##### GENERAL HYGIENIC CONDITIONS OF THE SCHOOL BUILDINGS.

It is impossible, at this date, to give a detailed survey of the conditions of each school building in Belfast.

That work will be set forth in coming reports.

Suffice it to say here that of the 194 buildings:—

- (i) 53 are totally unsuitable for school premises ;
- (ii) 29 are graded as to be replaced as time serves ;
- (iii) 100 are satisfactory or can be made so ;
- (iv) 11 are good ;
- (v) 1 is in the course of building.

One new school, Memel Street, was opened during the past year. It will in a very short period of time fall into grade II.

The majority of schools have either no or insufficient playground space. A very large number have stained glass windows which not only give inadequate light and are difficult to keep clean, but also by their structure do not permit of proper ventilation.

The majority of desks in Belfast schools are of old-fashioned types, usually of maximum size which do not cater for smaller children and incidentally permit of overcrowding. Where there is an insufficiency of desks, forms are used. The use of such seating accommodation must be strongly condemned. Children are expected to write while sitting on such forms and nothing could be worse than the faulty positions so produced.

There is a type of accommodation known as the "gallery." It consists of a terraced floor on which is crowded tier upon tier of fixed low forms, without backs. It is usually placed in a small ill-ventilated room. This method of furnishing must also be strongly condemned.

Its use is defended by teachers as being suitable for combined class work such as singing. Against that the particular point must be raised that singing is one of the healthiest forms of exercise due to the increased oxygenation of the blood, which cannot take place when 100 children are cramped into the floor space which normally should accommodate 30 or 50. It is defended by the argument that the children only occupy these forms for half an hour daily.

There is a fallacy in this because necessarily every child in the school is condemned to diminished air space for that time every day, with a consequential total loss of oxygen to the children at a much higher figure than at first appears.

From the educational point of view, one cannot see how it is going to benefit a child by being taught correct writing while sitting at a desk and then being allowed to do written work while sitting on a form or in a gallery.

## SECTION II.

### GENERAL SURVEY OF THE SCOPE OF THE WORK.

#### 1. VISITS TO SCHOOLS.

228 visits by Medical Officers have been made to the 191 schools within the Borough, for the purposes of Medical Inspection. To this number must be added 197 visits paid in connection with the inauguration of the services, making the total 425.

#### 2. THE CHILDREN EXAMINED WERE SELECTED AS FOLLOWS :—

##### A. MEDICAL INSPECTION AT THE SCHOOL—

To commence with and so that the largest possible number of defective children could be seen, those were examined that were known to the teachers to be defective, either having defective eyesight, defective hearing, bronchitis, suffering from tuberculosis, or attending for treatment at any Centres for that disease, being mouth-breathers, crippled, mentally deficient or backward.

It will be seen that a very large number of ailing children were thus dealt with and referred, when treatment was necessary, either to their own doctor and through him to appropriate centres or else to the Clinics.

##### B. MEDICAL INSPECTION AT THE SCHOOL CLINIC—

The work was sub-divided into :—

- (a) Children who were found to require further examination than could be carried out in school.
- (b) Children referred for examination as to their fitness for school either by the teachers or attendance officers, owing to absence through sickness or physical defects.
- (c) Children referred to the eye, ear, nose and throat clinic for examination and treatment.
- (d) Children referred for treatment at the Dental Clinic.

##### C. INSPECTION BY THE SCHOOL NURSES WITH REGARD TO CLEANLINESS—

All children attending school on the day of the Nurses' visits were inspected.

##### D. DENTAL INSPECTION (See below).

#### 3. THE NUMBER OF CHILDREN INSPECTED IN 1923 :—

##### A. SEEN AT SCHOOL—

During the year 10,425 children were examined in School.

##### B. SEEN AT THE DENTAL CLINIC—

During the year 3,252 children were examined at the School Clinics. 1,530 were examined at the Inspection Clinic, and 1,722 at the eye, ear, nose and throat Clinic

##### C. SEEN BY THE SCHOOL NURSES—

59,084 were seen at school by the Nurses with regard to cleanliness. Every school was visited once and 27 were re-visited.

##### D. SEEN BY THE DENTAL OFFICERS AT SCHOOL—

No children were examined in school by the Dental Officers, as their time was fully occupied by treating those referred to the Clinics. This will no doubt be remedied in the future by augmenting the staff, for it is at the ages of 7

and 8 years that children require the dentist's attention to treat the decay of the earliest permanent teeth, to remove obstructing milk teeth, to correct displacements and to generally clean up the child's mouth.

In this connection, it must be mentioned that part of the duty of a school dentist is to give lecturettes in the schools on the reasons for mouth hygiene and its regular maintenance.

#### 4. THE NUMBER OF INSPECTIONS MADE DURING 1923 :—

76,724 inspections were made by the whole staff during the year. Including the preliminary dental inspection prior to treatment made by the dental officers, the number was made up as follows :—

Number of Inspections by Medical Officers at School ..	10,425
Number of Inspections by Medical Officer at Inspection Clinic ..	1,530
Number of Inspections by Specialist at Eye, Ear, etc., Clinic ..	1,722
Number of Inspections by Dental Officers .. ..	3,963
Number of Inspections by School Nurses .. ..	59,084
	76,724

#### 5. THE RELATION OF MEDICAL INSPECTION TO PARENTS :—

There is an increasing sympathy on the part of parents to medical inspection. Where refusals to examine were indicated, it was mostly due to ignorance of the reason for the work. In some cases, though, the dislike of older girls to be examined appears to have regulated the attitude of the parents. This is to be deplored and will later disappear as the younger children become educated up to it.

1,849 attended the inspections at school and there were only 34 refusals.

### SECTION III.

#### DEFECTS FOUND DURING EXAMINATION OF 10,425 SPECIALS.

##### TEETH.

As is to be expected the commonest complaint found amongst children is that of dental caries. 1,673 were found with this condition.

This number does not represent the number of children who could have been put forward by the teachers for inspection as only a very small number were segregated for this defect.

##### DEFECTIVE VISION.

3,505 children were examined and found to suffer from defective vision. Of these 300 had glasses of a sort, some suitable and others requiring replacement.

##### EXTERNAL EYE DISEASES.

711 children were examined and found suffering from some form of external eye disease. A certain proportion were found in conjunction with defective vision and all would, if left without treatment, have led to some impairment of visual acuity.

##### SKIN DISEASES.

181 children were found to have skin disease. All were referred to their own doctor for treatment.

##### EAR DEFECTS.

194 children were found to have some defect of hearing, either due to discharging ears or enlarged tonsils and adenoids causing catarrh.

449 children had discharging ears.

97 had other ear conditions.

#### NOSE AND THROAT CONDITIONS.

Of 1,930 children examined 1,836 had enlarged tonsils and/or adenoids, of these 959 required operation and the remainder other treatment.

94 had other nose and throat conditions.

#### ENLARGED NECK GLANDS.

This condition is associated with enlarged tonsils and adenoids; 32 children were found with this defect mostly in conjunction with throat conditions.

#### DEFECTS OF SPEECH.

518 were found to have defective speech either due to defective articulation or to stammering. Defective articulation is very often due to deformity of the mouth following rickets and therefore is almost incurable. Stammering on the other hand is, in the greater percentage of cases, curable, though a certain number, due to a nervous element being present, never improve.

#### HEART DISEASE.

128 children were found to have some affection of the heart. They were, where not already under medical supervision, referred to their own doctor.

#### LUNG CONDITIONS (other than Tuberculosis).

151 children were found suffering from lung conditions, which, where the defect warranted, were referred to their own doctors.

#### TUBERCULOSIS.

291 children were found suffering from or were suspected of tuberculosis in one form or other. Except for those already under treatment, they were all referred to the Inspection Clinic, when those considered definitely to require treatment were passed on to the Tuberculosis Institutes.

#### NERVOUS CONDITIONS.

131 children were found to have some defect of the nervous system.

Very often these cases do not really require medical so much as home treatment. Especially is this seen when children are allowed to keep late hours or parental control is slackened in other ways.

#### CHILDREN WITH DEFORMITIES.

Under this heading come children with deformities due, amongst other causes, to rickets, infantile paralysis. The number found was 131.

#### MENTALLY DEFECTIVE AND BACKWARD.

148 were classified as backward or mentally deficient. 79 of the former and 69 of the latter. This number does not give any indication of the number of the children in the area, who fall into this group, as not every child about whom there was a doubt as to its mental capacity was put forward by the teacher for examination.

### SECTION IV.

#### NURSES' WORK AND CLEANLINESS INSPECTIONS.

The Nurses have made 59,084 inspections in the schools for cleanliness purposes. They found that 13.48 per cent. had nits or the eggs of vermin in their hair and 2.38 per cent. were verminous. All the latter class were turned out of school till clean. In addition the Nurses assisted the Medical Officers at times of inspection and carried out the clerical work incidental thereto.

They paid 2,339 visits to homes in connection with defects found at inspections and informed the parents of the action necessary in the respective cases.

## SECTION V.

## RESUME OF THE WORK CARRIED OUT AT THE CLINICS.

## 1. INSPECTION CLINIC—

At the Inspection Clinic 1,530 children were examined. The larger proportion were referred by attendance officers for certification as to fitness or otherwise for school.

Some as a consequence of inspection at school were invited with their parents to attend for further and fuller examination. Of these 98 were referred to the Tuberculosis Institutes for observation and treatment where necessary.

By arrangement with the Secretary of the Juvenile Advisory Committee of the Ministry of Labour Employment Exchange candidates for employment have been sent for medical examination. Three were examined, the number being small because the arrangements did not come into force till the end of November.

## 2. EYE, EAR, NOSE AND THROAT CLINIC—

Your Specialist examined and prescribed glasses for 678 children. The spectacles are supplied to the authority by a local optician at a flat rate of 6/6 per pair and passed on to parents at 7/6, the extra shilling covering drugs, postages and other charges incidental to the work.

Parents, who desire, can pay for the glasses by instalments. Those, whose circumstances are such that they are unable to pay, have glasses supplied free, due inquiry having been made. 9 free pairs have been issued.

During the year 389 cases of external eye disease were examined and treated. The parents were instructed how to carry out treatment at home and the children returned periodically for inspection.

481 cases of ear, nose and throat conditions attended the Clinic for advice and treatment.

When operation was advised, the parents were instructed to arrange for the work to be done through their own doctor and failing that through him by the local hospitals.

No operations have been carried out at the Clinic as the premises are not only unsuitable but space inadequate.

The parents of 174 children who attended the Clinic in regard to eye, ear, nose and throat conditions were advised that no treatment was necessary for their particular case, or were referred to specialists, the latter procedure being adopted when it was considered from the circumstances of the parents that they could pay the usual fees.

The treatment at the Clinic is so much appreciated that many children are referred there by parents on their own initiative.

At the close of the year the method of treating running ears by zinc ionisation, a form of electrical treatment was inspected at Glasgow. Its use in some of the cases under observation has been recommended and it is hoped will soon be started when circumstances and staff permit. It undoubtedly cuts short the duration of a good proportion of ear cases.

## 3. DENTAL CLINIC—

The work of the Dental Clinic consequent on Medical Inspection in the schools has increased. The details are set out in the subjoined table and cover the full year's working.

The figures for the period 1st April, 1922—31st March, 1923 are given to show the increase in work done.

The children were referred by teachers, parents, doctors and nurses, the two latter only during the six months during which medical inspection was in operation, otherwise doubtless the figures would be still larger.

During the first six months of the year general anaesthetics were only given once monthly, whereas during the second moiety the anaesthetic day was held every two weeks.

The charge for dental treatment is one shilling per annum per child, obligatory on every parent whose child attends. Previously it was a voluntary payment and the change does not seem to have decreased the number of children attending. This charge covers all treatment and so includes a general anaesthetic.

Total Attendances		Extractions	Anaesthetics	Dressings	Fillings	Scalings	Other Operations	TOTAL.
1922-23	3129	5541	785	417	826	224	275	7968
1923	3963	7421	1121	496	803	230	313	10384

1923	New Patients	Return Patients	Total Attendances	Extractions		Anaesthetics		Fillings	
				Temporary Teeth	Permanent Teeth	Local	General	Temp Teeth	Perm. Teeth
	2416	1574	3963	6128	1293	873	248	231	572

### REVIEW OF THE WORK.

The following points are brought out by the year's work :—

The present staff is totally inadequate and there is urgent need for extension.

The present premises are on the small side for the present staff and hamper the work by not being central enough.

That minor ailment treatment is the first extension of the Clinic that should be put into operation and for this more nursing staff is required.

That already teachers and parents are agreed that the Eye Clinic has fulfilled all expectations.

That some arrangement, either clinic or hospital, by which operations for tonsils and adenoids might be carried out is badly needed.

That the condition of the children's heads leaves a lot to be desired and that to overtake this more nursing staff is required with centres where cleansing can be carried out as is done elsewhere.

T. F. S. FULTON.

28th June, 1924.

## SMOKE NUISANCE.

During the year 16 instances of black smoke being emitted in such quantities as to be a nuisance were dealt with under Section 107 of the Public Health (Ireland) Act, 1878.

## OFFENSIVE TRADES.

During the year 344 visits were made to the premises in which offensive trades were carried on throughout the City in order to ensure that the Bye-Laws with respect to same were being complied with.

## RAG FLOCK ACT.

20 visits were paid to premises where flock was used in the manufacture of bedding, etc.

## LEGAL PROCEEDINGS.

	Summonses	Orders	Fines.		
			£	s	d
Under Public Health Acts :—					
For abatement of nuisances .. .. .	698	138	17	5	0
Disobedience of Justices' Orders .. .. .	24	..	8	13	0
Breach of Sec. 51 Public Health (Ireland) Act, 1878 .. .. .	2	..	—		
Failing to provide a urinal .. .. .	1	..	1	0	0
Failing to remove manure within prescribed period .. .. .	4	..	0	14	6
Exposing unsound beef for sale for the food of man .. .. .	1	..	5	0	0
Conveying unsound carcase of a pig for the purpose of sale for the food of man .. .. .	1	..	—		
Having unsound carcase of a pig on premises for the purpose of sale for the food of man .. .. .	1	..	3	0	0
Having on premises unsound fruit (pears) intended for the food of man .. .. .	1	..	—		
Exposing unsound eggs for sale for the food of man .. .. .	1	..	5	0	0
Bringing meat within the City Boundary and failing to submit for inspection .. .. .	1	..	0	5	0
Under Dairies, Cowsheds and Milkshops (Ireland) Order .. .. .	12	..	14	12	6
Under Bye-Laws for the Regulation of Piggeries .. .. .	3	..	1	5	6
Under Bye-Laws with respect to Common Lodging Houses .. .. .	2	..	1	10	0
Under Bye-Laws for the decent and seemly conveyance of meat through the public thoroughfares .. .. .	13	..	5	15	0
Under Housing of the Working Classes Act .. .. .	3	3	—		
Under Belfast Corporation Act .. .. .	1	..	0	10	0
Under Diseases of Animals Acts :—					
Sheep Dipping .. .. .	9	..	6	12	6
Sheep Scab .. .. .	6	..	10	0	0
Under Sale of Food and Drugs Acts .. .. .	..	..	168	15	0

## RAINFALL.

The following Table, kindly supplied by Mr. W. I. Quinn, Secretary to the Belfast City and Districts Water Commissioners, shows the rainfall in inches during the several months of the year 1923, as recorded at the Water Works at Old Park, compared with the preceding ten years.

TABLE No. 33.

	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923
January ..	4.71	3.59	5.32	2.78	2.26	2.87	4.48	4.78	5.42	4.62	4.84
February	1.27	3.89	4.52	3.75	2.38	5.05	1.65	1.83	0.57	3.84	6.39
March ..	3.10	4.66	1.07	1.77	2.96	1.21	3.76	2.72	2.24	1.28	2.53
April ..	4.14	1.57	2.11	4.24	1.71	1.83	1.07	2.50	0.89	3.62	3.28
May ..	4.58	1.68	.99	4.71	5.46	3.30	1.24	3.40	1.52	1.67	1.43
June ..	2.77	1.32	1.72	1.98	2.22	1.56	2.04	2.96	0.21	2.18	0.49
July ..	1.74	2.05	4.10	2.30	2.33	3.58	0.17	2.37	3.22	3.52	1.60
August ..	1.06	3.20	3.59	1.60	5.81	3.29	3.29	2.17	3.18	3.63	7.40
September	3.94	1.66	1.28	0.74	2.07	5.89	3.26	2.36	1.71	1.98	4.34
October ..	4.36	1.71	3.06	9.11	6.26	5.04	1.70	6.57	4.21	1.82	5.80
November	4.24	5.94	2.60	3.89	4.84	5.04	3.07	3.26	2.97	1.39	4.20
December	3.60	8.19	6.29	2.33	2.67	5.41	7.41	5.67	3.73	2.86	5.78
Total	39.51	39.46	36.56	39.20	40.97	44.07	33.14	40.59	29.87	32.41	48.08



TABLE No. 24

## SANITARY REPORT FOR THE YEAR 1923.

## DISPENSARY DISTRICT

	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	XI.	XII.	XIII.	XV.	XVI.	TOTAL.
<b>Houses Inspected :-</b>																
Systematically ..	205	638	761	3359	442	3670	82	..	357	3311	..	120	25	1134	40	14144
Re-Inspections ..	4480	9576	11527	8050	3130	7955	571	5747	4634	12108	7382	4437	3394	5630	3850	92371
For Specific Purposes ..	1213	2586	2807	2231	1044	1944	69	522	1886	1874	1654	1052	896	3372	836	23686
<b>Where Infectious Diseases occurred</b>																
Inspections ..	45	178	169	196	50	147	6	9	77	56	197	159	135	48	81	1553
Re-Inspections ..	126	610	496	585	133	430	36	25	185	144	434	379	406	151	134	4274
<b>Re Infantile Mortality--</b>																
Inspections ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Re-Inspections ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
<b>Under the Tuberculosis (Prevention) Act--</b>																
Inspections ..	35	80	94	48	35	60	2	9	54	59	45	29	32	70	31	683
Re-Inspections ..	6	28	43	16	6	15	..	1	11	24	1	..	3	8	..	162
<b>Under the Notification of Births Act</b>																
Inspections ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Re-Inspections ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
<b>Under Belfast Corporation Act</b>																
(Midwives)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Inspections ..	25	74	82	45	41	40	6	4	82	21	110	30	24	67	13	664
Re-Inspections ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
<b>Factory and Workshop Acts :-</b>																
<b>Factories--</b>																
Inspections ..	69	58	28	29	29	66	..	1	6	1	20	14	6	55	42	424
Nuisances ..	10	10	2	4	5	11	..	..	1	..	4	3	3	15	3	71
<b>Workshops--</b>																
Inspections ..	339	277	276	52	118	178	..	5	115	68	99	42	44	196	96	1905
Nuisances ..	40	38	35	6	21	22	..	3	16	12	10	5	4	36	12	260
<b>Workplaces--</b>																
Inspections ..	70	31	49	6	38	15	1	..	9	16	9	4	4	76	18	346
Nuisances ..	3	6	9	..	10	1	1	..	3	3	..	..	..	16	1	53
<b>Outworkers' Premises--</b>																
Inspections ..	16	259	137	1215	62	537	..	..	159	69	728	394	108	223	672	4579
Nuisances ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
<b>Bakehouses--</b>																
Inspections ..	21	54	38	35	24	32	..	..	10	11	34	40	22	27	24	372
Nuisances ..	3	9	4	7	3	8	..	..	3	2	6	4	2	5	2	58
<b>Shop Hours Act, Seats for Shop Assistants Act, and Belfast Corporation Act :-</b>																
<b>Confectionery--</b>																
Inspections ..	193	494	605	42	262	136	..	..	392	355	126	30	73	485	48	3241
Breaches of Acts ..	8	25	17	1	11	7	..	..	15	6	3	1	1	31	5	131
<b>Ice Cream--</b>																
Inspections ..	90	33	46	12	16	16	..	..	14	9	10	9	8	45	10	318
Breaches of Acts ..	1	..	..	1	1	1	..	..	1	..	..	..	..	2	..	7
<b>Vegetable and Fruit--</b>																
Inspections ..	..	..	1	..	..	1	..	..	..	..	..	3	..	1	..	6
Breaches of Acts ..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1
<b>Grocery--</b>																
Inspections ..	1	..	2	..	..	..	..	..	..	..	..	..	..	1	..	4
Breaches of Acts ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
<b>Others--</b>																
Inspections ..	7	5	9	1	10	4	..	..	6	7	..	2	1	11	1	64
Breaches of Acts ..	..	2	3	..	..	..	..	..	..	1	..	1	..	..	..	7

DISPENSARY DISTRICT

	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	XI.	XII.	XIII.	XV.	XVI.	TOTAL.
<b>Schools—</b>																
Inspections	162	182	283	217	209	207	20	58	124	172	285	110	57	164	129	2379
<b>Common Lodging Houses :—</b>																
Inspections—Day	452	733	6	82	522	15	3	..	1	3	..	..	..	364	73	2264
"  Night	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
Breaches of Bye-Laws	30	26	..	..	32	..	..	..	..	..	..	..	..	1	..	100
Nuisances	33	53	..	..	57	..	..	..	..	..	..	..	..	9	7	189
<b>Under the Dairies, Cowsheds and Milkshops Order :—</b>																
<b>Cowsheds—</b>																
Inspections	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Breaches of Order	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
<b>Milkshops—</b>																
Inspections	219	482	476	332	191	408	37	12	221	256	507	505	145	379	231	4401
Breaches of Order	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
<b>Under the Bye-Laws for the Regulation of Offensive Trades :—</b>																
Inspections	37	..	25	23	..	178	..	..	..	..	..	..	..	17	64	344
Breaches of Bye-Laws	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
<b>Tipping Grounds :—</b>																
Inspections	59	11	..	117	..	107	2	48	32	140	239	23	5	..	..	783
Nuisances	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
<b>Black Smoke :—</b>																
Observations made	22	3	1	4	..	..	..	..	..	..	1	2	3	20	1	57
<b>Graveyards :—</b>																
Inspections	..	7	..	36	..	77	9	..	14	45	..	9	4	..	..	201
Breaches of Burying Ground Regulations	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
<b>Marine Stores :—</b>																
Inspections	..	10	92	..	8	..	..	..	..	..	..	..	..	1	..	111
Nuisances	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
<b>Public Urinals :—</b>																
Inspections	686	30	115	67	145	314	14	48	148	202	5	1	..	50	8	1833
Nuisances	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1
<b>Amusement Halls :—</b>																
Inspections	339	36	43	43	81	..	..	6	..	..	..	7	..	24	6	585
Nuisances	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
<b>Rivers :—</b>																
Inspections	..	1	..	2	9	3	..	2	6	23	..	..	..	2	..	48
Nuisances	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
<b>Drain Tests :—</b>																
Requests	3	9	11	8	1	20	1	..	..	5	23	23	9	7	16	136
Defective	1	4	4	6	1	11	..	..	..	3	14	18	5	7	13	87
New Work	4	17	11	19	4	2	..	..	1	..	7	..	16	1	4	86
Defective	1	..	..	1	1	..	..	..	..	..	..	..	9	1	..	13
Typhoid Fever	3	3	6	2	..	3	1	1	2	3	2	3	1	1	..	35
Defective	3	1	4	1	..	1	1	1	..	..	..	..	..	..	..	14
Diphtheria	5	28	45	42	13	24	4	..	16	3	11	20	15	19	10	255
Defective	2	9	31	15	5	9	2	..	7	2	4	12	6	4	1	109
Continued Fever	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Defective	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
<b>Schools</b>																
Defective	5	62	23	9	8	9	..	..	11	17	1	..	..	3	..	148
Others	5	53	17	7	8	6	..	..	11	17	1	..	..	2	..	127
Defective	21	119	96	80	26	58	6	1	30	28	44	46	41	35	30	661
do. Defects	12	67	56	30	15	26	3	1	18	22	20	31	20	15	14	350

## SANITARY REPORT (continued)

## DISPENSARY DISTRICT

	I.		II.		III.		IV.		V.		VI.		VII.		VIII.		IX.		X.		XI.		XII.		XIII.		XV.		XVI.		TOTAL.											
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B										
Nuisances Discovered and Complained of:—																																										
Drains, Traps, etc., Foul or Defective	223	137,476	179,298	152,370	120,210	65,414	106	21	3	29	31	123	105,132	70,154	88,179	124,175	52,279	108,385	118,3408	1458																						
Tiling, Paving, or Flooding Defective	122	53,377	165,327	170,379	115,888	59,287	66	32	2	19	8	198	123,602	159,426	139,283	106	64	27,286	70,187	61,3677	1323																					
No Water Closet Accommodation	2	3	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
Water Closets Foul or Defective	149	69,316	141,250	127,341	87,125	43,202	83	21	13	3	133	81,438	107,222	111,190	118	48	21	313	75,143	70,2904	1136																					
No Ashpit Accommodation	19	17,30	42,23	23,18	18,7	4,22	13	2	1	3	11	18	25	10	4	4	17	5	26	21	6	8	17	18	230	202																
Ashpit Defective, Dilapidated or Unsuitable	50	23,809	152,276	69,273	53,45	22,146	41	2	2	7	4	43	16,140	28,61	46	87	34	33	12,66	37,69	36,1007	575																				
Sink Waste Pipes Defective, or want of	6	3,23	14,28	16,16	4,8	1,25	7	1	1	5	2	7	7,17	26,24	9,35	10	5	2	6	5	17	7	223	113																		
Soil and Ventilation Pipes Defective	361	155,849	294,816	339,165	121,233	118,507	139	65	5	37	15,311	168,609	199,510	134,462	148	89	47	185	111,362	186,5562	2179																					
Roof or Spouting Defective, or want of	36	11,116	4,35	9,28	6,73	2,49	3	1	1	282	16	4,255	5,97	3,24	5	3	1	72	3,26	5,1112	61																					
Premises Dirty	59	60,188	148,92	164,177	114,11	42,361	105	8	5	2	4	21	71,35	54,216	91,157	82	65	31,270	74,160	74,1822	1119																					
House or Premises Damp	1	1	5	2	2	2	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
General Dilapidation	4	4	2	2	5	5	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
Insufficient Light or Ventilation	2	19	9	30	6	23	32	16	3	3	18	17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
Offensive Smells	7	5	18	16	8	24	4	13	2	2	4	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Fowl or Animals Kept																																										
Accumulation of Manure or other Offensive Matter	47	19,24	27,31	26,28	22,4	6,52	27	4	2	2	16	21	19	14,54	28,46	14,40	20	47	24,36	9,448	264																					
No Domestic Water Supply, or Improper	8	15,10	15,17	18,6	9,9	4,18	2	2	1	4	8	5	24	11,5	7,9	3	1	1	7,6	2	125	101																				
Black Smoke																																										
Passages Dirty	1	4	3	16	6	17	6	3	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Schools Dirty																																										
Schools Overcrowded	48	53	106	86	69	29	2	2	2	4	1	2	2	4	1	6	2	6	85	87	987																					
Houses Overcrowded	4	5	2	5	3	7	2	2	2	4	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Offensive Privies																																										
Miscellaneous	122	75,273	110,226	147,123	49,64	54,214	54	19	2	16	7	87	66	220	81,982	63,249	76	61	21,224	73,225	60,2605	938																				

## SANITARY REPORT (continued)

## DISPENSARY DISTRICT

	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	X.	XI.	XII.	XIII.	XV.	XVI.	TOTAL.
House Drains Cleaned	354	502	355	415	255	466	21	32	186	160	250	250	175	303	482	4176
House Drains Repaired	17	104	81	28	4	32	3	3	11	10	25	28	13	30	42	431
Pipe Drain Laid in Providing Houses with New Drains	33	56	118	308	278	1112	..	..	202	96	1091	48	1409	1030	98	5879
Gully and Disconnecting Traps put on House Drains	9	33	24	4	1	55	..	..	..	1	6	..	..	30	1	164
Houses had the Tiling, Paving, or Flooring Repaired	151	553	437	472	158	340	27	115	349	714	481	381	57	248	240	4723
Water Closets Erected	2	1	..	..	..	..	..	..	..	..	..	..	..	..	..	5
Water Closets Repaired	189	379	344	417	163	268	14	49	218	501	307	295	56	269	213	3712
Ashbins Provided	78	222	189	224	69	100	4	90	66	64	89	105	35	47	82	1464
Houses Provided with New Sinks	..	2	..	..	..	..	..	..	1	..	1	..	..	..	2	6
Houses Provided with New Soil and Ventilation Pipes	1	3	..	1	..	3	..	..	4	..	..	..	..	1	..	14
Houses have had the Roofs Repaired	257	670	593	273	267	489	33	48	328	408	409	360	104	332	399	4970
Houses have had the Spouting Repaired	201	573	423	202	117	261	35	32	193	370	478	257	60	168	257	3627
Houses have been Cleansed or Whitewashed	20	78	31	22	25	22	..	16	17	33	18	16	3	35	20	356
Houses have had the Yard Walls Limewashed	..	..	1	..	38	16	..	304	..	216	85	..	..	..	..	660
Houses (that were overcrowded) had the Number of Inmates Reduced	3	2	2	2	7	3	..	..	1	5	2	4	1	3	1	36
Houses closed	..	..	..	..	2	..	..	..	..	2	..	1	..	..	..	5
Houses have had Minor Repairs Effected	264	613	457	203	175	231	40	47	180	344	389	307	54	250	280	3834
Miscellaneous Nuisances Abated	96	266	229	180	69	104	19	19	123	97	114	70	66	63	88	1603

## PORT SANITARY AUTHORITY.

During the year 1,986 visits were made for the inspection and re-inspection of vessels entering the Port ; of these 1,580 were primary and 406 were subsequent inspections. 1,141 vessels arrived from ports situated in the United Kingdom, and 439 from foreign ports.

The foreign ports from which vessels arrived were :—

Adelaide	..	2	Halifax	..	1	Oddevale	..	1
Almeria	..	3	Hamburg	..	61	Patras	..	1
Amsterdam	..	29	Havre	..	8	Pernau	..	1
Antwerp	..	19	Houston	..	1	Petrograd	..	1
Baltimore	..	6	Huelva	..	2	Philadelphia	..	14
Beaumont	..	1	Ivica	..	1	Pomeron	..	1
Beira	..	1	Karachi	..	4	Port Elizabeth	..	1
Bjorka	..	1	Karlsburg	..	1	Portland O.	..	4
Bona	..	3	Karlsham	..	2	Port Pirrie	..	1
Boulogne	..	2	Kime	..	1	Quebec	..	3
Braila	..	2	La Paullice	..	1	Rangoon	..	2
Bremen	..	1	La Plate	..	1	Rapsa	..	1
Brisbane	..	1	Las Palmas	..	1	Riga	..	8
Banbury	..	1	Leghorn	..	1	Reval	..	2
Buenos Ayres	..	1	Libau	..	1	Rosario	..	16
Calais	..	2	Lyseikel	..	1	Rotterdam	..	47
Calcutta	..	2	Malage	..	2	San Lorenzo	..	1
Capetown	..	3	Mexico	..	1	San Nicholas	..	2
Castelion	..	1	Miramichi	..	6	Skelleftea	..	1
Catania	..	1	Montreal	..	9	Soderham	..	2
Dunbar	..	7	Newcastle N.B.	..	2	St. John's	..	8
East London	..	2	New Orleans	..	12	Sundsvall	..	2
Frederickstadt	..	4	Newport News	..	2	Sweden	..	2
Freemantle	..	4	New York	..	4	Valencia	..	19
Gandia	..	1	Norfolk, Va.	..	5	Vancouver	..	1
Ghent	..	42	Norrkjoping	..	2	Wallaroo	..	1
Gothenburg	..	21						

The nationality of these vessels was as follows :—

American	..	..	..	36
British	..	..	..	1,368
Danish	..	..	..	11
Dutch	..	..	..	75
French	..	..	..	1
German	..	..	..	43
Greek	..	..	..	5
Italian	..	..	..	1
Latvian	..	..	..	1
Norwegian	..	..	..	26
Spanish	..	..	..	3
Swedish	..	..	..	13

Insanitary conditions were found to exist on board 244 of these vessels, and the Masters or other responsible Officers were noticed in connection therewith.

To comply with the terms of the notices, the following work was carried out .—

- 1 ship had the crew's quarters painted.
- 78 ships had the crew's quarters cleansed.
- 120 ships had the crew's quarters and water closets cleansed.
- 45 ships had the water closets cleansed.

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The following return shows the names and the number of vessels which had sickness on board during the voyage :—

Name of Vessel.				Disease.
S.S. Bolten	..	..	..	Diphtheria.
„ Rhodesia	..	..	..	Typhoid.

The patients were removed to Purdysburn Fever Hospital, the quarters and clothing disinfected, the bedding destroyed and all necessary precautions taken to prevent the spread of the disease.

The following foodstuffs were seized as being unfit for the food of man :—

- 98 lbs. of figs.
- 142 packages of tomatoes.
- 98 cases of oranges.
- 33 baskets of plums.

INQUEST CASES.

TABLE No. 35.

CAUSE OF DEATH.	Under 1 year.		1 and under 5 years.		5 and under 15 years.		15 and under 25 years.		25 and under 45 years.		45 and under 65 years.		65 years and upwards.		Age unknown.		Total		Grand Total.
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Accidents—Run over	..	..	5	1	3	3	1	2	1	4	2	3	2	..	15	13	..	28	
Various Injuries	..	..	..	..	2	..	3	..	4	1	..	..	..	..	14	1	..	15	
Bullet Wounds	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	
Convulsions	1	2	..	1	..	..	1	..	..	..	..	..	2	..	1	3	..	4	
Drowning	..	..	..	..	1	..	..	..	3	..	..	..	..	..	7	1	..	8	
Fracture of Skull	..	..	..	..	..	..	..	..	3	..	..	1	..	..	6	1	..	7	
Heart Failure due to Disease	1	..	..	..	..	..	..	4	4	7	8	1	3	..	16	12	..	28	
Heart Failure due to Alcohol	..	..	..	..	..	..	..	1	1	1	1	..	..	..	1	1	..	2	
Inattention at Birth	5	4	..	..	..	..	..	..	..	..	..	..	..	..	5	4	..	9	
Overlying	3	2	..	..	..	..	..	..	..	..	..	..	..	..	3	2	..	5	
Shock following Burns	..	..	3	2	1	3	..	2	..	1	..	..	..	..	4	11	..	15	
Scalds	..	..	2	5	2	2	..	..	..	..	..	..	..	..	4	7	..	11	
Stillborn	4	2	..	..	..	..	..	..	..	..	..	..	..	..	4	2	..	6	
Suffocation	3	1	..	..	..	..	..	..	..	..	..	..	..	..	3	1	..	4	
Suicide	..	..	..	..	..	..	..	..	3	1	4	..	..	..	8	5	..	13	
Poisoning by Gas	..	..	..	..	..	..	..	..	1	1	3	..	..	..	1	2	..	3	
Poisoning, Acid	..	1	..	..	..	..	..	..	1	1	1	..	..	..	1	2	..	3	
Natural Causes	..	1	..	..	..	..	..	..	..	1	10	..	1	..	12	7	..	19	
Septicæmia	..	..	1	1	..	2	..	..	..	..	..	..	..	..	1	6	..	7	
and } due to Burns	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Toxæmia	..	..	2	..	..	..	..	..	..	1	..	..	..	..	2	1	..	3	
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	109	81	..	0	

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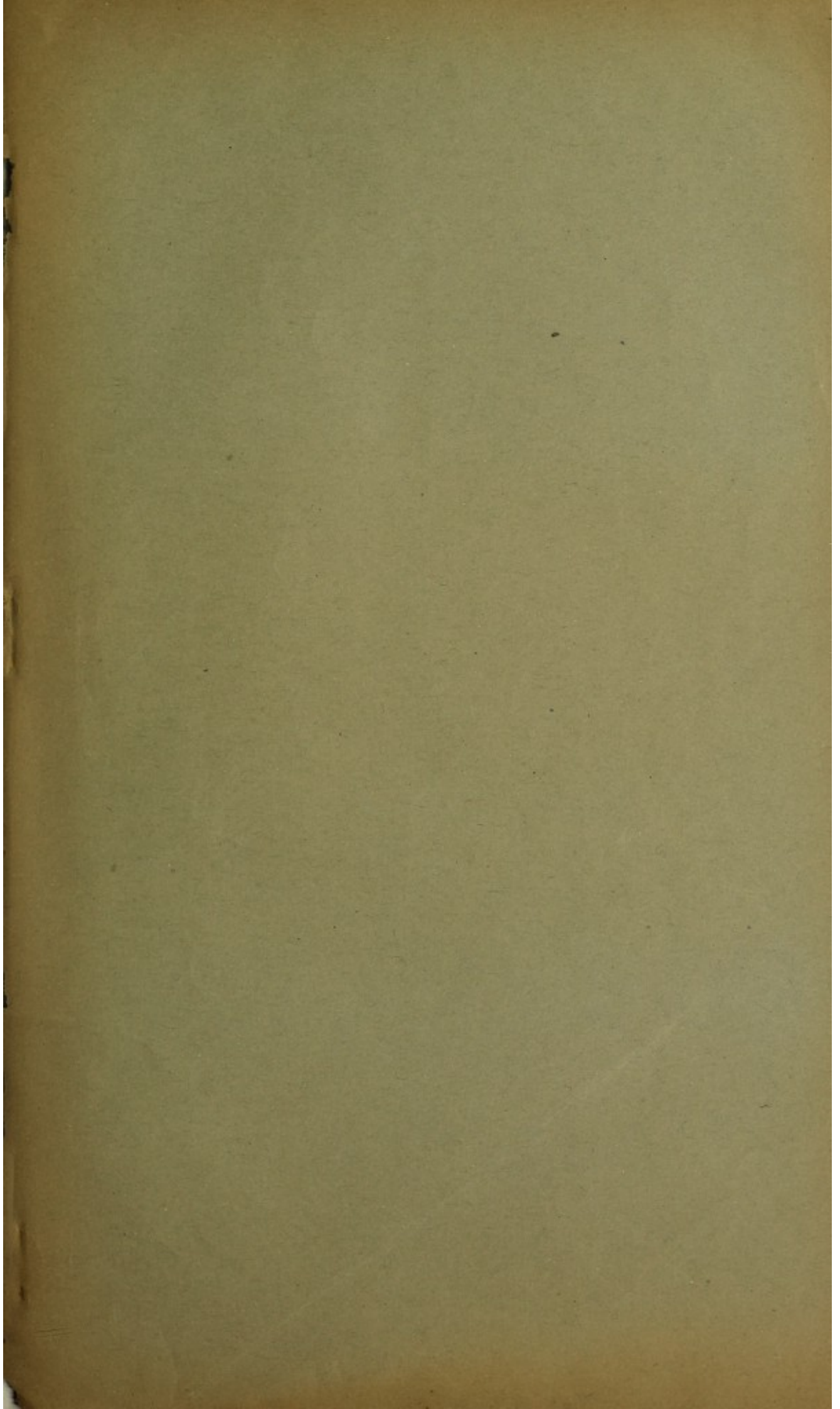
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