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### REPORT

ON THE



Health of the County Borough of Belfast for the Year 1959





### REPORT

ON THE

Health of the County Borough of Belfast FOR THE YEAR 1959

WILLIAM GEORGE SWANN, M.D., B.Sc., D.P.H., D.P.A.

Medical Officer of Health

### Health Committee 1959

### Chairman:

Councillor SAMUEL HAROLD WALSH

### Deputy Chairman:

Councillor JAMES ROBERT CLELLAND McCLURG

### Aldermen:

THOMAS GIBSON HENDERSON
ROBERT GEORGE CALDWELL KINAHAN, E.R.D., J.P.
EDWARD FITZGERALD McENTEE, M.B.
CHARLES DALEY
Major WILLIAM DUNCAN GEDDIS, J.P.

### Councillors:

HERBERT JEFFERSON, J.P., M.A., Ph.D. (Died August, 1959)

JOHN SAMUEL ROLSTON HARCOURT
Miss IRENE MARGARET ELIZABETH McALERY
WILLIAM ATCHESON
WILLIAM BOUCHER, J.P.
JAMES ROBERT CLELLAND McCLURG
SAMUEL HAROLD WALSH
Mrs. MARJORIE SINCLAIR
ALBERT ERNEST QUINN
HUGH ROBERT BROWN, M.Com.Sc.
LESLIE STEWART, J.P. (in place of Councillor Jefferson)

### HEALTH DEPARTMENT STAFF AS AT 31st DECEMBER, 1959

Medical Officer of Health and Port Medical Officer:—
W. G. Swann, M.D., B.Sc., D.P.H., D.Obst. R.C.O.G., D.P.A.

Deputy Medical Officer of Health and Deputy Port Medical Officer:—
J. McA. Taggart, M.B., D.P.H., D.P.A.

### HEADQUARTERS:-

Administrative Officer:— S. N. Smith, B.Com.Sc.

### Administrative Branch:

3 Receptionist/Operators.

### Accounts Branch:-

1 Clerk Higher Division Grade I; 1 Clerk Higher Division Grade III; 3 Clerical Assistants.

### Stores Branch:-

1 Clerk Higher Division Grade I; 1 Clerk Higher Division Grade III; 3 Clerical Assistants.

### Registration Branch:

Superintendent Registrar of Births, Deaths and Marriages — J. C. Walker.

1 Deputy Supt. Registrar; 4 Registrars; 2 Deputy Registrars; 3 Copy Typists.

### Typing Branch:-

1 Clerical Officer; 4 Shorthand Typists; 3 Copy Typists.

### ENVIRONMENTAL HEALTH DIVISION:

Senior Medical Officer—W. J. McLeod, M.D., D.P.H., D.P.A., Ph.C. Executive Officer—G. H. Davis.

### Infectious Diseases Branch:

Medical Officer-Vacant; 1 Clerk Higher Division Grade II; 8 Clerical Assistants.

### Sanitary Branch:

Chief Sanitary Officer -J. Walker. Senior Food Inspector -W. Jenkins. Senior Pests and Disinfecting Officer -W. Robinson Senior Inspector of Factories and Shops -P. J. McMahon Senior Smoke Officer -C. Ellison. Divisional Sanitary Officer, South -Vacant Divisional Sanitary Officer, West -F. W. Hill. Divisional Sanitary Officer, East -T. F. Mills. Divisional Sanitary Officer, North —J. Thompson.

7 Food and Drugs Inspectors; 2 Port Sanitary Officers; 2 Factory Inspectors; 1 Smoke Inspector; 25 Sanitary Officers; 4 Pests Officers; 14 Pupil Sanitary Officers.

1 Clerk Higher Division Grade I; 1 Clerk Higher Division Grade II; 1 Clerk Higher Division Grade III; 4 Clerical Officers; 7 Clerical Assistants; 1 Clerical Attendant; 1 Notice

### Meat Inspection Branch:

City Veterinarian—A. McLean, B.Sc., M.R.C.V.S., D.V.H. Senior Meat Inspector—G. F. Moore. 5 Meat Inspectors.

### MATERNITY AND CHILD HEALTH DIVISION:-

Senior Medical Officer - H. A. Warnock, M.D., B.Sc., D.P.H.

Clinic Medical Officer — K. M. Cathcart, M.B., D.P.H.

Medical Officer — E. E. Mercer, M.B., D.P.H.

6 Part-time Medical Officers.

Superintendent Nursing Officer — Miss M. F. J. Baird, S.R.N., S.C.M., H.V. Cert.

Superintendent of District Nurses - Miss M. Watkinson, S.R.N., S.C.M., H.V. Cert., Q.N.

Supervisor of Midwives — Miss M. A. Hay, S.R.N., R.S.C.N., S.C.M.

Assistant Nursing Officers — Miss E. F. Magill, S.R.N., S.C.M., H.V. Cert. Mrs. M. E. Duke, S.R.N., S.C.M., H.V. Cert.

Miss J. Stirling, S.R.N., S.C.M., H.V. Cert.

First Assistant Superintendent of District Nurses:— Miss D. Ritchie, S.R.N., S.C.M., H.V. Cert., Q.N.

Second Assistant Superintendent of District Nurses:— Miss M. Coleman, S.R.N., S.C.M., H.V.Cert., Q.N.

59 Health Visitors; 55 District Nurses; 2 Senior Midwives; 24 Midwives (Salaried); 23 Midwives (Fee-per-case).

Executive Officer—A. Watson, A.C.I.S.

1 Clerk Higher Division Grade II; 3 Clerical Officers; 2 Shorthand Typists; 16 Clerical Assistants; 3 Cook-Housekeepers.

### SCHOOL HEALTH DIVISION:-

Senior Medical Officer — A. L. Walby, M.B., D.P.H.

Clinic Medical Officers:— E. H. Dowse, M.B., D.P.H.

A. D. Campbell, M.B., D.P.H. E. A. M. McMordie, M.B., D.P.H.

Medical Officers:— A. P. Watson, M.B., D.P.H.

G. K. Moffatt, M.B., D.P.H. P. S. Kerr, M.B., D.P.H. D. B. Keith, M.B., D.P.H.

K. McKee, M.D., D.P.H., D.C.H.

K. M. Corbett, M.D., B.Sc., D.P.H., D.C.H.

Chief Dental Officer — A. S. Irving, L.D.S. (R.C.S.)

Clinic Dental Officers — V. M. G. Rattie, L.D.S.

H. C. Thornberry, L.D.S. (R.C.S. (I.))

S. R. Sheane, L.D.S.

P. J. R. Griffith, M.B., L.D.S.

X-Ray Dental Officer — J. R. Faulkner, L.D.S.

Dental Officers — J. H. Dougherty, L.D.S.

W. R. Morrow, L.D.S. J. B. Hanna, L.D.S.

T. S. Brannigan, L.D.S.

J. Boyd, L.D.S.

J. A. N. Turner, L.D.S.

5 Part-time Medical Officers (Anaesthetists)

3 Senior School Nurses; 24 Health Visitors; 1 Speech Therapist (part-time); 2 Physiotherapists; 4 Senior Dental Attendants; 21 Dental Attendants.

Executive Officer — R. T. Curry.

1 Clerk Higher Division Grade II; 1 Clerical Officer; 3 Shorthand Typists; 1 Copy Typist; 11 Clerical Assistants.

### COUNTY BOROUGH OF BELFAST

### Summary of Vital Statistics

Area (Census 1951) (Exclu	sive of 1	,223 acre	es of	
tidal water)				15,357 acres (24 sq. miles)
Population				433,800 (estimate of Registrar General for N.I., June, 1959)
O. T. C.				
Marriage Rate				8.2
Births Registered	••			females)
		. 1050 10		19.3 19.0
Birth Rate average for the				
Illegitimate Births				171 (86 males; 85 females)
Births (notified)		···		11,072
Still Births (included in tota	al births n	iotined)		251
	ol very	A southern	100	4,821 (2,471 males; 2,350 females)
			050	11.1
Death Rate average for the			959	10.9
Deaths of infants under one Infant Mortality Rate	year or a	ge		274 (148 males; 126 females)
Average for the ten years	1950-195	9		33 deaths per 1,000 live births 38 deaths per 1,000 live births
Neo-Natal Deaths (under or				182 (97 males; 85 females)
Neo-Natal Death Rate				22 per 1,000 live births
Average for the ten years	1950-195	9		22 per 1,000 live births
Maternal Deaths	1000			2
Death Rate	2.2			0.24 per 1,000 births registered
Deaths from Communicab Table 9			in	00
Death Rate from these D	iseases			66 0.15
Deaths from Measles	2004505			1
Deaths from Typhoid Fever				N:I
Deaths from Scarlet Fever				Nil
Deaths from Whooping Cou	ah.			Nil
Deaths from Diphtheria	811	4.		7
Deaths from Diarrhoea and	Enteritis			Nil
(under two years of age	)			12
Deaths from Dysentery	S. Carlotte			3
Deaths from Influenza				40
Deaths from Tuberculosis of	f the			
Respiratory System Death Rate from Tubercu	losis of th	ne		62
Respiratory System				0.14
Deaths from Bronchitis	Te. Dine			288
Deaths from Pneumonia				329

### To:

The Right Honourable The Lord Mayor and the Aldermen and Councillors of the Belfast County Borough Council, acting as the Belfast Health Authority and the Belfast Port Sanitary Authority.

My Lord Mayor, Ladies and Gentlemen,

I have the honour to submit my Annual Report for the year 1959.

### Vital Statistics:

The estimated mid-year population has fallen by 2,400 to 433,800. There were 8,365 births registered, an increase of 102 compared with 1958.

There were 4,821 deaths registered, an increase of 3 compared with 1958. 802 persons died from cancer (20 fewer than in 1958). There were 167 deaths from "cancer of the lung"; 137 males, 7 less than in 1958 and 30 females, 2 more than in 1958.

The infantile mortality rate was 32.8. The rate for 1958 was 30. There has been a regrettable increase in the number of deaths from motor vehicle accidents from 25 in 1958 to 41 in 1959, as well as an increase in the number of deaths due to tuberculosis from 58 in 1958 to 68 in 1959. The number of cases of tuberculosis notified however showed a marked decrease to 379 cases, the average number of notifications for the previous four years being 471.

For the fifth successive year no cases of diphtheria were notified. The seven deaths from whooping cough in 1959 occurred in infants less than six months old.

### B.C.G. Vaccination:

Responsibility for making arrangements for B.C.G. Vaccination was transferred, along with other functions, to the Health Authority on 1st April, 1959 when the Northern Ireland Tuberculosis Authority was dissolved. Subsequently routine B.C.G. vaccinations of all new born babies at Maternity Hospitals in the City were discontinued. Some babies did not receive protection against whooping cough during the early months of life as it was advised that no other inoculations be given for three months after B.C.G. vaccination. It is hoped that babies will now receive immunisation against whooping cough as early as 3 months of age. The present policy of carrying out B.C.G. vaccination in the 10 plus age group is continued.

### Atmospheric Pollution:

Six new daily atmospheric pollution recording instruments were installed at the end of 1958 so that records have been obtained from nine sites situated mostly in residential parts of the City during 1959. This has been done in conjunction with the Department of Social and Preventive Medicine Queens University, so that studies could be undertaken of the relation between respiratory disease and atmospheric pollution. The records were made available to a committee set up to advise the Minister of Health and Local Government on the health aspects of atmospheric pollution in Belfast. In addition monthly recordings have been obtained from the monthly instruments as in previous years as well as from two new lead peroxide candles sited in the vicinity of Power Station West.

### Health Education:

A Conference was held on 29th May in co-operation with the Central Council for Health Education. The topic was "School Health and Health Education". This proved of particular interest to the School Medical Officers and Health Visitors from Antrim, Down, and our own Department. An interesting discussion developed concerning the future use of routine medical inspection in schools.

The Health Committee in conjunction with the Education Committee participated in the Exhibition "The Challenge of the Handicapped" sponsored by the Northern Ireland Council of Social Service from 13th to 16th October. A stand demonstrated the services provided by the Committees by means of photographs and diagrams as well as technical and professional techniques employed in the special treatment of the handicapped child.

I wish to thank the Chairman and Members of the Health Committee for their co-operation in promoting the various schemes and projects undertaken.

I also appreciate the continued loyal support of the members of the staff in the work of the Department during the year.

I have the honour to be

My Lord Mayor, Ladies and Gentlemen,

Your obedient servant,

W. G. SWANN,

Medical Officer of Health and Port Medical Officer.

# CAUSES OF DEATH AT DIFFERENT AGE PERIODS, 1959

TABLE 1

		75 & over	1017	-   24	1
		65-74	592	01   01   1   1   1   1   1   1   1   1	1
	Ī	45-64	503	8   5   5   5   5   5   5   5   5   5	
		25-44	76	0-1	1
ES	0	15-24	10	1-1111 11111111 11 1 1 1 1 111 - 11	-
FEMALES	AGED	5-14	=		1
		Ī	15	111111 11101111 11 0 1 1 111 - 11	1
		Total Under 1 year	126	111111 11-11111 11 1 1 1 1 111 - 11	1
		6-11 mths.	15	111111 11111111 11 1 1 1 1 11 - 11	
		1—5 mths.	26	111111 11111111 11 1 1 1 1 1 1 1 1 1 1	
		Under I mib.	28	111111 11-11111 11 1 1 1 1 1 1 1 1 1	
	A.II	Ages	2350	2	
		75 & over	682	4   2   1   2	
		65-74	069	211111 1111111 11 1 2 0 1 8 1-	-
	1	45-64	816	8   8   1   1   1   1   1   8   44	
		25-44	93	8	-
ES	ED ,	15-24	22	-	
MALES	AGED	5-14	13		
		Ī	7	111111 11111111 11 1 1 - 111 1 11	
		Total Under 1 year	148	111110 11011111 1 1 1 1 1 1 1 1 1 1	1
		6-11 mths.	14	11111-110111111111111111111111111111111	
		1-5 mths.	37	111111 11711117 11 7 1 1 111 1 11	
		Under I mth.	97	11111-1111111 11 1 1 1 11 1 7	
	117	Ages	2,471	232 55 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0
	177	Deaths	4,821	28 80 9 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		Causes of Death	All Causes	r Forms quelae ms treptoo treptoo treptoo streptoo strept	Rheumatic Fever
	Abbre-	Viated List Nos.		B1 B	B24

12	301	32	10.00	110	9	11	4014	11	11	11	11	37 58 3 17	1	1	1
6	169	15	1/10	31	+1	7	616160	11	11	11	11	20 m m m m m m m m m m m m m m m m m m m	1	1	1
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10	64	1	11	91	-1	1	1-01	11	11	11	11	= 04-	- 1	1	1
1	11	1	11	11	11	1	-111	64	11	11	11	4-	1	1	1
1	11	1	11	11	1-	-1	11-1	11	11	11	11	-01	1		. 1
1	11	1	11	64	11	1	-111	-	11	11	11	1   001	1	1	1
1	11	1	11	91	11	-	no	18	9 11	- 10	8 +	0   04	1	10	100
1	11	1	11	0	11	-	1111	10	11	11	11	01 -	1		1
1	H	1	11	13	11	1	10	14	1-	11	1-	1-1-1	1	10	1
1	11	1	11	11	11	1	1111	181	6 01	-10	88.8	11111	1		- 1
-	200	55		828		91	110011	35 11	611	-10	38 4	4546e	-		10
	194	17		55			4-86	11	11	11	11	25 1 2 8 5 1 1	-	1	1
	**	-				2000				300	200		100		
-	218	10	11000	34		8		11	11	11	11	2186281	1		1
13	64	12	200	70 20		4	01040	11	11	11	11	24°050	1	1	1
-	33			04.00		-	0   0	1-	11	11	11	18991	1	1	1
- 53	-1	1	11	-1	11	1	11-1	11	11	11	11	1-401	1		1
_ 1	11	1	11	-	11	1	1111	101	11	11	į1	10-01	1	1	1
- 1	11	1	11	-1	-1	-	1111	11	11	11	11	- 61	1	1	1
	11	1	01	18	11	61	-111	27	102	100	31	101-1	-	-	10
	11	1	11	+1	11		4111	1-	11	11	1-	1-111	1	4	1
1	11	1	100	#1	11	01	w	10	11	11	11	10111	1	6	T
	11	1	11	11	11	1	1111	161	202	100	31	1-1-1	-	1	NO.
24	711	40	24	146 196	읽어	19	11129	30	100	110	31	84234	1	7	10
8	1271	92	83	329	33	35	31 31 16	8,12	31	10	169	313 20 20 20 20 313 313	63	12	10
Chronic Rheumatic Heart Disease							Diarrhoea of the newborn.  Cirrhosis of Liver Nephritis and Nephrosis Hayerplasia of Prostate Complications of Pregnancy,	Congenital Malformations Birth Injury, Postnatal As-	phyxia and Atelectasis (a) With Prematurity (b) Without Prematurity Infections of the New-born	(a) With Prematurity (b) Without Prematurity Other Diseases peculiar to	(a) With Prematurity (b) Without Prematurity Senility without mention of		War	Gastro-Enteritis and Colitis of Children under two years of age (included in B.36 and B.43)	(included in B.43)
B25	B27 B28	B29	B30 B31	B32 B33	B34	B36	B38 B39 B40	B41 B42	B43	B44	.B45	BE47 BE47 BE48 BE48 BE49 BE49	DESC	1	
									4			700		-	

### TABLE 2

Age Group (Years)		Deaths		Rate per 1,000 of population of age group (Based on 1951	Percentage of Total Deaths		
	Male	Female	Total	Census figures)	1959	1958	
Under 1 Year	148	126	274	34.5	5.7	5.2	
1-4	7	15	22	0.7	0.5	0.6	
5—14	13	11	24	0.3	0.5	0.4	
15—24	22	10	32	0.5	0.7	0.5	
25-44	93	76	169	1.4	3.5	4.2	
45-64	816	503	1,319	13.9	27.4	25.2	
65—74	690	592	1,282	49.9	26.6	26.6	
75 and over	682	1,017	1,699	139.5	35.2	37.3	

### Principal causes of death in order of importance

### TABLE 3

Heart Disease (B26-27)				 	1,4
Cancer				 ***	1
Vascular Lesions affecting	the Central	Nervous Sy	stem	 	
Pneumonia				 	3
Bronchitis				 	
Violent and Accidental D	eaths	7		 	
Associated with Prematur	rity			 	
Senility and Ill-defined ar	d Unknown	Causes		 	
Pulmonary Tuberculosis				 	

### Comparative Statistics for Counties and County Boroughs, 1959

### TABLE 4

	Ra		Rate per 1,000 live births			
Area	Marriage	Birth	Death	Death rate from Tuber- culosis	Infant Mortality	Maternal Mortality
Northern Ireland Belfast County Borough Londonderry Co. Borough County Antrim County Armagh County Down County Fermanagh County Londonderry County Tyrone	6.8 8.2 8.6 6.2 6.1 5.9 5.3 6.6 6.0	21.9 19.3 31.4 23.4 22.9 20.7 21.0 24.2 23.6	10.9 11.1 10.7 10.3 10.8 11.1 12.8 10.0 11.4	0.10 0.16 0.11 0.07 0.09 0.09 0.08 0.03 0.08	28 33 35 23 30 25 27 32 25	0.55 0.24 1.80 0.50 - 0.95 - 0.76 0.64

Trend of mortality from certain principal causes of death from 1910

TABLE 5

V	Heart ?	Disease	Ca	ncer		onary culosis	Bronchitis, Influenza and Pneumonia		
Year	Number	Rate Per 1,000	Number	Rate per 1,000	Number	Rate Per 1,000	Number	Rate Per 1,000	
1910			_	_	825	2.1	1,538	3.9	
1915	1	_	_	_	813	2.0	1,667	4.1	
1920	_	_	_	_	762	1.8	1,566	3.8	
1925	_	_	-	-	575	1.3	1,163	2.7	
1930	852	2.0	466	1.12	436	1.0	839	2.0	
1935	935	2.0	463	0.99	389	0.89	1,042	2.23	
1940	1,387	3.1	576	1.29	412	0.93	1,001	2.25	
1941	1,277	2.87	570	1.28	426	0.96	773	1.74	
1942	995	2.24	633	1.42	369	0.83	564	1.27	
1943	1,116	2.63	613	1.44	367	0.86	705	1.66	
1944	1,098	2.54	620	1.44	354	0.82	544	1.26	
1945	1,130	2.59	664	1.52	326	0.75	533	1.22	
1946	1,302	2.92	682	1.53	343	0.77	692	1.55	
1947	1,482	3.29	662	1.47	281	0.62	618	1.37	
1948	1,281	2.81	696	1.53	269	0.59	438	0.96	
1949	1,407	3.09	699	1.54	280	0.61	536	1.18	
1950	1,500	3.33	717	1.59	225	0.5	565	1.26	
1951	1,630	3.67	693	1.56	221	0.49	813	1.83	
1952	1,416	3.18	757	1.7	151	0.34	483	1.0	
1953	1,155	2.56	758	1.68	114	0.26	466	1.03	
1954	1,348	3.0	777	1.7	84	0.18	482	1.07	
1955	1,365	3.0	741	1.6	76	0.17	597	1.3	
1956	1,297	2.9	840	1.89	74	0.16	471	1.06	
1957	1,383	3.14	844	1.9	60	0.13	592	1.34	
1958	1,493	3.42	822	1.88	56	0.13	549	1.25	
1959	1,443	3.33	802	1.85	62	0.16	657	1.51	

<sup>—</sup> Signifies information not available

### Comparative Statistics; Belfast, Northern Ireland, England and Wales, Scotland and Irish Republic, 1959

	Belfast	Northern Ireland	England and Wales	Scotland	Irish Republic (See Note)
1. Rates per 100,000 population: Marriages Births Deaths  2. Death Rates per 1,000 live births:	8.2	6.8	7.5	7.8	5.4
	19.3	21.9	16.5	19.1	21.1
	11.1	10.9	11.6	12.1	12.0
Maternal Infant 3. Death Rates per 100,000 population:	0.24	0.55	0.4	0.4	0.7
	33	28	22	28	32
Tuberculosis	16	10	9	11	18
	185	160	206	206	162
(B25—28) Coronary Disease Diphtheria	374	384	370	407	401
	208	186	184	194	132
	Nil	Nil	Nil	1	9

Note: Figures for Irish Republic Provisional

### Population, Births, Birth Rate per 1,000, Deaths, Death Rate per 1,000 and natural increase from 1890

TABLE 7

		Birtl	ns	Deat	hs	Natural
Year	Population	Number	Rate	Number	Rate	Increase
1890	232,222	8,250	35.5	6,861	29.5	1,389
1895	295,000	9,772	33.1	7,168	24.3	2,604
1900	359,000	11,192	31.2	7,642	21.3	3,550
1905	360,000	11,395	31.8	7,178	20.0	4,217
1910	391,167	10,888	27.8	7,284	18.6	3,604
1915	403,000	10,196	25.3	7,220	17.9	2,976
1920	413,000	12,144	29.4	7,234	17.5	4,910
1925	438,000	10,234	23.4	6,131	14.0	4,103
1930	415,151	9,558	22.7	5,451	12.9	4,107
1935	415,151	8,848	21.3	6,238	15.0	2,610
1940	444,500	8,704	19.6	6,583	14.8	2,121
1941	444,500	8,383	18.9	6,641	14.9	1,742
1942	444,500	9,659	21.7	4,973	11.2	4,686
1943	425,000	10,713	25.2	5,511	13.0	5,202
1944	430,800	10,456	24.3	5,176	12.0	5,280
1945	435,900	9,853	22.6	5,069	11.6	4,784
1946	444,687	10,327	23.2	5,326	11.9	5,001
1947	450,000	10,505	23.3	5,289	11.7	5,216
1948	455,020	9,744	21.4	4,684	10.3	5,060
1949	454,340	9,185	20.2	5,226	11.5	3,959
1950	450,000	8,834	19.6	5,082	11.3	3,752
1951	444,222	8,789	19.8	5,433	12.2	3,356
1952	444,200	8,506	19.1	4,778	10.8	3,728
1953	450,800	8,527	18.9	4,653	10.3	3,874
1954	449,100	8,302	18.5	4,810	10.7	3,492
1955	453,900	8,100	17.8	4,752	10.5	3,348
1956	444,800	8,212	18.5	4,632	10.4	3,580
1957	440,100	8,459	19.2	4,899	11.1	3,560
1958	436,200	8.263	18.9	4,818	11.0	3,445
1959	433,800	8.365	19.3	4,821	11.1	3,544

### Deaths from Cancer by Sex and Site

### TABLE 8

Detailed List Nos.	Sites				Males	Females
	Buccal Cavity and Pharynx					
140	Lip				-	_
141	Tongue				2	3
142	Salivary Gland				2	1
143—144	Mouth				-	1
145—148	Pharynx				2	4
	Digestive Organs and Peritoneum					
150	Oesophagus	4.			10	5
151	Stomach				78	51
152—153	Intestines				32	48
154	Rectum				25	17
155—156	Biliary Passages and Liver				18	19
157	Pancreas				21	19
158	Peritoneum					_
159	Other Digestive Organs				-	_
	Respiratory System					
160	Nose, Nasal Cavities, etc.					
161	Larmy					1
162—163	Larynx Trachea, Bronchus and Lungs				9	2
164	Mediactinum				137	30
165	Mediastinum				70	-
	Thoracle Organs (Secondary)	**			1	
	Breast and Genito-Urinary Organs					
170	Breast			100	1	62
171—174	Uterus					27
175	Ovary, Fallopian tube and Broad	Ligame	ent	- 838		13
176	Other Female Genital Organs		1			5
177	Prostate		200		33	_
178	Testis				1	
179	Other Male Genital Organs				3	
180	Tridiley				8	6
181	Bladder and Other Urinary Organ	IS			20	4
	Other and Ilnamacidad Git				3.1	100000000000000000000000000000000000000
190—191	Other and Unspecified Sites				A Charles	THE PERSON NAMED IN
192	Skin				3	3
193	Lyc				_	
194	Brain and other parts of the Nerv	ous Sys	stem		5	1 9 3
195	Thyroid Gland Other Endocrine Glands		**		-	3
196	- The Lindberg Country of the Countr				1	-
197	Bone				2	4
198-199	COMMISSION TO THE STATE OF THE				1	-
200-202	Other Sites Neoplasms of Lymphatic and He				16	13
203, 205	Neoplasms of Lymphatic and Ha (exclusive of Hodgkin's disease,	leukaci	mia eta	sues	10	
	- Sim 5 disease,	reakaei	ilia, etc.)	••	12	8
		1000	Total		443	359

Deaths from certain communicable diseases from 1890

TABLE 9

Influenza	243 243 253 253 253 253 253 253 253 253 253 25	49.2
Whooping Cough	292 109 115 259 134 259 134 137 138 139 14 16 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	7.1
Typhoid Fever	177 188 128 110 110 111 112 113 114 115 116 116 116 117 117 117 118 118 119 119 119 119 119 119 119 119	0.2
Scarlet Fever	41 107 107 107 107 100 100 100 100 100 10	0.3
Polio- myelitis	000   01400   0000	61
Measles	378 197 42 227 504 177 177 182 167 167 183 3 3 3 3 4 4 4 10 10 10 10 10 10 10 10 10 10 10 10 10	2.4
Gastro* Enteritis	247 325 241 241 242 243 249 316 316 31 43 43 43 43 43 43 43 43 43 43 43 43 43	40.6
Dysentery	-000000400-6-0-6	1.2
Diph- theria	25,54,43,34,43,44,43,44,44,44,44,44,44,44,44	1
Meningo- coccal Infections		3.3
Year	1890 1895 1900 1900 1905 1910 1915 1940 1940 1950 1951 1951 1952 1953 1954 1955 1955	Average Annual Deaths 1949-58

- Signifies information not available

<sup>\*</sup> From 1950 onwards, deaths of those under 2 years of age only.

## Notifications of certain communicable diseases from 1900

### TABLE 10

1000										9 ] .																3
Whooping	-	1	1	1	1	1	100	33/	701	603	999	1,566	1,078	834	2.131	945	773	1 460	790	119	1 139	721			1,083	
Ty- phoid Fever	1,777	631	93	64.0	210	143	32	111/	17	14	9	3	2	24	7	00	5	23	00	4	6	10			6	
Scarlet Fever	658	650	1 004	1,000	1,000	1,69,1	1,132	1,000	1,266	768	931	2,931	1,668	349	399	612	496	791	540	492	384	506	100000000000000000000000000000000000000		998	
Puer- peral Pyrexia•	44	61	9	100	o#	000	0.50	10	n -	,		-	4	+	99	55	42	46	37	50	29	18		-	32	
Polio- Myelitis	1		-		10	0	66	10	700	07	00.	13	109	36	65	47	14	3+	6	141	11	11			45	
Measles	1	1					6 203	5,069	1,002	9,610	2,010	2,020	4,209	3,354	2,702	3,146	1,613	4,328	1,797	4,109	280	4,731			2,756	
Infective Hypatitis	1		Ì		11						00	700	97	50	74	69	59	65	166	112	83	179			77	
Gastro Enteritis	11		1	1	1		1	1			775	977	200	000	489	614	513	689	412	410	430	450			527	
Food Poison- ing	11	1	1	-	1	1	-	1	1	1	3.4	25	40	0,	910	97	23	53	31	18	24	27			30	
Dysentery	11	1	1	I	-	1	1	1	1	18	33	35	170	000	110	7117	217	401	198	569	310	278			181	
Diph- theria	407	238	179	300	423	118	1,201	1,165	213	107	107	45	10		0 -	,	10	0	0	0	0	0			17	
Cerebro- Spinal Fever	11	1	65	8	5	24	19	166	39	25	25	22	34	44	00	30	700	070	07	**	6:	14		-	56	
Year	1900	1910	1915	1920	1925	1930	1935	1940	1945	1948	1949	1950	1951	1952	1953	1954	1055	1933	1050	1050	1930	6661	Average	Annual	Notif- ications	1949-58

- Signifies information not available

· Figures up to 1951 for Puerperal Fever only

† Diagnosis of two of these cases was subsequently amended to Diphtheria and Acute Encephalitis

Food Poisoning notifiable only since 1949. NOTES:-

Measles—notifiable only as the first case occurring in a household within a period of 2 months. - 64 69

Whooping Cough—notifiable only as the first case occurring in a household within a period of 3 months.

Notification of certain communicable diseases in 1959, by age periods and sexes.

TABLE 11

278 909 Total 170 20 unknown 1 37 M 45 Years and upwards 压 M 25 Years and under 45 Years M 15 Years and under 25 Years M F 10 and under 15 Years M F 15 13 10 Years 16 18 9 01 5 Years and under 10 Years M F 113 30 36 115 36 27 5 Years M F 22 104 20 and 2 Years 113 9 31 2 Years M F 10 15 1 Year and under 15 00 Under I Year 1 Cerebro-Spinal Meningitis Infective Hepatitis DISEASE Poliomyelitis ... Typhoid Fever Scarlet Fever Dysentery

### Diphtheria Immunisation

During the year 5,174 children completed a course of immunisation against Diphtheria; of these 2,508 were immunised by the Health Committee's Medical Officers at Clinics, schools, etc., and 2,666 by general practitioners. In addition, 401 children received reinforcing injections, 274 by Health Committee's Medical Officers and 127 by general practitioners.

TABLE 12

### Age Grouping of Immunised Children

	Age at end of Year		1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	At end of 1959
0-			54	116	147	158	147	330	357	269	610	911	
1-	.,		1,642	1,982	2,167	1,809	1,719	1,885	1,978	1,677	1,945	2,240	Age Groups
2—			892	1,210	937	885	920	857	791	724	746	751	1—4 years 14,092
3—			381	393	413	329	301	315	356	276	275	362	=47%
4—			248	224	196	240	198	246	258	201	150	218	
5		15	612	520	690	526	522	642	668	622	179	237	Age Group
6			762	669	912	782	834	999	922	749	57	155	5—9 years
7—			500	441	464	398	528	509	497	373	43	106	21,993 =58%
8	.,		237	193	210	177	262	227	190	112	29	71	
9—			80	81	76	45	73	68	42	17	6	36	
10+	.,	**	76	102	128	92	101	63	43	45	3	87	
TOTA	L		5,484	5,931	6,340	5,441	5,605	6,141	6,102	5,065	4,043	5,714	North Street
								Marine St.					

### WHOOPING COUGH IMMUNISATION

(Children Immunised with Triple Antigen; Diphtheria/Pertussis or Pertussis alone.)

### TABLE 13

Age at end of Year	1953	1954	1955	1956	1957	1958	1959	Total of age Group At end of Year
0—	99	131	310	338	258	586	904	904 (12%)
1—	1,023	1,446	1,729	1,838	1,596	1,884	2179	2,765 (36%)
2—	354	687	719	676	642	707	698	2,840 (38%)
3+	131	233	372	471	353	497	639	3,280

### COMMUNICABLE DISEASES

Measles. This was the only notifiable disease to reach epidemic proportions, but the nature of the illness was usually mild: there was only one death, an infant under six months of age. In a few cases where infants were known to be exposed to infection small doses of gamma globulin were successful in producing marked attenuation of the illness.

Infective Hepatitis. The incidence of this disease was unusually high; the number of cases notified, 170, is only a proportion of the real incidence. Some outbreaks occurred in schools involving both pupils and teachers. The ages of the cases were typical of this disease, being mainly school children and young adults. Because of the absence of any known means of controlling this infection, it is likely to be the disease of the future.

**Poliomyelitis.** There were ten cases, all young children who were not immunised. With the help of press, radio and television this fact was well publicised, yet there are still thousands of children in Belfast not immunised.

**Typhoid Fever.** There were eleven cases during the year; seven of these (type C1) contracted their infection while living on an unorganised camping site at Ballyreagh, County Londonderry. During the course of the investigation into the outbreak, an appeal was broadcast for visitors to the site to report to their Medical Officer of Health. This resulted in over 100 persons presenting themselves to the Health Department; many demanded that their blood be tested; some forty blood samples were taken and reported to be negative. The co-operation of the public in investigations of this nature has greatly improved in recent years. Permission to take blood samples is more readily given except in the case of the elderly who still regard it with horror.

Two cases (type C and E1) contracted their infection from carriers living in the same house. One other case (type E1) was probably a carrier for many years. One case (type A) yielded no obvious source although it was indirectly connected with the Ballyreagh outbreak.

**Food Poisoning.** Again there were no outbreaks. The complete absence of large outbreaks over the past ten years reflects credit on the standards attained by the catering trades co-operating with the food inspectors; these standards of hygiene have not been reached without some resistance.

There were three family outbreaks involving 2, 2 and 3 persons respectively; one outbreak was due to salmonella enteritidis. The remaining cases were sporadic and due to a variety of salmonellae; typhimurium (5), enteritidis (2), give (2), newport, heidelberg, bredery, melgrivis (1 each). The decreasing proportion of the endemic type, typhimurium, and the constant appearance of new types suggests that imported food-stuffs are the main source of food poisoning infections.

Diphtheria was non existent in spite of an outbreak outside the city boundary.

Whooping Cough. The 1958 epidemic carried over into the early months of 1959; there were seven deaths in 1959; five of these were infants under six months of age. A comparison with previous epidemics:—

Epidemic years	Notifications	Deaths
1952—53	3,076	18
1955—56	2,250	16
1958—59	1,853	12

It has always been difficult to get parents to bring their infants as early as three months of age for immunisation, yet this is essential if these deaths are to be prevented.

**Dysentery.** Mainly of the sonne type, remained endemic among young children and naturally the mothers were frequently found to be infected. It was usually a mild illness and recovery was rapid if the child could be nursed at home. Institutional outbreaks occurred and were difficult to control.

### TUBERCULOSIS

From 1st April, 1959, notifications of tuberculosis cases reverted from the Tuberculosis Authority to the local Health Authority and it is thus possible to give a more detailed analysis of the trends of tuberculosis in Belfast.

The annual number of notifications showed a marked decrease after a period of four years when they remained practically stationary.

### Annual Notifications of Tuberculosis Cases

Year	1955	1956	1957	1958	1959
Cases	493	470	460	462	379

The outstanding feature was the change in the age grouping of new cases. Formerly the peak incidence was in the 15-25 year age group; in 1959 the peak was in the 55-65 age group. There was, happily, a marked decrease in the numbers of children infected; this is further confirmed by the increasing percentage of Mantoux negative children at routine medical inspection about the age of 10 years. Very few cases of tuberculosis meningitis occurred and these few were over 15 years of age. Now that the use of B.C.G. at 10 years of age is firmly established the incidence of the disease in young adults may be expected to decline further.

A study of the increasing incidence in the over 45 years group shows that is is largely due to the greater number of men affected. The factors concerned here are numerous and the degree to which they are responsible cannot be accurately assessed. These factors appear to include smoking, air pollution, chronic bronchitis, neglect of nutrition and health generally and some occupational hazards. Indeed it is possible that the male lung is more liable to breakdown under unfavourable circumstances than the female lung as also appears to be the case in chronic bronchitis and cancer.

Estimating the incidence in each ward of the City showed that there was a decrease in all wards except two near the city centre where there was a slight increase. This is probably due to the greater proportion of old people in these wards. Otherwise the incidence is roughly related to overcrowding

and the resulting poorer living standards.

### IMMUNISATION

### Poliomyelitis Vaccination

Once again public demand, stimulated by press, radio and television caused a large proportion of time to be devoted to vaccination against poliomyelitis. As requested in a Ministry of Health and Local Government circular, "on the spot" immunisation sessions were arranged for the benefit of the 15–25 age group. These consisted of lunch hour sessions at clinics and visits to industrial establishments. It was found that a team of two doctors and two nurses could inoculate at the rate of 400 persons per hour. Good progress was being made when, during the first week of the campaign, a request was made that the effort be "soft pedalled" due to limited supplies of vaccine. Nevertheless a similar campaign proceeded in other local authority areas.

Subsequently, unfavourable comparisons were made between the percentages inoculated in Belfast and in other areas without regard to these circumstances. In addition, it should be noted that in Belfast inoculated persons are classified according to the year of birth; in other areas it appears that the age at time of inoculation is used; this latter method must in the course of time give percentages of over 100 if it is not recognised that children move from one age group to the next. In Belfast, general practitioners have been encouraged to take and have taken a large share in the immunisation schemes: there is a lapse of time before their records are received so that the published figures of inoculations are always an understatement of the true situation.

In each of the three years since poliomyelitis vaccination started, the supply of vaccine in Belfast was inadequate at times; the supply of single dose ampoules, favoured by general practitioners, was frequently inadequate. It is to be hoped that the cumbersome and lengthy chain of administration through which the vaccine is issued will be shortened.

Grateful thanks are due to the doctors, nurses and clerical staff who willingly give up their meal breaks during the limited campaign; they would equally willingly have done more.

### Diphtheria, Whooping Cough and Tetanus Immunisation

All infants from three months of age are offered immunisation with triple vaccine. In spite of the general preoccupation with poliomyelitis vaccination, it was possible to increase the number of infants immunised against these diseases. General practitioners are taking an increasing part in this scheme but some still do not favour whooping cough immunisation.

The recording of these inoculations is of the utmost importance and a complete record card of immunisation is issued to each child coming to the clinics.

### **Smallpox Vaccination**

This is still a statutory requirement for infants born in Northern Ireland and a satisfactory percentage (76%) of infants are successfully vaccinated. The multiple pressure method is used at clinics and is found to be outstandingly simple and satisfactory, particularly in the production of a small lesion and scar. The result of the scarification method, still used by some general practitioners, is still distressingly evident at school inspections: the large fibrous scars must bring the procedure into disrepute.

The requirements of other countries for visitors result in many persons receiving smallpox vaccination before leaving this country. The number of International Certificates authenticated by the Health Department in 1959 was 4,498. This approaches the figure of infant vaccinations (5,103).

### B.C.G. Vaccination

This is now the responsibility of the Health Authority as the Northern Ireland Tuberculosis Authority ceased to function on the 31st March, 1959. The effort to vaccinate all new born infants is regarded as misplaced (the incidence of tuberculosis is very low in the early years of life now). All school children aged 10+ years are offered testing and vaccination (see table in School Health Section). In addition, a few industrial concerns co-operate in allowing B.C.G. to be offered to their new employees.

W. J. McLEOD, M.D., D.P.H., D.P.A., Ph.C., Senior Medical Officer, Environmental Health Division.

### POLIOMYELITIS VACCINATION

Table showing the age grouping of persons inoculated from May, 1957 to December, 1959.

TABLE 14

		One	One Injection Only	y		Two In	Two Injections Only	y		Three Injections	ctions
Age at End of Year	1957*	1958	1959	Total in Age Group at end of 1959	1957	1958	1959	Total in Age Group at end of 1959	1958	1959	Total in Age Group at end of 1959
Under 1 year	112	44	101		122	232	413		17	39	
1 year	321	412	83		458	1,128	2,409		542	792	
2	194	66	101	1,682	368	866	1,064	868'6	897	2,052	8,935
3	131	142	39		233	958	662		667	1,920	
4	152	100	34		116	1,061	989		662	2,009	
9	140	202	39		106	1,655	613		627	2,016	
9	92	182	123		19	1,863	593		555	2,000	
2	84	225	104		58	1,864	640		497	1,862	
: 8	78	214	135		50	2,031	636		510	1,736	
6	88	127	113		55	2,097	542		415	1,705	
10	52	141	112	3,898	42	1,997	749	27,805	405	1,617	20,930
11	4	164	140		4	1,560	878		301	1,595	
12	4	208	251		2	1,042	1,728		240	1,592	
81	4	103	266		4	794	2,201		176	1,419	
14	2	230	124		1	1,546	2,434		96	1,000	
_											
15—25	1	244	4,202	4,682	1	729	18,587	20,866	17	4,073	4,186
26-40	1	21	149	170	1	354	4,133	4,487	1	841	841
						-					

### REPORT OF THE CHIEF SANITARY OFFICER FOR THE YEAR 1959

Inspections and the procedural work for the clearance of areas of unfit houses, the demolition of individually unfit houses and for essential repairs to secure wind and weatherproof conditions in large numbers of unfit and sub-standard houses continued as a major part of the responsibilities of the Sanitary inspectorate.

While the description of nuisances which require to be dealt with may vary to some extent, there is little difference in the general procedure for the abatement of these. As a result of the Department's efforts, what may be regarded as the grosser types of nuisance have been eliminated and nuisances of a very offensive character are now rarely met. While that is so, the health conscience of the people has become so quickened that offences of a minor character are now much more frequently complained of. This attitude is welcomed (although many trivial matters are often reported when disputes arise between neighbours).

Smoke abatement is now rightly occupying a prominent place in our hygiene campaign. Too much tolerance has been allowed to the discharge of smoke into the atmosphere, but there is now a gratifying awakening of the public conscience in this respect. Engineering and applied science are greatly aiding our efforts, and former crude methods of stoking furnaces are rapidly being replaced by automatic fuelling.

On the domestic side the increased use of gas, electricity and smokeless fuel is playing a large part in air purification. The high cost of smokeless fuel is however, a great deterrent to its more general use. Whilst much can be done by education and persuasion, legal backing is also necessary, and in this respect legislation is needed in Northern Ireland with provisions similar to the Clean Air Act, 1956, applying to England and Wales.

Warfarin baiting now carried out in the Belfast Harbour Estate and Shipyards has reduced the rat population to such an extent that the requirements for fumigation of ships have been much reduced. The replacement of large sections of wooden jetties and sheds by newly constructed steel framed ferro-concrete structures has eliminated a considerable amount of rat harbourage and discouraged rat movement in under-jetty spaces. Extensive alterations recommended by the Port Sanitary Officers were carried out to dock side sheds leased by shipping companies, so that fish arriving at the port are now handled and stored under proper hygienic conditions. With the co-operation of the Customs Authority sampling of imported foodstuffs continued throughout the year.

During the past few years itinerants have presented the Belfast Health Authority with an ever increasing problem. In some areas of the City they have endeavoured to establish encampments and only move when compelled by the Sanitary Officer. They then merely go the rounds of all the vacant sites, depending upon the number of times they are moved. The task of removing these people is not one of the more pleasant of a Sanitary Officer's duties. He is inundated with all sorts of reasons and excuses as to why a van cannot be moved. The answer to this problem would be for the Northern Ireland Government to introduce legislation which would be effective to deal with the situation. During the year 169 Statutory Notices were served on itinerants for the abatement of public health nuisances in and adjoining shacks erected on lands in various parts of the City. 70 Summonses were subsequently served for non-compliance with notices. It was necessary to issue 6 disobedience summonses for non-compliance with Magistrate's Orders to abate public health nuisances. The fines imposed by the Courts amounted to £27 5s. 0d.

The arrangement whereby certain plans of new work submitted to the City Surveyor are forwarded to the Health Department for comment continued during the year: 402 such plans were examined and commented upon.

A severe storm in November caused widespread damage to property throughout the City. The roof of a four storey block of flats in course of erection on the Springfield Road was ripped off. Slates were torn from the roof of another block of flats in the same area and two chimney stacks were blown down. Hundreds of houses in the City suffered damage. At the height of the storm a section of the covered stand at Windsor Park Football Ground was torn from its stanchions and thrown more than 200 feet in the air, crashing on the rooftops of both sides of Olympia Drive. This left huge gaping holes in the roofs and shattered chimney stacks.

The number of defects discovered by Sanitary Officers and referred to other Departments during the year and not recorded elsewhere in the body of this Report was:—

Estates Sup	erinter	ndent for	defects d	iscovered in	Cor	poration dy	velling	1
houses								477
City Survey	or for	various r	uisances a	and defects				1,835
Belfast City	and	District	Water Co	mmissioners	for	defects in	water	
fittings								935

### Sewerage and Sewage Disposal

The system of sewerage and sewage disposal is under the control of the City Engineer and Surveyor. Work on the present stage of augmenting Belfast's drainage system is almost completed. The purpose of the project is to cope with development in the north-west area of the City. A high level sewer has been laid from the out-fall works at Northern Road (off Duncrue Street) up to Limestone Road and it will eventually be extended to connect with other branch sewers. From it a branch sewer has been almost completed on the Limestone Road and will continue through the old Waterworks to Clifton-ville Circus to take additional drainage from the Ballysillan Road area. The project has involved the opening of a number of roads including the Limestone Road, but there has been no serious interruption of traffic. A considerable part of the sewer from the out-fall works to Limestone Road has been laid in tunnel form. The work started nearly four years ago and the present stage is expected to be finished early in 1960. A tender has been accepted for the reconstruction of the Park Road sewer. Tenders have been invited for the reconstruction of sewers in Ormeau Road, Broadway, Iveagh Street and Quarry Road. Cleansing and repair of sewers generally was carried out during the year.

### Refuse Collection and Disposal

This work is carried out by the City Surveyor's Department by direct labour under control of the Superintendent of Cleansing and has been well maintained during the year under review. House refuse collection has been expanded to include the various blocks of flats and new housing estates in the City. The average number of dustbins emptied per week is now over 159,000. This material is mainly disposed by controlled tipping on a number of tipping grounds. During the year, tipping was completed at the disused clay pits on the Springfield Road and a large area of what was formerly useless ground has now been filled and levelled. A new scheme for the reclamation of the foreshore on the Antrim side of Belfast Lough was inaugurated. It consists of tipping house refuse into tidal water, the material being retained inside a specified area by means of a floating boom. This is a novel experiment and probably the first of its kind to be attempted in Northern Ireland. Further progress has been made in connection with the siting of new Cleansing Depots. In November site works commenced at Ferndale Place for the erection of a new Depot to replace the existing one situated under Tate's Avenue Bridge. When completed this should expedite cleansing work in the adjoining areas.

A second small bulldozer was purchased for use on tipping grounds. These machines have proved very useful for this work by giving better consolidation of the tipped material. During the year Sanitary Officers made 362 inspections of private and Corporation tipping grounds within the City. In addition 14 rat destruction campaigns were carried out by the Pests Control Section in order to exterminate rats at the different tipping grounds. Special attention was also paid to the fly problem by the use of effective insecticides.

### Water Supplies

The control of the public water supply is vested by Acts of Parliament in the Belfast City and District Water Commissioners. General maintenance work has been continued throughout the year. Pipes have been relaid wherever necessary and close liaison is kept with the Corporation in order that such work is carried on in advance of street reconstruction schemes. Routine bacteriological examinations of all water under the control of the Water Commissioners was continued throughout the year by the Counties Public Health Laboratories, London, and copies of the results of these examinations were sent to the Medical Officer of Health for information. During the year 995 samples of water were taken from or adjacent to the different service reservoirs for examination. These consisted of 10 samples of water before treatment, 491 samples of filtered and chlorinated water and 494 samples of chlorinated water. The results showed 6 containing both bact-coli (Type 1) and coliform organisms and 9 containing coliform organisms. 10 samples showed a low pH value of the water. 10 samples of untreated water showed coliform organisms and bact-coli (Type 1). The results of the bacterio-logical examination of the raw waters were typical of waters showing the normal deterioration in quality which occurs after heavy rain. In all cases the examination showed that the raw water was

The following is a summary of reports on the bacteriological examination of water samples taken from consumers' taps direct from distributing service mains throughout the City by officials of the Water Commissioners.

Samples examined during the year				1
Samples reported as highly satisfactory				671
Samples reported as showing attribute.				645
Samples reported as showing coliform orga Samples reported as showing bact-coli (Typ	nisms			24
camples reported as snowing bact-coli (Ty)	pe 1) and coli	form orga	nieme	0

The bacteriological examination of the treated waters showed that these waters were of good

### Testing of Samples of water collected by the Health Department Staff from Consumers' taps

Weekly samples have been submitted to the Central Laboratory, Northern Ireland Hospitals Authority for bacteriological examination. The dwelling houses from which the samples are taken are selected to cover the different sources of supply to the several areas of the City. The Belfast City and District Water Commissioners are furnished with copies of the reports of the Bacteriologist. During the year under review the total number of examinations of samples thus taken was 314. Of this number, 279 samples were reported by the Bacteriologist as highly satisfactory and the remaining 34 samples as unsatisfactory.

The results of examination of the unsatisfactory samples are classified as follows:-

TABLE B 1

Coliform Organisms (Count per 100 ml.)	Number of Samples	Coliform Organisms of Faecal Origin (Count per 100 ml.)	Number of Samples
1—3	28	The state of the same	10
4—10	6	BONG TO WOOD OF THE PARTY OF TH	2
Greater than 10	1	Greater than 10	-

12 samples contained both faecal and non-faecal coli.

In addition to the above, 12 samples taken from tenement dwellings were reported by the Bacteriologist as highly satisfactory.

### Domestic Water Supplies from Private Wells, etc.

The Department continued to sample water from private supplies in the areas on the outskirts of the City where there was no public mains supply. During the year 180 samples of water were taken from private wells by Sanitary Officers and examined at the Central Laboratory. The results showed that 38 of these samples were highly satisfactory, 11 satisfactory, 1 suspicious and 130 unsatisfactory because of the presence of coliform organisms of faecal and non-faecal origin. Three existing dwelling houses were connected to the public mains supply during the year.

The results of examination of the unsatisfactory samples are classified as follows:—

TABLE B 2

Coliform Organisms (Count per 100 ml.)	Number of Samples	Coliform Organisms of Faecal Origin (Count per 100 ml.)	Number of Samples
1—3	19	1—3	23
4—10	10	4—10	13
Greater than 10	102	Greater than 10	91

127 samples contained both faecal and non-faecal coli.

### Water Supplies from Artesian Wells

During the year 83 samples of water were obtained for bacteriological examination at the Central Laboratory from privately owned artesian wells. The water from these wells is used in the manufacture of food for sale for human consumption. The Bacteriologist reported 75 of the samples as highly satisfactory and the remaining 8 samples as unsatisfactory because of the presence of coliform organisms in the water. When unsatisfactory results were obtained investigations were made by the Food Inspection Staff with a view to tracing and eliminating the source of pollution.

The results of examination of the unsatisfactory samples are classified as follows:-

TABLE B3

Coliform Organisms (Count per 100 ml.)	Number of Samples	Coliform Organisms of Faecal Origin (Count per 100 ml.)	Number of Samples
1—3	5	1—3	1
4—10	1	4—10	1
Greater than 10	2	Greater than 10	_

<sup>2</sup> samples contained both faecal and non-faecal coli.

### Samples of Water from Mineral Water Manufacturers' Premises

During the year 109 samples of water were taken by the Food Inspection Staff for bacteriological examination at the Central Laboratory. The results of the examination showed that 86 of these samples were highly satisfactory and 23 samples unsatisfactory due to the presence of coliform organisms in the water, some of faecal origin. In every instance when unsatisfactory results were received investigations were carried out in the premises concerned and suggestions were made to the management concerning precautions necessary to ensure a pure water supply.

The results of examination of the unsatisfactory samples are classified as follows:—

TABLE B 4

Coliform Organisms (Count per 100 ml)	Number of Samples	Coliform Organisms of Faecal Origin (Count per 100 ml)	Number of Samples
1—3	20	1—3	7
4—10	1	4—10	
Greater than 10	2	Greater than 10	

<sup>7</sup> samples contained both faecal and non-faecal Coli.

### Public Swimming Baths

Tenders have been received for the main building and engineering contracts in connection with the erection of the Grove Baths and work is expected to commence on the site early in 1960. Preliminary plans have been prepared for the renovation of the portion of Ormeau Baths not included in the previous scheme.

Work is in progress on a £75,000 alterations and renovation project at Falls Road Indoor Baths. The pond banks are being completely cleared and accommodation for spectators, pre-cleansing facilities and remote changing accommodation will be provided. Already a new £30,000 boiler and filtration plant has been installed in these baths.

Plans and specifications are in course of preparation by the City Surveyor for the supply and installation of hot water storage calorifiers at Ormeau and Peter's Hill Baths. Painting work was carried out at sections of Ormeau and Falls Road Baths and at the end of the year tenders had been invited for painting work at Peter's Hill and Templemore Avenue Baths. During the year 160 samples of baths water were taken by the Senior Food Inspector for bacteriological examination at the Central Laboratory. 158 of these samples were returned by the Bacteriologist as highly satisfactory and 2 samples were unsatisfactory because of the presence of coliform organisms in the water. 581 samples of baths water were examined at the four indoor baths by Sanitary Officers to ascertain the pH value of the water which should be approximately 7.8 and should not fall below 7.0, also the amount of free residual chlorine present. Of this number 25 were found to be unsatisfactory and action was taken by the staff to improve conditions. Where structural defects were found at the time of inspection intimation was given to the Baths Superintendent for attention.

### Corporation Open Air Swimming Pools

A new water filtration and chlorination plant has been provided at Falls Park Open Air Swimming Pool. All the alterations should be completed early in 1960 and the pool made ready for swimming during the summer season.

32 samples of water were taken during the season from Victoria Park Open Air Swimming Pool. 31 samples were reported by the Bacteriologist as highly satisfactory and 1 sample was unsatisfactory because of the presence of coliform organisms including faecal coli. 15 samples of water from this pond were examined by Sanitary Officers to ascertain the pH value also the amount of free residual chlorine present. 2 of the samples showed unsatisfactory results on test.

### Privately owned Open Air Swimming Pools

46 samples of water were taken during the season from privately owned open-air swimming pools for bacteriological examination at the Central Laboratory. Of this number 40 were reported as highly satisfactory and 6 samples as unsatisfactory because of the presence of coliform organisms, some of faecal origin.

The results of examination of the unsatisfactory samples are classified as follows:-

TABLE B 5

Coliform Organisms (Count per 100 ml.)			Number of Samples
1—3	5	1—3	4
4—10	1	4—10	1
Greater than 10	The state of the s	Greater than 10	San Par

5 samples contained both faecal and non-faecal Coli.

73 samples of water were examined by Sanitary Officers at the pools in order to ascertain the pH value of the water, also the amount of free residual chlorine present. 29 samples of the water showed satisfactory results and 44 samples were unsatisfactory. Action was taken by Sanitary Officers to improve either the pH value or chlorinate content of the water in the pools.

Inspections carried out by Sanitary Officers to open air swimming pools 178

### Housing Acts (Northern Ireland) 1890 to 1956

Multi-storey flats and maisonettes are essential in order that the maximum number of residents may be housed in re-development areas. This was the main point in a report submitted at a meeting of Belfast Corporation Housing Committee by a deputation which in March went on a fact finding visit to slum clearance schemes in Sheffield, Newcastle-upon-Tyne and Gateshead. The report stressed that it was necessary to have an overall plan for re-development in the City to fix priorities for the various areas and to aim for completion within a specified period of years. The visits showed the problem of slum clearance to be "a vast and difficult one". Referring to the ingenious use which has been made in Sheffield of sloping sites the report says that what the deputation saw would warrant a fresh approach to the problem in Belfast. It was clear from the visits that if the slum clearance problem was to be met in Belfast it would require a very great effort on the part of all concerned. Increases would require to be made in the staff of the various Departments involved and this matter was receiving attention. The most important part of the problem was a need to ensure that houses or flats would be made available immediately the necessary formalities regarding re-development orders had taken place.

If the procedure adopted in the cities visited was to take place in Belfast the problem would be dealt with very slowly—a small number of tenants were transferred initially followed by re-building and further transfers and demolition at successive stages. In Sheffield particularly, development on the periphery had been on a very large scale involving the transfer of many people some distance from their former sites, but there was no reason why some at least of these transfers should not be dealt with on a temporary basis on the understanding that when the developed area had been completed the tenants would be permitted to return if they wished to do so. They should certainly be

given first priority. It was obvious to the deputation that the problem must be treated as a human one. As far as possible the natural desire of the people concerned to live as near the area in which they had been brought up and lived in most of their lives should be met. Whatever happened, it must mean a very substantial change in their way of living, and it was essential that the reasons for this should be explained to them. The report added that such explanations and an assurance that they will be dealt with as fairly and reasonably as circumstances permit will ensure, as it did in Sheffield and Newcastle, that the position will gradually be accepted by them.

During the year the Housing (Clearance and Re-Development) Committee authorised its officers to acquire by negotiation or vesting order nineteen sites in and around the City on which two thousand five hundred houses can be built. The biggest area comprises eighty three acres at Knocknagoney, outside the City boundary near the Holywood Road, which can be considered for development now that the way is clear for the construction of sewage disposal works at Kinnegar. The Corporation is already building about two hundred and sixty flats and houses on another site at Knocknagoney. The other sites which are now to be acquired were earlier rejected for housing purposes because of their sloping nature, but after seeing what had been achieved in Sheffield in the development of such sites, the Housing Committee had decided with new techniques they can be satisfactorily used. The Housing Architect was authorised to include both tall blocks of flats and blocks up to four storeys high in the scheme being prepared for the re-development of the Upper Library Street area. Previously the Committee had asked for alternative schemes with tall blocks in one and blocks up to four storeys in the other. The Committee decided on the change because of the experience gained through recent visits of members to cross-channel cities which are already tackling slum clearance. It was agreed to ask the Minister of Health and Local Government for an extension of time to prepare the plans for the Upper Library Street Area (they were due to be submitted to the Minister for consideration and approval in May). The Housing Architect submitted sketch plans showing the proposed conversion of four large houses acquired by the Housing Committee in Cliftonpark Avenue into twelve flats and maisonettes. With the necessary structural alterations the block of four houses would provide:

Ground Floor:—2 two-bedroom and two single bedroom flats. Access from entrance halls to yard space at rear.

First Floor:- 4 two bedroom flats.

Second and Third Floors: 4 three-bedroom maisonettes.

The accommodation to be provided in each flat or maisonette would include, in addition to bedrooms, a living room, kitchen and larder, bathroom and watercloset, hot press and fuel store. The Committee approved of the plans and they were forwarded to the Ministry of Health and Local Government for their consideration. In February the Belfast City Council amended a Standing Order to transfer from the Health Committee to the Housing (Clearance and Re-Development) Committee responsibility for making demolition and Closing Orders in respect of unfit houses. The change was made because it was considered that the Housing Committee, which is obliged to re-house displaced persons, should decide which houses should be condemned.

The total number of permanent dwelling houses completed and occupied within the City during the twelve months was 782. In addition, 143 self contained flats and 33 old persons' houses were provided, 245 dwelling houses, 84 flats and 33 old persons' houses were provided by the local authority and 537 dwelling houses and 59 flats were provided by private enterprise. Table B 6 shows the sites with the number of dwelling houses and flats erected by the local authority and Table B7 shows the number of dwelling houses and flats erected by private enterprise in the four divisions of the City.

TABLE B 6

S	Site		Dwelling Houses	Flats	Old Persons' Dwellings	
Annadale No. 2 Clara Park Dehra Grove Knocknagoney Sandbrook Park Springfield Parade Roseleigh Street		::		68 — 115 19 24 19	72 	12 20 1 —
TOTALS				245	84	33

### TABLE B 7

		Divisio	n		Dwelling Houses	Flats
North				 	53	19
South				 	52	25
East West				 	286	15
West				 	146	
Tot	als			 	537	59

Table B8 shows the sites and capacity where contracts have been placed by the Corporation for the building of dwelling houses.

TABLE B 8

	Contracts		Nu	mber Co	mpleted	Number to be Completed			
Site	Capacity	Placed	Houses	Flats	Old Persons Dwellings	Houses	Flats	Old Persons Dwellings	
Clara Park	496	496	334	116	20		45	26	
Knocknagoney Springfield Parade Sylvan Street/	316 28	316 28	193 24	8 4	=	70	45		
Roseleigh Street	37	37	19	-	-	-	18	(Note to and	
Springfield Road	30	30		10000	1-11-11-11	4	26	100000	
Sandbrook Park	33	33	33	70	10		87	1 5 5	
Annadale No. 2	242	239	68	72	12	7	8/	MO TO	
Kyle Street/Lisavon	0.5	05			to a Band Ban	35		-	
Street	35	35	100	-	1	72.72			
Dehra Grove	005	000	-	-		588	57	20	
Turf Lodge	665	262	700		778	36	-	20	
Gainsborough Drive Carlisle Street/ Lonsdale Street/	36	36	_			30			
Eglinton Street	35	35	_	_		_	35	_	
Kimona Street	23	23		-	-	23	_	_	
TOTALS	1,977	1,571	671	200	33	756	268	46	

At 31st December, 1959, the total number of dwelling houses provided and owned by the Belfast Corporation since the commencement of Local Authority Housing Schemes was 11,114 comprising:

Permanent houses built and purchased price	or to 1	1939			 	 	3,021
Permanent houses built under Belfast Imp	rovem	nent Or	der, 19	10	 	 	250
Permanent houses built from 1946 to 1959							
Permanent Flats built from 1946 to 1959					 	 	1,282
Temporary (Prefabricated) bungalows					 	 	993
F. D. fabricated Bungalows were demolished	d at 1	Rotanie	Site				

5 Prefabricated Bungalows were demolished at Botanic Site.

The number of homeless applicants registered with the Belfast Corporation for housing at the 31st December, 1959, was 6,481.

During the year 10,324 inspections were made in order to ascertain the number of unfit dwellings. Table B9 shows the number of inspections in each of the four divisions of the City:—

TABLE B 9

North Division	South Division	East Division	West Division
4,085	3,088	1,277	1,874

The Medical Officer of Health reported to the Housing (Clearance and Re-Development) Committee 13 individual dwelling houses as unfit for human habitation and not capable at a reasonable expense of being rendered so fit. The Housing Committee made Demolition Orders or accepted undertakings in accordance with the Housing Acts (Northern Ireland) 1890—1956 in the case of 3 houses and deferred consideration of the remainder as they were situated within potential clearance areas. 7 Corporation owned dwelling houses were demolished because the site was required for the building of an extension to the College of Technology. One large derelict dwelling house was demolished in order to re-plan the site for the erection of Corporation dwelling houses. During the year 18 dwelling houses were demolished because they were considered to be dangerous.

On the 30th October, 1958, the Minister of Health and Local Government made a statement in the Northern Ireland House of Commons on the subject of compensation in certain cases of hardship in connection with slum clearance and similar operations, and warning intended purchasers of property which might fall within areas scheduled or to be scheduled by local Authorities for slum clearance or re-development, that in their own interests they should take professional advice and enquire from local council offices whether the property in question was likely to be proposed for slum clearance action, etc. It was the intention of the Government to exclude, from the scope of the examination which they intended to conduct into the problem, houses bought for owner occupation where the contract for purchase was entered into after the date of this statement. During the year the Health Department dealt with 2,711 enquiries from prospective house purchasers concerning property which might be within a potential clearance area.

### HOUSES LET IN LODGINGS

It would be difficult in Belfast to assess the actual number of persons who reside in these houses-let-in-lodgings, since they are constantly changing. Again, although we have in force By-laws in respect of these houses made under Section 100 of the Public Health (Ireland) Act, 1878 and Section 20 of the Housing (Ireland) Act, 1919, requiring registration of houses used for this purpose, there are still many which are so used that remain outside the knowledge of the Health Department. These are coming to light as a result of the Housing Survey and visits by Sanitary Officers under the Corporation's discretionary points system for allocation of housing accommodation on medical grounds.

The By-laws are also concerned with natural and artificial lighting, ventilation, water supply, overcrowding, cleanliness, drainage and sanitary arrangements and facilities for the storage, preparation and cooking of food.

Inspections during the	year					2,156
Sanitary defects discove	ered					134
Sanitary notices served	on owners an	d occupier	s			49
Sanitary defects remedi-				10.00		15
Summonses issued for n						200
Summonses issued for c	ontinuing offe	nces	122			43
Number of houses regist	tered as at 31s	st Decemb	er 1959		**	158
Number of families in o	ccupation		01, 1000		40.00	648
Number of rooms .					- 10	1,006
Number of adults .			- 11	of the same	PANT L	
Number of Children				A COLUMN		1,238
Amount of fines impose	ed by the Cou		n-compl	ianco mit	b D	508
laws			n-compi	iance wit		9s. 6d.

During the year the Estates Committee of Belfast Corporation agreed to co-operate with the Welfare Committee in a scheme to permanently re-house a number of homeless and "problem" families accommodated in the Welfare Hostel, Lisburn Road. The Welfare Committee had decided that the Welfare Hostel should be vacated as soon as possible as it was entirely unsuitable for the provision of temporary accommodation. The Welfare Committee suggested that the housing of the families concerned should be by way of an annual quota or otherwise. In regard to this proposal the Estates Superintendent informed the Estates Committee that it was important that re-housing should take place, otherwise the temporary accommodation might easily become full and the intention behind the scheme would be frustrated. He anticipated that a number of families provided with temporary accommodation would, apart from unsatisfactory reports as to suitability, be eligible for permanent re-housing under the Corporation's existing "points" system. The Estates Superintendent was not in favour of families who have had to be accommodated due to emergency measures, apart from suitability,

being re-housed, unless under the ordinary "points" system. To decide otherwise would result in the waiting list being jumped. In his view a flexible arrangement which would take into account the supply of houses for letting was to be preferred to a system of a fixed quota of houses per year. In regard to "problem" families, the Estates Superintendent said a specially trained Welfare Officer concerned with tenants who gave trouble because of irregular rent payments, badly-kept houses and generally with homeless families who are unsuitable for permanent housing accommodation through unsuitability, could perform useful work. He recommended that the Estates Committee should co-operate fully with the Welfare Committee in the proposed scheme.

### Rent and Mortgage Interest (Restrictions) Acts (Northern Ireland) 1920 to 1956

The Acts specify the function of the Sanitary Authority in regard to the issue to tenants of certificates of disrepair and to landlords of reports as to the satisfactory completion of necessary repair works. Both landlord and tenant have the right of appeal to the County Court. A landlord's right relates to the reasonableness of the requirements of the Sanitary Authority with regard to work of repair. A tenant's right relates to the refusal of the Authority to grant a certificate. The following table shows the total number of applications received for certificates and reports issued and refused from 1st September, 1951 until 31st December, 1959.

(a) During 1959:—					
Certificates and reports outstanding at	31st De	ecember,	1958		14
Applications for certificates and reports	3				1,461
Certificates issued to tenants					892
Reports issued to landlords					293
Refusal of certificates to tenants as the	dwelli	ng houses	were fou	nd to	
be in good and tenantable repair					7
Refusal of reports to landlords as all th	ne work	s specified	l in certifi	cates	
had not been completed					243
Number of applications for certificates	and rep	orts canc	elled		23
Certificates and reports to be dealt with	at 31s	t Decemb	er		17
(b) Totals from 1st September, 1951 to	11 31st	December	1959-		
			, 1000.		00.000
Applications for certificates and reports					39,093
Certificates and reports issued					27,337
Reports issued to landlords					6,690
Certificates refused					497
Reports refused					4,322
Certificates and reports cancelled					230

### Discretionary Points System for Allocation of Housing Accommodation on Medical Grounds

In the points system adopted by the Council for the allocation of Corporation dwelling houses, provision is made for priority to be given in cases of urgent necessity on medical grounds. Claims for such priority were investigated by Sanitary Officers and special recommendations were made by the Medical Officer of Health.

		houses i	inspected for	r over-c	rowding	or insani	tary	000
condition	1S							102
Rooms in o	lwelling	houses in	spected					436
Families of	cupying	the dwel	lling houses					233
Adults								509
Children								321
Houses fou	nd to be	over-cro	wded					64
Houses fou	nd to be	in an in	sanitary con	dition				22
Houses who	ere no re	commen	dations were	made				16

### Planning (General Interim Development) Order Northern Ireland 1944

During the year 88 applications and enquiries were received from the City Surveyor's Town Planning Section for proposed development of various properties in the City such as the conversion of dwelling houses into shops, offices, second hand clothes dealers, hairdressing, cafes and snack bars, showrooms, preparation of fried fish and fried potatoes, football pools receiving depots, boot repairs, home bakery, preparation and sale of foodstuffs, preparation and storage of chemicals clothing manufacturer, book-makers premises and other premises proposed to be used as factories, motor repair workshop, scrap metal merchants, coach painting, storage of offensive materials, etc. The Department furnished reports to the City Surveyor on all the above applications. In 25 instances appeals were made to the Ministry of Health and Local Government (Northern Ireland) against the Corporation's planning decisions. The Town Planning Officer was responsible for the preparation of reports and giving of evidence in connection with all the appeals. One case is worthy of note. The Corporation's Improvement Committee refused an application of the occupier for permission to use land at the rear of dwelling houses as a yard for the storage and repair of machine tools and the storage and sale of steel and scrap metal. The applicant appealed to the Ministry of Health and Local Government against the Committee's decision and the Ministry dismissed the appeal. The final decision was of particular interest from a public health viewpoint as serious nuisances were created in the premises by the burning of parts of old motor bodies and waste rubber.

### Improvement and Conversion Grants for Older Houses

During the year the Minister of Health and Local Government made reference to the recently completed survey carried out by Health Authorities in accordance with the Housing (Miscellaneous Provisions) and Rent Restriction Law (Amendment) Act (Northern Ireland) 1956. The information submitted to the Ministry contained proposals for dealing with houses which were unfit for human habitation. The job of getting rid of old, unfit houses would take some time, but local authorities should do it as quickly as possible. It is unfortunate that so many of our old houses were beyond repair and must be demolished, but there are many which could provide housing accommodation for some years by doing some repairs and improvements. Bringing these repairable houses up to modern standards and giving them modern amenities was a matter of priority. The Ministry of Health and Local Government has a scheme for helping people to improve and modernise old houses which were structurally sound. This conversion and improvement scheme which is operated through the local authority could make a most valuable positive contribution towards improving housing standards and providing housing standards and living accommodation which are going to be urgently needed as the clearance programme gathers momentum. Applications for grants are dealt with by the City Surveyor and in each case he seeks the views of the Health Department as to suitability of the premises for conversion or improvement prior to the application being considered by the Housing (Clearance and Re-Development) Committee.

Number of applications for	improve	ment and	d convers	sion gran	ts for	
older houses						200
Number of applications refu						10
Number of applications appr						190
Number of improvements or	conversi	ons comp	leted or i	n progres	s	47

### Public Health nuisances discovered and complained of in dwelling Houses, etc., by District Sanitary Officers during 1959

### TABLE B 10

Nature of Nuisance		The same of			
Tractice of Transance	North	South	East	West	Total
Drains, traps, etc., foul or defective	1,089	578	594	1,194	3,455
Filing, paving or flooring defective	726	530	637	802	2,695
Sinks defective, or want of; waste pipes foul or				70000	-,000
defective	158	116	77	113	464
Water closets foul or defective; no water closet					
accommodation; soil or ventilation pipes defective,					1000
or want of		925	773	1,210	3,950
Oustbins defective, or want of	468	175	91	211	945
Roofs defective		1,721	1,461	2,522	8,072
Spouting defective or want of	1,298	1,156	924	1,421	4,799
Damp state	3,416	2,374	2,015	3,594	11,399
Plaster on walls and ceilings defective	000	599	497	712	2,406
Domestic water supply: want of, or unsuitable		9	16	19	136
Lighting or ventilation insufficient, or want of	38	116	63	91	- 308
Schools overcrowded		4	7	1	12
Owelling houses overcrowded	14	11	16	6	47
Accumulation of manure or offensive matter; offensive	e				
smells; premises or passages dirty		190	113	346	1,010
owl or animals kept so as to be a nuisance	6	3	6	13	28
Schools dirty		-	-	1	100000
Miscellaneous	1,303	851	860	1,731	4,745
			Grand Tot	al	44,471

### Public Health nuisances abated in dwelling houses, etc., during 1959

### TABLE B 11

Abatement of Nuisance	North	South	East	West	Total
House drains cleansed	704	262	438	841	2,245
House drains repaired and relaid	240	143	171	190	745
Houses had tiling, paving, flooring, etc., repaired	644	466	563	596	2,269
Houses had water closets cleansed or repaired	913	677	681	920	3,191
Number of dustbins provided	391	48	45	123	607
Houses provided with new sinks	4	6	2	4	16
Houses had roofs repaired	1,814	1,284	1,123	1.806	6,027
	1,162	876	779	1,196	4,013
	8	24	20	34	86
	9	5	11	4	29
	1,448	1,422	1,115	1,608	5,593
Houses had minor repairs effected	107	47	27	127	308
Miscellaneous nuisances	107	4/		127	300
			Grand Tota	1	25,129
Length in feet of drain pipes laid	547	918	800	683	2,948
Gully and disconnecting traps provided	22	23	12	13	70

### Summary for 1959 in connection with dwelling houses

Complaints received and discovered					44,471
Inspections made					112,801
Statutory notices issued					19,157
Sanitary improvements carried out					25,129
Summonses issued for non-compliance w	vith :	notices			1,718
Court Orders obtained for the abatemen	t of	nuisances	**		184
Summonses for disobedience of Magistra	ites'	Orders			23
Disobedience convictions				coir	23
Amount of fines imposed by the Courts				£345	10s. 4d.

By-laws made under Section 23 of the Public Health Acts (Amendment) Act, 1890, (Relating to keeping water closets supplied with sufficient water for flushing).

Inspections during the year	100			 2,079
Notices issued under the By-Laws				 693
Summonses issued for non-compliance with notices				 84
Summonses for continuing offences				 1

### KEEPING OF ANIMALS

Action by the Department against the common house-fly continued throughout the season with the treating of stables and manure pits with a water solution of insecticide which was found to be very effective.

	Stat	ling Yards		
Number on Register			 	 156
Inspections during the year			 	 1,336
	P	iggeries		
Inspections during the year			 	 146

On 16th January, 1958, the Ministry of Health and Local Government confirmed the By-Laws for the keeping of swine within the Belfast City Boundary. The By-Laws were adopted by the City Council on 3rd December, 1956.

At the end of the year no premises were being used in the City for the keeping of pigs. The Belfast Corporation (Blackstaff River Improvement, etc.) Act (Northern Ireland) 1956, provided for compensation to be paid to pigkeepers who were unable to comply with the provisions of the By-Laws.

If by reason of the making by the Corporation of by-laws in pursuance of Section 54 of the Public Health (Ireland) Act, 1878, for the regulation of the keeping of swine on any premises in the City, any person who prior to the making of such by-laws had been keeping swine on premises in the City shall or would be put to expense in adapting such premises so as to make them comply with the requirements of any such by-laws or shall be precluded from continuing so to keep swine on such premises, the Corporation may pay compensation to such person in accordance with the following provisions:—

- (1) If the cost of adapting the said premises so as to make them comply with the requirements of any such by-laws shall or would be less than the appropriate maximum sum provided for under paragraph (2) the compensation shall not exceed the reasonable amount of such cost;
- (2) If the reasonable cost of so adapting the said premises shall be greater than the appropriate maximum sum hereinafter in this paragraph provided then—
  - (a) If the profits of keeping the swine have for each of the three years ending of the fifth day of April preceding the making of any such by-laws been brought into charge for assessment under the Income Tax Act, 1952, compensation may be paid to an amount not exceeding three times the average of the annual profits for the said three years so brought into charge.
  - (b) If the profits of keeping the swine have not for any year of the three years ending on the fifth day of April preceding the making of any such by-laws been brought into charge for assessment under the Income Tax Act, 1952, compensation may be paid to such amount not exceeding three hundred pounds as the Corporation may determine.
  - (c) If the profits of keeping the swine have for one year only, or for two years only of the three years ending on the fifth day of April preceding the making of any such by-laws been brought into charge for assessment under the Income Tax Act, 1952, compensation may be paid to an amount not exceeding three times the profits made during the year or three times the average annual profits made during the two years, as the case may be, in respect of which the profits have been so brought into charge.

The total amount of compensation paid by the Corporation in 71 claims during the year was £66,032, in amounts ranging from £300 to £5,219.

# Burial Grounds and Crematorium

Work has begun on the building of Belfast's £100,000 crematorium at Roseland Cemetery, Castlereagh—a project first mooted about 25 years ago. It is expected to be ready for use by the end of 1960. It will be the first crematorium in Ireland. The Director of Parks and Cemeteries said the crematorium would offer a much cheaper style of funeral than burial. In Great Britain 28.36 per cent—more than one in every four of the total number of funerals—went to crematoria. The proportion is increasing by two per cent. every year and when the figures are available for 1959, it is expected that cremations will account for something in the region of 30 per cent. of funerals. Cremation is unlikely to reach this level here at first because it is a new venture, but it is assumed that the proportion of one in four will be achieved eventually. Since an average of 2,500 persons are buried each year in the Corporation's cemeteries, this would mean that the crematorium could expect to deal with about 625 funerals a year. The Corporation has already purchased two gas cremators for the building at a cost of almost £6,000. Provision has been made in the plans for another two cremators. This, it is considered, will meet the demands of the future. The Crematorium, of rustic brick with artificial stone dressings and natural stone facings, will have a chapel seating 100 people, a secluded garden of rest where cremated remains may be scattered, waiting rooms, etc.

During the year three exhumations and re-interments took place at different cemeteries in the City in accordance with licences issued by the Ministry of Health and Local Government. In all cases the exhumation and re-interment was conducted with proper regard for public health and decency.

Number of burial grounds in the city	 	 	10
Number of inspections during the year	 	 	104

# Places of Public Entertainment

The main purpose of inspecting places of public entertainment is to see that the premises and sanitary arrangements are maintained in a thoroughly clean state, and that the air in cinemas, theatres and dance halls is kept as pure as possible. In Belfast the condition of the air in places of entertainment was regularly tested throughout the year.

#### Cinemas and Theatres

During the year 159 tests were carried out by means of the Kata Thermometer and Hygrometer. The number of readings recorded in these tests was 795. In 12 cinemas and theatres the dry Kata readings and rate of air movement were unsatisfactory. It was found necessary in the interest of public health and the comfort of the patrons to serve statutory notices on the management of the cinemas concerned after detailed inspections. Defects complained of were subsequently remedied. At the end of the year extensive alterations were being carried out to the heating and ventilating systems in two cinemas.

Number of cinemas and theatres in city		 40
Inspections by Sanitary Officers (including evening inspec	tions)	 732
Number of sanitary defects discovered during the year		 34
Number of sanitary defects remedied during the year		 27
Number of cinemas closed during the year		 3

# Dance Halls, etc.

During the year 72 evening inspections were made and 63 air tests carried out. The tests showed unsatisfactory conditions existing in 7 dance halls, and necessitated the service of 9 statutory notices on the occupiers concerned to carry out works to improve the ventilating systems.

Number of inspections (including evening inspec	 	533	
Number of defects discovered during the year		 	60
Number of defects remedied during the year		 	58
Number of Kata Thermometer readings		 	310

The following is a summary of defective conditions found in licensed and private dance halls, etc., inspected by Sanitary Officers of the Factories and Shops Section.

# TABLE B 12

Nature of Defects			Instances	Notices Served	Remedied	Outstanding
Insufficient ventilation			9	5	8	3
Damp or defective conditions			3	3	5	1
Dirty Conditions			10	7	8	3
Sanitary Conveniences:	vaning	wanti				
Not provided with proper inter	veimig	venti-	q	2	0	1
lated spaces			,	1 1	2	
Not provided for each sex			1	1	3	
Not properly screened		**			2	-
Not properly lighted			5	3	6	1
Not properly ventilated	9.5		1	1	1	1
In a dirty state			3	2	3	_
In a defective condition	100		3	2	3	2
Insufficient accommodation			3	3	2	1
Insufficient or defective urinal	accomm	odation	3	3	2	2
Unsuitable or want of washing	facilitie	5	3	2	3	1
Other defects			13	6	10	5
TOTALS			60	41	58*	21

<sup>\*</sup> Defects remedied include outstanding defects from previous year.

During the year, Sanitary Officers discovered five additional premises being used for public entertainment.

# PUBLIC SANITARY CONVENIENCES

Preliminary plans have been prepared for a £56,000 scheme for a new set of public conveniences in Donegall Square East to replace those in Donegall Square North, which are interfering with the smooth running of the one-way traffic scheme. It is also considered dangerous for people to have to negotiate the heavy traffic to get to them. The new conveniences will be approached through a subway at the north end of Donegall Square East. There will be stairways to the lower level from Chichester Street and Donegall Square North, which as well as giving access to the conveniences will be useful as pedestrian subways. The accommodation in each section will include five wash-hand basins and a left-parcel office. Sites have been investigated in the Donegall Road area for the erection of a new public convenience. A tender has been accepted for male and female public conveniences in Falls Park and work should commence early in 1960. Sketch plans have been prepared for attendant's room and lavatories at the Gallagher Playcentre, Severn Street.

Inspections by Sanitary Officers during the year .. .. .. 1,598

# TESTING OF DRAINAGE SYSTEMS

During the year 472 drain tests were carried out by District Sanitary Officers, Pest Control Officer, Factories and Shops Officers and Food and Drugs Officers. 252 tests were made as a result of complaints of the ingress of rats into buildings. 231 drains showed defects by smoke machine test: of this number 136 had been tested by reason of complaint of rats and the remaining 95 because of complaints of offensive odours and other causes. A Statutory Notice under the Public Health (Ireland) Acts was served on the owner in each case where defects were discovered and repairs were subsequently carried out. New drains laid in place of those found to be defective were tested by the water test.

House drains completely re-laid				 295
House drains repaired				
				 450
Drain pipes, bends, traps, gullies, etc., us	ed in re	epair of dr	ains	 3,018
PROVISION	OF DU	JSTBINS		
Notices served under Section 44, Belfast	t Corpo	oration Ac	t, 1930	 139
Summonses issued for non-compliance w	vith no	tices		3
Dustbins provided during the year	-			 3
so diocomio provided duffing the veal				-00

# MARINE STORES

Inspections during the year	 	 	 347
Number of defects discovered	 	 	 54
Number of notices served	 	 	 31
Number of defects remedied	 		56

The Pest Officers carried out 178 treatments and the cost was charged to the respective proprietors. The following is a summary of defective conditions found in Marine Stores by Sanitary Officers of the Factories Section:—

TABLE B 13

Nature	e of Dei	ect			Instances	Notices Served	Remedied	Outstanding
Walls in rooms not rendere Rooms not enclosed or prove Rooms not properly lighted	ided wit	th a prope		eiling	2 2	2 1	2 2	1
Rooms not properly ventila	ted				2	1	-	2
Rooms not provided with s Materials stored so as to obs	truct lis	ghting or	ventilation	n	2	1	2 2	1
Dustbins not provided or tra Premises not kept in a clea	n state	Organia co			7	3 4	2 8	2
Walls, ceilings, partitions, e Premises, apparatus, utensi	tc., req	uire re-de ept in a s	coration state of re	pair	6 2	3	5 1	2
Yards, loading bays, etc., n Other defects	ot prop	erly surfa	ced		1 2	1 2	- 2	1 2
Sanitary								
Not provided with proper is	nterven	ing ventil	lated spac	e	-		2	_
					2	2	2	_
Not properly screened					1	1	3	1
Not properly lighted					3	1	3	-
Not properly ventilated					The state of the s	-	2	_
In a dirty state					5	2	7	-
In a defective condition					10	3	9	2
Totals					54	31	56*	16

<sup>\*</sup> Defects remedied include outstanding defects from previous year.

# Offensive Trades

The following trades prescribed as offensive trades under the Public Health (Ireland) Acts, 1878 to 1946, were carried on at 17 registered premises within the City:—six hide and skin merchants, three fat melters, two bone boilers, three gut scrapers and three tripe cleaners and boilers.

It was not found necessary to take any formal action under the By-laws, but in eleven instances notices were served on occupiers, the defects being subsequently remedied.

Number of inspections during the year .. .. .. .. .. 170

# PRIMARY AND SECONDARY SCHOOL BUILDINGS

The Belfast City Council is the Education Authority for the City, the powers and duties of the Authority being exercised and performed through the Education Committee. Two new County Primary Schools were opened (1) Robert Bell, which will serve the Clara Park Housing Estate and (2) Springhill, which has provided much needed relief to the overcrowded Forth River and Springfield Schools. Five old buildings used as Primary Schools were closed. Megain Memorial Primary School was reduced to an Infant School by the termination of the lease of the Church premises which had been used for school purposes for many years. Strand and Mersey Street Primary Schools became reorganised primary schools by the transfer of senior girls to Ashfield Secondary Intermediate School. In the Sandy Row area, Mabel Street and Workman Primary Schools became Infant Schools and the building formerly occupied by Linfield Secondary Intermediate School, renamed Blythefield, supplied the remaining primary school places required for the area. Three new secondary school buildings and extensions to three other secondary schools came into use. Grosvenor High School transferred to

its new premises at Orangefield; Ashfield Girls' Grammar School, renamed Carolan, transferred to the new school building at Carolan Road, thereby freeing the whole of Ashfield Girls' School for the Girls' Secondary Intermediate School.

The Prime Minister of Northern Ireland opened Dunlambert Secondary Intermediate School for Boys, Fortwilliam Park, Antrim Road. The school buildings cost £250,000 and have accommodation for 840 boys. The school on a ten acre site, has a main three-storey teaching block and a two-storey block containing art and craft rooms. In all there are fifteen general classrooms, two music rooms, two social study rooms, assembly hall, administration block, gymnasium, showers and changing rooms, dining room to seat 250, kitchen, library, fine science laboratories, four woodwork rooms, metalwork rooms and modern sanitary facilities.

Linfield Secondary Intermediate School transferred to the former Grosvenor High School building in Roden Street and the new practical block erected at this school was completed and occupied. This school was renamed Kelvin Secondary School. Holy Cross Catholic Boys' School was opened in November. The building which cost  $\pounds 86,000$  has twenty classrooms with accommodation for 700 pupils. A new school kitchen and dining rooms, which are sited at Orangefield, were opened. The kitchen is capable of producing over 2,000 meals per day, of which approximately 650 are despatched to other schools. The kitchen is fitted with the most modern steam-heated equipment and can deal with every type of menu.

Nursery County Primary Schools					7
Nursery Voluntary Schools					1
County Primary Schools					73
Additional Accommodation provided	for Primar	y Schoo	ls:—		
(a) Premises rented for additional	teaching s	pace			12
(b) Premises rented for Physical I	Education				12
Voluntary Primary Schools under Schools	hool Comm	ittees			1
Voluntary Primary Schools under La	y Managen	nent			1
Voluntary Primary Schools under Ro	man Catho	lic Man	agement		64
Approved schools for children requir	ing special	educati	onal trea	tment	18
Special County Schools					6
Special Voluntary Schools					2
County Secondary Schools					18
Additional accommodation provided	for Second	ary Scho	ools:—		
Premises rented for Physical Education	ation				1
Voluntary Secondary Schools					21
Inspections by Sanitary Officers duri	ng the year				670
Defects notified by School Health Se.	rvices				5
Defects discovered by Sanitary Office	ers				26
Intimations concerning defects sent t	o Director	of Educ	ation		7
Intimations concerning defects sent t	o Managers	of Volu	intary Sch	hools	18
Sanitary improvements effected			4		9
Rivers Pollution Pr	revention A	cts 1878	-1893		
Urban Drainage A					
J			,		00
nspections by Sanitary Officers during	the year				22
Vilisances discovered and aboted					1,088
		100			34.0

During the year the City Surveyor reported to the Improvement Committee that, in view of flooding which had occurred in areas adjoining the Loop River (notably at Tierney's Lane and Knock Eden Crescent) and to provide for a greater discharge of storm water following proposed drainage works to the upper stretches of the river to be carried out by Castlereagh Rural District Council, a scheme for the improvement of the Loop River from Abetta Parade to Mount Merrion Avenue had been prepared, at a total estimated cost of £31,580. Part of the Loop River affected by these improvements forms the boundary between the City and Castlereagh Rural District and part was entirely

in the Rural District Council's area. In order to lower the water level during periods of storm, it would be necessary to lower the weir at Abetta Parade by 18 inches. The Belfast Flax and Jute Company, who own the weir, do not now use any water from the river but were anxious to retain their water rights. It was proposed that, if at any future date the mill required water from the river, the Corporation would deepen the intake channel and mill pond by 18 inches and the Company confirmed that such an undertaking would absolve the Corporation from any future claim in respect of water rights. The City Surveyor stated that, under the terms of the Urban Drainage Act (Northern Ireland) 1957, this scheme might rank for grant not exceeding one-half of the expenses incurred in carrying out the work. The necessary authority was given to negotiate with the Castlereagh Rural District Council in respect of the parts of the river within their boundaries and to approach the Ministry of Agriculture (Northern Ireland) to obtain such approval as might be necessary. The Ministry subsequently authorised the Corporation to prepare, in co-operation with the Castlereagh Rural District Council, a draft Urban Drainage Scheme for the execution of the necessary improvement works.

Belfast Corporation Finance Committee approved the raising of a loan of £460,000 to meet the Corporation's share of the cost of the Blackstaff River Improvement Scheme. The other half of the cost is expected to be borne by the Ministry of Finance. The work involves construction of a culvert from the junction of Broadway and Donegall Road to the River Lagan and the improvement of the Blackstaff River from Roden Street to a point near the Clarence Engineering Works (off Donegall Road). Subsequently the Improvement Committee accepted a tender of £857,455 for the carrying out of this project.

The Ministry of Agriculture authorised the preparation of an improvement scheme for the drainage of the Knock district of Belfast, following the heavy flooding. The main cause of the flooding in the Summerhill estate area was the Knock river. Some time ago the Belfast Corporation put forward proposals for the widening of this river and this is part of the Scheme now in progress. The Corporation's share of the cost of the works is approximately £16,000.

On two occasions the Glenwood River was blocked by large quantities of debris. The City Surveyor's Department cleansed a stretch of the river bed between Alliance Avenue and Brompton Park. Sections of the Mount Vernon and Deerpark Rivers were cleared of obstructions to relieve flooding. The Ministry of Health and Local Government contacted the Local Authority concerning the dangerous and offensive state of a mill dam at the rear of Brompton Park. The City Surveyor's Department endeavoured to trace the owners of the dam with a view to improving conditions.

During the year samples of water were taken from the following rivers for bacteriological examination at the Central Laboratory, Northern Ireland Hospitals Authority:—

Ballygomartin 1, Blackstaff 14, Carr's Glen 13, Clowney 7, Connswater 14, Downview 6, Falls 5, Farset 4, Forth 8, Glen 1, Glenwood 12, Greencastle 4, Knock 12, Lagan 11, Loop 9, Milewater 6, Moat 3, Mount Vernon 3, Parkmount 4, Pound Burn 5, Seaview 3.

The result of the examination of the water showed from 25 to 180+ coliform organisms present in 100 ml., from 0 to 180+ faecal coli present in 100 ml. and from 30 to 100,000 cl. welchii present in 100 ml. indicating that the rivers and streams are subject to pollution.

# BARBERS AND HAIRDRESSERS

The Hairdressers Act (Northern Ireland), 1939, requires that every person carrying on the trade or business of a barber or hairdresser shall be registered with the Corporation and the Council have made by-laws under this Act for securing cleanliness of premises and of instruments, towels and equipment used therein. Generally speaking, the majority of the proprietors endeavoured to maintain a good standard of hygiene. Several contraventions of the by-laws were observed during the visits, mostly of a minor character. Occupiers were warned, and upon re-inspection conditions were found to be satisfactory.

Inspections of barbers' and hairdresser	s' premi	ses durin	g the year	 1,774
Registered at 1st January, 1959				 433
Registered during the year				 26
Deleted during the year				 20
Registered at 31st December, 1959				 439

# COMMON LODGING HOUSES

Sanitary Officers are concerned with the housing of casual workers which is provided in what are known as "common lodging-houses". In recent years a vast improvement has been effected in the accommodation provided in these places, and the less satisfactory houses have been gradually terminated. In Belfast there are five registered common lodging-houses, providing accommodation for 766 males. The Health Committee is responsible for ensuring the provision and maintenance of sanitary accommodation, the abatement of public health nuisances, and precautions against the spread of infectious diseases. There is a tendency, however, these days, for certain persons to use ordinary dwelling-houses or groups of them as lodging-houses. Those who provide the accommodation do so at rates a little higher than those charged in common lodging-houses without being registered. In most cases the premises are quite unsuitable for occupation by numbers of lodgers.

Inspections by Sanitary Officers during the year .. .. .. 123

# ATMOSPHERIC POLLUTION

In the investigation of air pollution consideration must be given to the effects of the weather as this plays a large part in measurements taken at or near ground level. Winds cause turbulence and eddies which may bring down to ground level unpleasant or dangerous concentrations of gases emitted from chimneys of industrial and domestic buildings, especially during winter months and which interferes with the normal dispersal of air pollutants. Concentrations of such pollutants may reach toxic levels, producing undesirable effects—even death—in susceptible subjects. Not only does weather affect air pollution but local pollutants may affect weather as can be clearly seen in the difference between town and country during the winter. One of the effects of atmospheric pollution is to exclude health-giving ultra-violet rays of the sun and it is estimated that cities the size of Belfast receive only one-third of the ultra-violet radiation of that received in the clear open countryside. In regard to illumination it is found that the centre of a city receives only half the illumination received outside and that in really foggy weather London loses nine-tenths of the daylight because of smoke. The effects of pollution on visibility and the combination of fog and pollutants to form "smog" is obvious to all with its harmful effects on health and transport, increased cost of lighting and time lost at work.

It is rarely that Northern Ireland gets fog so dense as that experienced in London and the Midlands of England, but the severe "smogs" experienced in Belfast in the latter months of 1958 show that the high degree of local pollution in combination with fog can be as startling in its effects as that found in other parts of the United Kingdom. The news that air pollution is the subject of a Ministry of Health study is a welcome development as the seriousness of the local smog menace has been evident for many years and the measurements first started by the Health Department in 1954 show that the degree of pollution is much more severe than was previously considered. It is hoped, therefore, that this investigation of the problem will lead to an introduction of the long awaited legislation on similar lines to that of the Clean Air Act operating in Great Britain.

There is the question of whether an Act is necessary for Northern Ireland as a whole, but a general Act which leaves the initiative to local authorities should, however, be sufficiently flexible to meet every case. Legislation to clean the air should not be regarded as a further burden to industry and householders should be considered in the light of health and financial saving through greater efficiency, as there is no doubt that smoke abatement and fuel efficiency go hand in hand. Even with legislation it is not until fuel users and others of their own accord regard the avoidable discharge of impurities into the air as unthinkable (as they have for a long time regarded the disposal of sewage into open street gutters) that fully effective means of preventing or diminishing pollution will be found.

While we still look for legislation to enable effective control measures to be taken, local authorities in Great Britain are pressing ahead with existing powers and the total number of smoke control areas established and submitted for confirmation now approaches 500. This is an encouraging response on the part of local authorities in endeavouring to clean up the areas, but the Minister of Housing and Local Government is asking for faster progress, especially with regard to the domestic smoke problem, as it is recognised that half of the smoke in the atmosphere comes from domestic stoves and fireplaces where the discharge is at a low level and the establishment of a smoke control area in residential districts brings about improvements in the daily living of the residents never hitherto imagined.

A Clean Air Act in Northern Ireland would not put an end to pollution within a short time and it is obvious that the work and expense involved in the making of necessary surveys, installing or replacing appliances in both domestic and industrial premises, ensuring the supply of suitable fuels and the eventual supervision of control could cause local authorities to proceed cautiously.

In the mounting world-wide concern at the ever increasing problem of air pollution, the diesel engine has come under heavy fire and it is gratifying to note that the Traffic Control Branch of the City

Police Force are alive to the hazards created, even if only to the point of danger, through reduced visibility, to other road users. More knowledge on the cause and prevention of objectionable engine exhaust is badly wanted. This nuisance is a challenge to the oil and motor manufacturing industries to step up their researches as they are best qualified for the task and will reap the benefit of any improvement effected. Smoke in a diesel engine is a sign of inefficiency. Only an efficient engine will give the maximum advantages which the more efficient fuel combustion has to offer in the form of greater power, longer engine life and more miles per gallon. By eliminating the wastage of unburnt fuel, bills are automatically reduced.

During the past year coal merchants have been carrying out an advertising campaign in favour of the raw coal fire for domestic heating and this is to be deplored by those seeking to clean the air of pollution. Coal still has an important part to play in the fuel requirements of this country, and while industry can equip itself with means for burning coal efficiently and smokelessly, the use of coal for domestic heating should not be stimulated. Where an open fire is preferred there is no reason why, with a few simple modifications, such fires could not be converted to burning solid smokeless fuel such as coke. Much of the difficulty in burning solid smokeless fuels satisfactorily in open fires arise from too narrow bar spacing of the grate. Effective conversion of the appliance may be secured by the simple replacement of the bottom grate at very low cost with one having five-eights inch firebar spacing. With such replacements it is desirable to add gas ignition in order to secure simple and smokeless lighting of the fire and this may be accomplished easily and cheaply, where a gas point is available, by the use of a gas poker. Generally speaking, more heat is obtained when burning solid smokeless fuels than when burning the same weight of house coal. This difference, stated in the Report of the Committee on Air Pollution and confirmed by field experience, is such that the appliance efficiency when burning solid smokeless fuel is approximately one third higher than when burning house coal. Suitably installed open fires give their highest efficiency when burning solid smokeless fuels; 16 cwt. of these fuels give the same heat as 20 cwt. of coal.

The Belfast Corporation Estates Department has given a lead in constructing dwelling houses at Annadale Estate No 2. and have installed electric appliances for heating and cooking purposes. In the estate there are 247 units comprising 85 single and two-storey dwellings, 107 flats and 55 maisonettes in addition to 3 shops. From experience gained since the houses were occupied, it would appear that the weekly electricity charge, exclusive of hire, for a two bedroom dwelling, is in the region of 20/for space and water heating, cooking, lighting and general purpose usage. It is to be expected that when the tenants become more proficient in the use of power this charge will show a slight drop, and it is gratifying to note that there is 95% satisfaction from the tenants who are finding that, apart from freedom from smoke, they are free from the drudgery of fetching coal, ash removal, fire lighting, chimney cleaning and the dust and dirt which goes with the use of solid fuel.

Records of atmospheric pollution continue to be kept by means of the standard deposit gauges and lead peroxide and daily volumetric recording instruments, the number of the daily instruments having been increased at the beginning of this year from one to seven. The solid matter deposited at the ten collecting stations shows a steady fall out between January and September with the average over the period at 15 tons per square mile per month. There was a sharp rise during October when the total amount collected was 290 tons with the monthly average of 29 tons per square mile. There was a slight reduction in November, but the last three months proved to have the heaviest fall out in the period under review. The overall picture as compared with 1958 shows a reduction in the amount collected and the figures for the summer months have dropped to a level never hitherto recorded. This could possibly be accounted for by the good weather experienced this year. The highest individual recording by the deposit gauges was noted at York Road during November when 41.19 tons per square mile were recorded.

There is little material change in the amount of sulphur trioxide collected by the lead peroxide instruments in comparison with the previous year, but the two extra sites set up at Northern Road and Grove are throwing more light on the pollution from the Municipal Power Station West. It is obvious that the station is making a large contribution to the gaseous pollution of the City's atmosphere and, during March when the wind was south/east, the Grove recording site showed 9.5 milligrammes of SO<sub>3</sub> per day, which (on information received from the Department of Scientific and Industrial Research) proved to be one of the highest recordings made for that month at any point in the United Kingdom. This comparison is made against approximately 950 similar instruments maintained by various bodies. The responsibility for such a high degree of pollution does not lie with the Electricity Department but is mainly due to lack of knowledge on methods of prevention and the remedy for this problem is receiving much time and consideration, particularly from the Central Electricity Authority.

With the setting up of six additional daily volumetric recording points at Templemore Avenue, North Road, Balmoral Avenue, Falls Road, Mountcollyer Street and Lowwood Park the position

becomes more interesting as the one recording instrument sited at College Street offered no comparison on a daily basis with suburban areas of the city. These sites were selected after careful consideration and it will be observed that each instrument is sited at a point which, while distant from individual sources of pollution, could be representative of the area as a whole and covers centres of high and relatively low population. The site at Templemore Avenue, set in a densely populated area and within three quarters of a mile from the shipyards and large engineering works, is recording the highest degree of smoke pollution, while the instrument first installed at College Street in 1955 shows air in the central area of the city to have a slightly higher degree of sulphur pollution than any of the other six sites. Daily records obtained from Balmoral Avenue show this area to be the least polluted by smoke and sulphur when compared with any other area of the city, but, after a period of fog, recordings from this point can be as heavy as or heavier than those from constantly bad areas, demonstrating strongly the impurities which are thrown into the air by domestic dwellings in a strictly residential area.

The following table shows the work done in connection with smoke abatement during 1959:-

Timed observations (each over a continuous p	eriod of	30 minut	es)	 771
Number of minutes of black smoke observed				 702
Average number of minutes black smoke per	30 minut	e observa	ation	 1
Statutory notices served				 25
Verbal notices given				 58
Plant inspections and advisory visits				 618
Complaints investigated				 75
Prosecutions				 1
Number of factory chimneys (approximately)				 350

# Location of Atmospheric Pollution Recording Sites

# Health Department

1.	Ormeau Avenue	11.	College Street
2.	Blythe Street	12.	Templemore Avenue
3.	City Cemetery	13.	North Road
4.	North Howard Street	14.	Balmoral Avenue
5.	Tennent Street	15.	Falls Road
6.	York Road Station	16.	Mountcollyer Street
7.	Bryson Street	17.	Lowwood Park
8.	Ravenscroft Avenue	18.	Grove
9.	Station Street	19.	Northern Road
10.	Musgrave Channel Road		

# Queen's University, Belfast

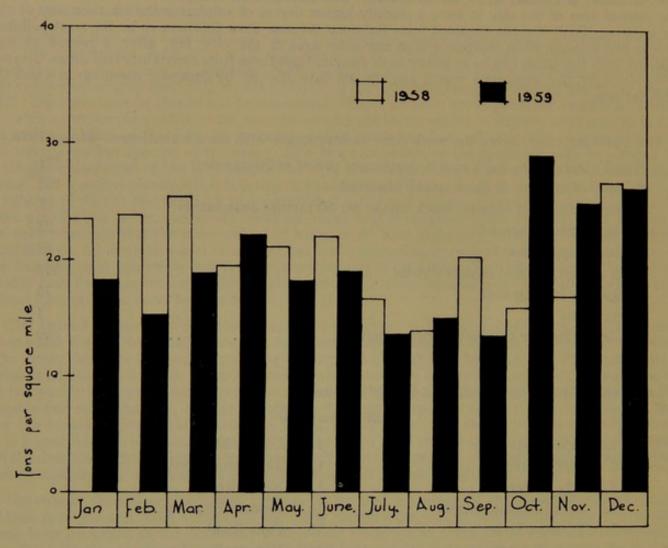
20. Royal Victoria Hospital	21.	Stranmillis Road
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# Belfast Corporation Electricity Department

22.	Sydenham Airport		27.	Templemore Avenue
23.	Duncrue Street		28.	East Bridge Street
24.	Great Patrick Street		29.	Victoria Works, Queen's Road
25. 26.	Skegoneill Street Park Avenue	56.16	30.	Thompson Dock, Queen's Road East Twin Lighthouse

CRAPH 1.

Monthly averages of solid matter deposited in tons per square mile.



Solid matter deposited in tons per square mile at collecting stations during 1959 — (see also graph 1)

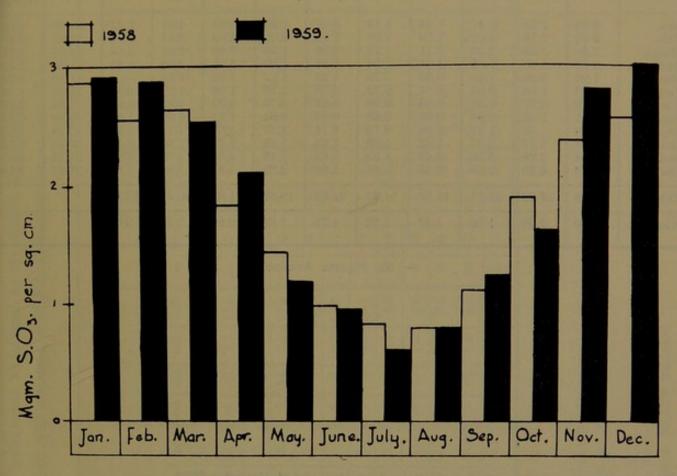
TABLE B 14

	STATIONS												
MONTH	1	2	3	4	5	6	7	8	9	10	Totals	Month Averag	
Jan.	27.84	13.25	8.52	17.94	14.66	23.34	22.22	10.81	19.10	21.74	179.42	17.9	
Feb.	27.43	11.01	5.81	17.91	12.47	27.25	13.46	8.73	20.44	12.90	157.41	15.7	
Mar.	36.01	12.96	10.30	17.07	15.68	27.38	14.83	12.35	27.15	14.27	188.00	18.8	
April	34.22	18.46	11.38	19.14	15.67	33.35	21.27	18.02	30.57	21.88	223.96	22.3	
May	33.98	16.61	13.86	14.87	13.68	22.41	16.38	9.93	27.28	14.64	183.64	18.3	
June	29.90	13.22	10.04	16.94	20.70	27.85	14.13	16.21	26.31	15.87	191.17	19.1 14.0	
July	18.41	12.55	8.86	13.44	10.13	26.18	11.72	8.99	19.84	10.51	140.63	15.3	
August	25.08	11.71	6.81	11.54	13.01	23.64	13.52	11.71	23.76	13.10	153.88	13.3	
Sept.	25.30	10.97	7.99	12.20	15.81	16.54	11.75	6.04	16.07	10.44	133.11 290.48	29.0	
October	38.71	22.48	14.03	26.78	29.29	37.69	27.01	21.18	34.23	39.08	The second secon	25.1	
Nov.	28.58	19.83	10.77	22.98	24.62	41.19	25.84	19.03	32.08	26.61	251.53	26.4	
Dec.	29.69	21.54	14.56	27.95	34.90	36.59	23.43	18.35	33.39	34.41	264.81	20.4	
Totals	355.15	184.59	122.93	218.76	220.62	343.41	215.56	161.35	310.22	235.45			
Averages	29.59	15.38	10.24	18.23	18.22	28.45	17.96	13.44	25.85	19.62			

# **Sulphur Pollution**

GRAPH 2.

Monthly average weight of S.Oz per 100 square centimetres exposed surface per day. (Lead peroxide method).



Sulphur determination by the lead-peroxide method at the twelve stations during 1959—(see also graph 2)

TABLE B 15

							STAT	IONS						
MONTH	1	2	3	4	5	6	7	8	9	10	18	19	Totals	Monthly Average:
January February March April May June July August Sept. October Nov. Dec.	2.5 2.2 1.5 1.5 1.9 1.1 0.6 0.9 1.0 1.3 2.5 2.9	2.1 2.1 0.9 3.4 1.1 0.55 0.45 — 1.0 1.3 2.2 2.0	1.1 0.8 0.12 0.45 0.9 0.27 0.09 0.23 0.3 0.5 0.8 0.9	5.7 4.5 3.2 2.5 1.3 1.0 0.54 0.8 1.3 2.3 3.6 3.7	2.5 2.4 2.3 1.4 0.9 0.55 0.36 0.5 1.0 1.5 2.3 3.5	3.2 3.0 2.4 2.0 1.5 0.9 0.8 0.9 1.3 1.9 3.6 2.3	3.6 2.8 2.3 2.2 1.5 1.0 0.7 0.8 1.3 2.0 3.3 3.0	2.7 2.2 1.5 1.4 1.2 0.9 0.54 0.6 0.9 1.6 2.3 2.5	3.2 3.6 2.8 2.2 1.6 1.1 0.8 1.0 1.3 2.1 3.7 4.6	2.9 2.3 1.6 2.5 1.1 1.9 0.7 1.9 1.0 2.1 2.3 2.8	3.2 5.8 9.5 5.0 1.0 1.7 1.7 1.1 3.7 2.0 3.0 4.5	1.9 2.6 2.3 1.4 0.7 0.7 0.45 0.5 1.1 1.2 3.7 4.9	34.60 34.30 30.42 25.95 14.70 11.67 7.73 9.23 15.20 19.80 33.30 37.60	2.88 2.86 2.53 2.16 1.22 0.97 0.64 0.84 1.27 1.65 2.78 3.13
Totals	19.9	17.1	6.46	30.4	19.2	23.8	24.5	18.3	28.0	23.1	42.2	21.4		
Averages	1.6	1.5	0.54	2.5	1.6	2.0	2.0	1.5	2.3	1.9	3.5	1.8		

# ${ m SO_3}$ per 100 sq. centimetres as recorded by instruments maintained by Belfast Corporation Electricity Department

TABLE B 16

	STATIONS												
MONTH	22	23	24	25	26	27	28	29	30	31	Totals	Month! Average	
Jan. Feb. March April May June July August Sept. October Nov. Dec.	3.09 3.44 2.39 3.02 1.90 2.03 1.58 1.41 1.79 3.71 3.74 4.26	2.25 2.76 3.08 1.76 0.80 1.06 0.77 1.16 1.40 2.67 2.99 4.33	2.91 3.02 2.33 1.85 1.43 0.98 0.68 0.90 1.37 2.07 3.08 2.89	1.94 2.18 2.11 1.34 0.56 0.74 0.45 0.68 0.96 1.82 2.43 2.45	2.19 1.66 1.28 1.24 0.78 0.73 0.36 0.53 0.72 1.56 1.83 1.82	3.07 2.56 2.05 1.85 1.23 0.76 0.57 0.73 1.14 1.63 2.83 2.60	1.89 2.08 1.35 1.29 1.27 2.15 0.78 0.94 1.77 1.88 2.15 2.25	4.53 3.99 2.48 3.60 1.62 1.06 0.62 1.03 1.04 2.76 4.38 4.54	4.37 3.88 2.81 3.08 1.59 1.27 0.83 0.91 1.11 2.04 4.79 3.80	2.42 3.10 2.64 2.25 	28.66 28.67 22.52 21.28 11.18 11.53 7.54 9.38 12.29 22.28 31.78 31.83	2.86 2.86 2.25 2.12 1.24 1.15 0.75 0.93 1.22 2.22 3.17 3.18	
Totals	32.36	25.03	23.51	17.66	14.70	21.02	19.80	31.65	30.48	22.72			
Averages	2.69	2.09	1.96	1.47	1.22	1.75	1.65	2.64	2.54	2.06			

- No Figures Available

TABLE B 17

# Rainfall at ten deposit gauge stations for 1959

CTATION	RAINFALL IN INCHES												
STATION	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
No. 1	1.81	0.99	2.60	2.40	1.22	2.21	3.35	0.83	1.26	3.66	3.15	5.36	
No. 2	1.81	1.10	2.68	2.64	1.22	2.32	4.22	0.87	1.30	3.51	3.39	5.79	
No. 3	2.09	1.30	2.48	2.99	1.26	2.60	5.04	0.83	1.54	3.74	3.15	2.28	
No. 4	1.89	1.02	2.56	2.36	1.38	2.05	4.33	0.83	1.50	3.62	3.19	5.67	
No. 5	1.89	1.14	2.84	2.21	1.34	1.81	4.61	0.83	1.58	3.35	3.35	5.63	
No. 6	1.65	0.87	2.29	2.17	1.34	2.21	3.32	0.79	1.30	3.35	2.99	5.16	
No. 7	1.69	0.83	2.44	2.32	1.42	2.32	2.84	0.95	1.14	3.94	3.11	5.59	
No. 8	1.50	0.79	2.29	1.93	1.30	2.60	2.09	0.95	1.02	3.47	3.07	5.40	
No. 9	1.65	0.99	2.48	2.17	1.34	2.09	2.92	0.95	1.18	3.59	3.31	5.40	
No. 10	1.38	0.83	1.85	1.85	1.18	2.29	2,88	0.79	1.10	3.19	2.36	3.70	
Monthly Average	1.73	0.98	2.45	2.30	1.30	2.25	3.56	0.86	1.29	3.54	3.10	4.99	

# Results of the Daily Volumetric Instruments maintained by the Health Department

(Concentration of Smoke (Milligrams per 100 cubic metres) and Sulphur Dioxide (parts per 100 million))

# TABLE B 18

		SO2	hdr	15.1	12.2	6.6	9.1	7.0	2.5	1.6	1.6	2.9	5.3	14.8	7.1	
	17	SC	ma	4.5	4.2	3.5	3.6	2.5	1.1	0.7	0.5	1.5	2.1	3.1	3.0	
	1770	Smoke	hdr	70	79	26	33	14	5	31	20	18	34	106	63	
		Sm	ma	25	26	11	00	9	2	-	2	7	6	24	18	
		50	hdr	28.0	6.81	21.4	14.8	10.5	3.3	2.1	1.9	3.8	7.4	20.1	16.3	
		SO2	ma	8.6	9.1	6.4	5.2	3.0	1.6	1.1	6.0	2.6	2.9	5.3	6.5	
	16	Smoke	hdr	110	105	40	50	28	16	9	10	28	42	106	51	1
188		Sm	ma	41	4	24	16	10	9	3	4	13	15	30	27	
		)2	hdr	16.7	8.8	8.9	5.3	5.8	1.7	1.5	1.5	2.7	2.6	8.4	5.6	
	15	SO2	ma	4.8	3.2	3.2	2.7	2.4	0.7	0.7	0.4	1.1	1.1	2.2	2.1	
		Smoke	hdr	73	67	25	23	24	7	5	10	18	21	58	52	
		Sm	ma	28	24	10	7	00	3	2	3	œ	00	19	18	
"		63	hdr	22.3	10.5	5.6	14.8	7.7	1.5	2.1	1.8	4.0	3.0	8.0	7.2	
STATIONS		SO2	ma	5.0	3.3	2.5	3.1	2.7	0.7	0.7	0.4	1.2	1.2	1.8	2.1	1
STA	14	Smoke	hdr	78	88	26	24	30	9	œ	10	27	33	55	74	1
		Sm	ma	28	21	6	9	00	2	-	2	10	7	13	13	
		25	hdr	20.1	20.9	6.7	8.6	7.2	1.9	1.5	2.8	2.7	4.3	10.3	4.5	
	3	SO2	ma	5.6	4.2	2.5	3.5	2.0	1.0	8.0	0.7	1.1	1.7	2.9	2.4	1
	13	Smoke	hdr	57	116	33	23	15	9	3	7	26	17	89	52	
		Sm	ша	27	24	11	00	9	3	-	2	9	00	18	14	-
		20	hdr	36.6	25.7	9.4	11.1	14.4	5.6	2.6	2.6	9.9	6.4	16.3	10.6	
	•	SO2	ma	10.1	9.1	4.4	6.3	3.6	1.8	1.1	1.2	2.5	2.6	4.6	4.4	
	12	Smoke	hdr	120	142	59	39	37	13	7	12	41	38	93	83	
		Sm	ma	53	45	24	19	14	5	3	4	14	15	30	59	١
		25	hdr	25.2	33.9	13.0	6.11	11.4	3.6	2.4	2.6	6.4	7.5	18.3	11.0	
	-	SO2	ma	11.8	9.2	6.9	0.9	4.4	6.1	1.3	1.3	2.9	3.2	2.7	3.0	
	11	Smoke	hdr	86	133	43	37	27	13	7	91	41	43	94	62	
		Sm	ma	45	37	20	16	13	5	3	9	15	15	33	20	
	Month			January	February	March	April	May	June	July	August	September	October	November	December	

ma-Monthly Average. hdr-Highest Daily Reading.

# Heaviest Pollution-

Smoke—Templemore Avenue 3rd February, 142 Mg. per 100 cubic metres. SO2 ,,

# Lightest Pollution-

Smoke—Balmoral Avenue and North Road 7th July. No Smoke Recorded. SO2 — Balmoral Avenue and Falls Road 25th August. No SO2 Recorded.

# Results of Daily Volumetric Instruments Maintained by Queen's University, Belfast TABLE B 19

		STATION											
MONTH		2	0			21							
MONTH		Smoke		2	Smo	Smoke SO							
	ma	hdr	ma	hdr	ma	hdr	ma	hdr					
January	41	109	9.5	23.0	-		_	_					
February March	28 20	102	6.8	20.3	-	-	-	-					
Ameil	12	42 36	4.5 3.1	8.8	23	52	5.0	9.0					
Mare	14	32	3.8	7.7 8.4	16	34 30	4.3 3.9	7.6					
June	4	11	0.9	1.9	13 5 3	13	1.0	10.1					
July	3	12	0.5	1.9	3	5	0.3	1.1					
August	3 5	16	0.9	2.1	4	6	0.6	1.9					
September	15	37	3.5	7.2	11	21	2.4	1.9 4.6					
October	13	31	2.8	6.5	14	41	2.7	7.2					
November	25	86	3.2	11.5	23	81	2.9	13.2					
December	22	84	2.5	10.7	22	69	2.7	9.5					

- No Figures Available

# PORT SANITARY

The Corporation of Belfast as the Sanitary Authority was permanently constituted the Port Sanitary Authority for the Port of Belfast by the Local Government Board (Ireland) Provisional Orders Confirmation (No. 4) Act, 1900.

The expenses of the Port Sanitary Authority are contributed by the Urban and Rural Sanitary Authorities in the following proportions:—

The Corporation of Belfast	 	92 per cent.
The Carrickfergus Urban District Council	 	1 per cent.
The Holywood Urban District Council	 	1 per cent.
The Bangor Borough Council	 	1 per cent.
The Newtownabbey Urban District Council	 	1½ per cent.
The Castlereagh Rural District Council	 	1½ per cent.
The Larne Rural District Council	 	1 per cent.
The North Down Rural District Council	 	1 per cent.

# I. Amount of Shipping entering the Port during the year 1959

TABLE B 20

			Number	Inspected	Number	Ships	Ships reported as having had, during
	Number	Tonnage	By Medical Officer	By Sanitary Officer	recorded as defective	on which defects have been remedied	the voyage, infectious disease on board
FOREIGN: Steamers Motors	931	1,416,818	93	931	115	101	13
COASTWISE: Steamers Motors	6,687	4,575,187	17	1,037	171	160	7
TOTAL	7,618	5,992,005	110	1,968	286	261	20

# II. Character of Trade of Port

(a) Passenger Traffic (other than coastwise) during the year

TABLE B 21

Dessangers	Ali	iens	Brit	ish	То	tal	Refused
Passengers	Forces	Civilians	Forces	Civilians	Forces	Civilians	leave to land
Inwards by ship	- I	97+ 199 granted T.S.L. not landing	-	301	-	398+ 199 T.S.L.	2
Inwards by Aircraft	83	232	111	787	83	1,019	-
TOTAL	83	329+ 199	_	1,088	83	1,417+ 199	2
							Refused leave to embark
Outwards by ship Outwards by	-/	55		195		250	Nil
Aircraft	69	192	-	725	69	917	Nil
TOTAL	69	247	-	920	69	1,167	Nil

T.S.L.—Temporary Shore Leave.

# (b) Cargo Traffic:

Principal Imports: Maize, Wheat, Barley, Oats, Flour, Butter, Fresh, dried and canned Fruits, Meat and Meat Products, Tea, Fish, Vegetables, Eggs (Frozen and powder), Wines, Ales, Cordials, Carobs, Grain, Offals, Cattle, Pig and Poultry Fodder, Hides (cured), Timber, Wood-pulp, Paper, Flax, Hemp, Coir, Rayon Fibre, Chemicals, Fertilizers, Oil, Coal, Coke, Duralium, Tinplate, Steel, Cement, Building materials, Tar, Vehicles, Tobacco.

Principal Exports: Machinery, Ropes and Twine, Linen, Thread, Tobacco, Cigarettes, Potatoes, Eggs, Grass-seed, Poultry, Fresh Fish, Shellfish, Apples, Whiskey, Live Cattle, Sheep and Pigs, Hides (wet), Pork, Steel and Iron scrap.

# (c) Foreign Ports from which ships arrived:

Abo 2; Abidjan 1; Adelaide 2; Albany 1; Algiers 3; Alicante 3; Almeria 1; Amsterdam 8; Antwerp 40; Ards 1; Archangel 8; Arklow 1; Askarshamn 1; Aveina 1; Ballina 5; Baltimore 6; Baei Comeau 1; Bathurst 1; Bay Bull 2; Bayonne 5; Beira 10; Beirut 1; Bona 1; Boston 1; Bremen 3; Bremerhaven 1; Bridgewater 1; Brisbane 2; Buenos Aires 2; Bunbury 1; Caen 1; Calcutta 3; Capella 2; Capetown 10; Cartagena 11; Casablanca 8; Ceuta 1; Chittagong 1; Civita Vecchia 2; Cobh 2; Cochin 1; Colombo 4; Constanza 3; Copenhagen 21; Cork 6; Corpus Christi 1; Curaco 4; Dakar 18; Dar-es-Salaam 4; Demerara 1; Detroit 1; Dieppe 2; Douranenez 1; Dublin 82; Dundalk 4; Dunkirk 9; Durban 7; Duluth 6; Drammen 1; Droheda 4; Esbjerg 6; Emden 1; Famagusta 6; Frederiksund 5; Freetown 5; Fremantle 5; Galveston 3; Geelong 1; Genoa 5; Geraldton 2; Ghent 45; Gothenburg 11; Guernsey 37; Gydnia 1; Haifa 4; Halmstead 1; Hamburg 30; Hamina 2; Haukapudis 2; Helsinki 6; Huelva 4; Horta 1; Houston 3; Husavic 1; Istanbul 3; Izmir 1; Kalamata 1; Kalmas 1; Kotka 11; Lagos 1; Larvik 5; Las Palmas 4; Le Guildo 1; Le Havre 2; Le Leque 2; Le Treport 1; Leghorn 1; Leixoes 1; Letterkenny 4; Libau 1; Liepae 1; Limasol 1; Lisbon 1; Lobito 1; Lourenco Marques 1; Los Angeles 1; Lyndiane 1; Madras 1; Malaga 1; Mantyluto 3; Marseilles 2; Matadi 1; Melbourne 2; Messina 2; Mobile 2; Moirana 1; Mombasa 8; Montreal 19; Mostaganem 6; Moville 1; Naples 2; Nemours 1; New Orleans 5; Newport News 4; New Westminster 1; New York 1; Nordenham 1; Norfolk, Va. 7; Norrkoping 2; Odda 1; Oporto 1; Oslo 7; Oran 10; Palmero 1; Patras 1; Philippeville 2; Philadelphia 3; Piraeus 3; Pondicherry 1; Port Albernie 1; Port Alfred 8; Port Arthur 3; Port Churchill 2; Port Lincoln 1; Port Pine 1; Port Sudan 1; Port of Spain 1; Prince Rupert 11; Rangoon 2; Randers 1; Reykjavik 1; Rosslare 1; Rosario 2; Rostock 1; Rotterdam 66; Rouen 24; Salerno 1; San Lorenzo 1; Sapele 1; Sindrishamn 1; Skagen 4; Skien 2; Sligo 2; Sorel 1; South Nelson 1; Split 1; St. John, N.B. 19; St. Johns, N.S. 1; Stettin 5; Stenshaven 1; Suez 1; Sourabaya 1; Sydney 6; Tahses 1; Takoradi 2; Tallin 2; Tangier 1; Toledo 1; Toronto 3; Torshaven 1; Toronto 3; Toronto haven 1; Torrevieja 1; Three Rivers 1; Trinidad 1; Tunis 3; Valencia 7; Vancouver 11; Venice 1; Walvis Bay 3; Waterford 18; Westport 1; Wexford 1; Weymouth 3; Wilmington 7; Windsor, N.S. 1; Wismar 4; Wormerveer 3; Zyghi 3.

47

The nationality of the ships which arrived at the Port and were inspected was as follows:-

Belgian 8; British 1,258; Costa Rican 2; Chilean 1; Danish 36; Dutch 431; Finnish 4; French 4; German 76; Greek 6; Icelandic 2; Israeli 1; Italian 7; Japanese 1; Liberian 12; Moroccan 1; Norwegian 34; Panamanian 5; Polish 6; Republic of Ireland 23; Roumanian 2; Russian 5; Spanish 12; Swedish 30; Yugo-Slavian 1.

# The Aliens Order 1953: (S.I.1671/1953)

Under Articles 30 and 33 of the above Order, Dr. W. G. Swann, Dr. J. McA. Taggart, Dr. W. J. McLeod and Dr. A. L. Walby have been appointed by the Ministry of Health and Local Government as Medical Inspectors for the Port of Belfast for purposes of the Order.

Ships carrying aliens including those granted T.S.L. 125 inwards; 33 outwards Aircraft carrying Aliens . . . . . . . . . . 17 inwards; 14 outwards

# III. Water Supply

(a) and (b) for Port and Shipping:—

The water supply for the port and shipping is taken from the mains which supply the City and the surrounding districts of Belfast.

The supply is controlled by the Belfast City and District Water Commissioners who have hydrants on all quays and wharves.

(c) Water Boats:-

There are no waterboats at the port.

# Water Sampling

42 samples of water were taken on board ships and submitted to the Public Health Laboratory for bacteriological examination. 30 of these samples were reported as highly satisfactory and 12 samples as unsatisfactory because of the presence of coliform organisms which in 2 cases were of faecal origin. Where analysis revealed contamination the ships water supply, tanks, pumps and systems were thoroughly cleansed, flushed and chlorinated with effective results in every case.

# IV. Public Health (Ships) Regulations (Northern Ireland), 1954

# 1. Arrangements for dealing with Declaration of Health Forms:

Declaration of Health Forms as recommended by the Association of Sea and Air Port Health Authorities of the British Isles are in use at the Port. Special instructions relative to the Port of Belfast are given on the fourth page and a supply of these forms is distributed to H.M. Customs Officers and the Belfast Harbour Commissioners for the use of the Pilotage service.

A Declaration of Health Form signed by the master and countersigned by the Ship's Surgeon (where one is carried) is received from each ship arriving at the port from a foreign port. The Declaration of Health Form is received by the Customs Officer or the Port Sanitary Officer on the arrival of the ship. The answers to the questions contained in the Declaration are scrutinised and supplementary questions asked.

In cases where the Customs Officer first boards the ship and the Declaration of Health is satisfactory, pratique is granted. If the Declaration of Health is not satisfactory, the circumstances are immediately reported to the Port Medical Officer, who makes investigations before passengers or crew are allowed to land.

Ships arriving at the port are required to display the appropriate quarantine signals as laid down in the regulations.

2. Boarding of ships on arrival:-

All ships arriving from a foreign port are boarded on arrival by an officer of H.M. Customs and an officer of the Port Sanitary Authority.

3. Notification to the Authority of Inward Ships requiring special attention (Wireless messages, land signal stations, information from pilots, Customs Officers, etc.):—

Arrangements for the transmission of wireless messages from inward bound ships requiring special attention under the Regulations have been made with the various shipping companies and

agents in Belfast. Under the arrangements the Shipping Companies receive the wireless message required under Regulation 13 and forward the information to the Port Medical Officer.

Alternatively, or in addition, wireless messages are received direct by the Port Sanitary Authority, the telegraphic address "Portelth Belfast" having been registered for this purpose. (Regulation 14 (1) and (2)).

No land signalling system is in operation.

Close co-operation exists between the Port Sanitary Authority and the Officers of H.M. Customs and notifications of ships requiring special attention are received from the latter.

# 4. Mooring Stations designated under Regulations 22 to 30:-

- (a) Within the Docks:—With the concurrence of H.M. Customs and the Belfast Harbour Commissioners, the ordinary places of mooring, discharge or loading, in relation to inward ships from foreign ports, have been designated "Mooring Stations" within the docks.
- (b) Outside the Docks:—The outside mooring station is situated at Carrick Roads, about threeand-a-half miles from the nearest point of the docks. Infected or suspected ships or other ships which may be unhealthy are required to proceed to established mooring stations.

# 5. Particulars of any standing exemptions from the provisions of Regulation 6:-

Standing exemptions from detention under Regulation 6 are granted:—

- (a) In the case of ships arriving from a port or seaboard included in the list referred to in Regulation 6, unless such port or seaboard has been specially referred to in the weekly list, or special instructions have been issued in regard to same
- (b) In the case of vessels having on board one of the common infectious diseases such as Scarlet Fever, Measles, Tuberculosis, Mumps, Diphtheria, Whooping Cough, Influenza, or Malaria.

During the year 4 contacts of Small-Pox, 1 contact of Dysentry and 1 contact of Gastro-Enteritis whose arrival in Belfast had been advised by other Sea and Air Port Health Authorities, were kept under surveillance for the requisite periods.

# 6. Experience of Working of Regulation 18: restriction on boarding or leaving ships:

In carrying out the provisions of this Regulation during the year no difficulty arose and it was not necessary to require passengers to furnish names and destinations, etc., as there was no case of infectious disease on board any ship arriving at the port which required this procedure.

# 7. Arrangements made for:-

Regulation 5 (c) (i): Premises or Waiting Rooms for Medical Inspection:—There are at present no premises set apart as a Customs Examination Hall, waiting rooms and rooms for medical inspection of passengers, as there are no direct passenger sailings between this port and foreign ports. Passengers who arrive by direct cargo ships from foreign ports are examined, if necessary, on board the particular ship.

Regulation 5 (c) (ii): Premises for temporary isolation of persons as required by the Regulations:

None provided.

Regulation 5 (c) (iii): Cleansing, Disinfecting or disinfestation of ships, persons or clothing:—After the removal of a case or cases of infectious disease, disinfection of the ship is carried out by the Port Sanitary Officers. Clothing and other effects are removed to the Health Committee's Disinfecting Station, Laganbank Road, where they are subjected to steam pressure disinfection. The cleansing of persons is also carried out at this station at which suitable facilities have been provided for this purpose.

Regulation 5 (d): Arrangements for reception into hospital of persons as required by the Regulations: The Northern Ireland Hospitals Authority make provision for the reception of cases of infectious diseases at the Northern Ireland Fever Hospital at Purdysburn. Separate premises situated in the hospital grounds, but self-contained and isolated from the other hospital buildings, are available for the reception of cases of smallpox.

Regulation 5 (e): Ambulance Transport:—The port makes use of the facilities provided for ambulance transport in the City by the N.I. Hospitals Authority.

Regulation 5 (f): Supervision of Contacts:—When contacts of infectious disease are members of the crew they are kept under supervision by the Port Medical Officer. In the case of passengers or crew landing, their destinations are ascertained. Should they proceed to a place outside Belfast, the Medical Officer of the relevant district is notified.

During the year 1 contact of chickenpox, 1 contact of gastro-enteritis, 1 contact of typhoid fever and 1 contact of German measles, whose arrival in Belfast had been advised by other Sea and Airport Health Authorities, were kept under surveillance for the requisite periods.

# 8. Arrangements for Bacteriological or Pathological Examination of Rats for Plague:—

Bacteriological and Pathological examination of rats for Plague is carried out by arrangement with the Director of Laboratory Services, Northern Ireland Hospitals Authority.

# 9. Arrangements for other Bacteriological and Pathological Examinations:

All other bacteriological and pathological examinations are carried out by arrangement with the Director of Laboratory Services, Northern Ireland Hospitals Authority.

# 10. Arrangements for the Diagnosis and Treatment of Venereal Diseases among Sailors under International Agreement:—

Upon the arrival of ships in the port, information is given to the master as to arrangements for the diagnosis and treatment of venereal disease amongst sailors. Pamphlets are left on board which give the location and time of V.D. clinics. The pamphlets give warning of the danger of the disease. Every encouragement is given for attendance at the following clinics:—

The Royal Victoria Hospital
The Mater Infirmorum Hospital.

When continuation of treatment at other ports is necessary, the Sailor's Form V.44 is filled in by the Medical Officer in charge of the V.D. clinic, giving full particulars of the treatment received by the sailor.

The Belfast Harbour Commissioners have permitted the permanent display of posters issued by the Health Department containing similar warning and information regarding Treatment Centres in the dock side lavatories and urinals.

# 11. Arrangements for Interment of the Dead:-

All arrangements for the interment of the dead are attended to by the shipping companies.

# Cases of infectious sickness landed from ships (including coastwise ships)

# TABLE B 22

Diame	Cases duri	ng 1959	Ships	Average Cases for previous	
Disease	Passengers	Crew	Concerned	five years	
Dysentery	- 4 4	3 2 2	2 2 2 2 4	1 4 1 11	

# Cases of infectious sickness occurring on ships during the voyage but disposed of prior to arrival TABLE B 23

	CONTRACTOR OF THE PARTY OF THE	Cases durin	ng 1959	Ships	Average cases for previous
Disease		Passengers	Crew	Concerned	five years
Chicken Pox Dysentery Impetigo Influenza	::	Passengers Crew  - 1 - 5 - 1 - 6	1 5 1 6	1 2 1 3 3	1 - 7
Malaria Tonsillitis			1	ĩ	The second

No cases of Plague, Cholera, Yellow Fever, Smallpox, Typhus Fever, or Relapsing Fever occurred, and no plague-infected rats were discovered during the year.

# V. Measures Against Rodents.

# 1. Steps taken for detection of rodent plague:-

In Ships in Port:—All ships arriving from ports where plague is endemic are boarded by the Port Sanitary Officer as soon as possible after berthing. Enquiries are made as to the prevalence of rats on board, and as to whether any sick or dead rats were found during the voyage. The ships are then inspected to ascertain the degree of rat infestation, and are periodically inspected during the time they remain in port in order to ascertain if any dead rats have been found in the cargo.

# 2. Measures taken to prevent the passage of rats between ship and shore:

All ships arriving from foreign ports are required to affix rat-guards to all moorings and maintain them so fixed during the time they are in port. It is also recommended that the gangway or other communication with the shore should be raised at least eighteen inches from the ground.

# 3. Methods of Deratting of Ships, etc.:

- (a) Ships: Deratting of ships is carried out by fumigation with hydrogen cyanide. The fumigation is carried out by contractors under the supervision of the Port Sanitary Officers, the minimum concentration being two ounces per thousand cubic feet with a minimum of two hours exposure.
- (b) Premises in the vicinity of docks, quays, etc.:—The various shipping companies and occupiers of premises in the vicinity of the docks carry out at the request of the Port Medical Officer, such works as may be necessary for the extermination of rats. Notices are issued, if necessary, under the Rats and Mice (Destruction) Act, 1919, and are served on the occupiers of the premises.

# 4. Measures taken for Detection of Rats in Ships and on Shore:-

- (a) In Ships:—Ships arriving in the Port are inspected by the Port Sanitary Officers who ascertain whether or not they are infested with rats.
  - (b) On Shore:-Stores in the vicinity of the docks are inspected regularly for the detection of rats.

# 5. Rat Proofing:

# (a) Extent to which docks, wharves, warehouses, etc., are ratproof:

The docks and wharves on the County Antrim side of the Port are so constructed as to be as nearly ratproof as possible. The floors of the sheds and warehouses and the roadways leading thereto are constructed of concrete or granite setts laid on concrete.

On the County Down side the wharves are mostly erected on piles and these afford a certain amount of harbourage, but as these are used principally for the discharge of coal, ores, steel, etc., they are not so attractive to rats as those where grain and foodstuffs are landed.

# (b) Action to extend ratproofing:-

- (1) In Ships:—Efforts are directed toward sealing vulnerable places such as provision stores and pantries where food is kept. This is generally done by encasing with sheet metal and closing the means of access for rats between one apartment and another so as to make them as ratproof as possible.
- (2) On Shore:—Periodical inspections are made by the Port Sanitary Officers to see that the various premises in the vicinity of the docks are kept in good condition.

Most owners and occupiers of the premises are aware of the damage caused by rats to merchandise and take every precaution to prevent the access of rats to their premises.

# Number of Rats Destroyed during the year

# (1) On Ships:—

# TABLE B 24

Species	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Black Brown	2	2	1 1	2			3		4		2	-	16 6

Note: In addition to above, 24 mice were destroyed.

# (2) In Docks, Quays, Wharves, Warehouses:-

# TABLE B 25

Species	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Black Brown	2 3	2 4	9	3	-8		3 15	-8	1 5	_	3	-	11 63

In addition to above 65 mice were destroyed. Number of rats destroyed, as recorded in above table, were only those which came to the notice of the Port Sanitary Officers.

The sheds and stores on the Belfast Harbour Commissioners estates, the shops, stores, building and fitting out berths of the Ship Building and Ship Repairing Companies also the Belfast Corporation Power Stations are baited regularaly by experienced operators, using chiefly warfarin, with effective results and considerable reduction in recent infestation.

Measures of rat destruction on plague "infested" or "suspected" ships or ships from plague-infected ports arriving during the year:—

No plague "infested" or "suspected" ships arrived in the Port of Belfast during the year.

Deratting Certificates and Deratting Exemption Certificates issued during the year:-

TABLE B 26

				Deratting Certificates Issued				Deratting		
Net Tonnage		Ships	After	After Fumigation w		After		Exemption Certifi-	Total	
			HCN Su		HCN and Sulphur	Trap- ping, Poison- ing, etc.	Total	cates Issued		
Up to 300 tons		18	-	-	-	-	-	18	18	
From 301 tons to 1,000 tons		21	-	-	-	-	-	21	21	
From 1,001 to 3,000 tons		8	-	-	-	-	-	8	8	
From 3,001 to 10,000 tons		25	3	-	-	-	3	22	25	
Over 10,000 tons		4	1	-	-	-	1	3	4	
TOTALS		76	4	-	-	-	4	72	76	

# VI. Hygiene of Crews Spaces:

Classification of Nuisances:-

TABLE B 27

Nationality of Ship	Inspected during 1959	Defects of Original Construction	Structural Defects through wear and tear	Dirt, vermin, and other conditions prejudicial to health
British	1,528	_	86	251
Other Nationalities	710	-	20	115

TABLE B 29

							British	Other Nationalit
Defects due to wear and	tear:							
W. C. joints							1	-
W.C. Flushing Valves							3	1
Urinal Flushing Valves		***			**		1	-
W.C. Basins							5	_
W.C. Seats		**	***		**	**	3	
Wash Basins							4	-
		**	**		11	**	5	
Flue pipes to stoves Heating stoves							1	
Soil discharges (W.C. an	d Heinall	**	**		***	**	6	
Portlights							14	- 0
		**	11			**	15	6 8
Waste Pipes							2	1
Filing							ī	
Refrigerators (overhaule	d)						5	THE RESERVE OF THE PARTY OF THE
Service pipe					100		_	1
							2	î
Coffee, milk and water b				1. 19			1	2
Urinal Stalls							î	100 I 200 I
Urinal Stalls Heating system (overha	aled)				12		2	
Slop Shute							1	
Ventilation system (over	hauled)						3	The second second
Sinks							1	
Tables (recovered)					7.		î	
Scupper pipe Deck-head insulation							1	
Deck-head insulation							1	1
Drinking water filters (o	verhauled	1)					2	_
Doors								1
Other Conditions:						100		
			and or	35743300				
Quarters, washplaces, ga	meys, mes	ssrooms,	storeroon	ns and a	lleyways			7227
quired cleansing Water closet compartme	nte requi	and aleas					52	27
Quarters, washplaces, ga	llevs me	et cleans	storeross	no and a			32	29
quired painting	neys, mes	sarooms,	storeroor	us and a	neyways	re-	21	
V.C. compartments requ	ired pain	ting		**			31	2
Passenger accommodation	n require	d paintin	or ·		**		2	
Passenger accommodation Jrinal stalls required cle	ansing	a pamen	8	**			1	
Refuse on deck (removed	1)		100		**		1	-
cuppers required cleans	ing		100				32	10
anks required cleansing	(attended	to during	refit)			100	0.00	19
Bilges required cleansing	(attende	d to duri	ng refit)				30 27	*
will bins provided				**			1	4
Dock-side nuisance (soil	discharge	from shir	ps)				12	2
Jarmine Burn manula	ockroache	es, beetles	s, ants, et	tc.		11	30	4 23
erinin, bugs, weevils, c							WW .	20
Vermin; Bugs, weevils, c							340	135

# VII. Food Inspection:

(1) Action taken under the Public Health (Imported Food) Regulations 1937-1948, the Public Health (Imported Milk) Regulations 1926, and the Public Health (Preservatives, etc., in Food) Regulations 1927-1953.

During the year all sheds and warehouses where food is landed or stored were inspected regularly for the detection of unsound food.

	De	scription					Tons	Cwts.	Qrs.	Lbs
Apricot Pulp	1.			2000						
Apple Concentrate			10 gal	lone	0.0	2.5	-	11	3	14
Beef Dripping				ions	* *		-	-		-
Channe				3.4			-	-	-	24
Cherries in Water		**						_	1	26
Cherries in Water							-		3	26
Chocolate Mallow Cre	ams								_	16
Cling Peaches										
Cornflakes						**	_	_		13
Fillets of Cod and Ha	ddock			***		**	500	-	-	12
Fruit Salad								4	2	-
Grape Fruit Juice			ion m				-	-	1	12
Stape Fruit Juice			108 F1	uid Oun	ces			_	_	
Green Grapes							-	-	_	20
Margarine				200		0.0	1978	200	200	14
Peaches in Syrup								5	3	
Pears in Syrup						33.5				26
Sultanas						***	-	15	2	17
Coasties (Biscuits)					2(2)	62.5	1	13	0	21
constites (Discuits)	**	19.85		* *			-	-		22

The following informal samples taken under the above Acts were submitted to the Public Analyst for chemical analysis:—

Asparagus soup 1; Baked Beans 1; Beef and Liver Soup 1; Barley 1; Brown Sugar 1; Cheese Spread 1; Cream 1; Creamed Pudding 1; English Mustard; Grapefruit Sections 1; Ground Almonds 1; Gingerbread Mix 1; Instant Coffee 1; Jelly Mixture 1; Lentils 1; Mixed Dried Fruit 1; Pickled Red Cabbage 1; Processed Peas 1; Salmon Spread 1; Tapioca 1; Vegetable Salad 1; Vegetable Soup 1; Whole Rice 1; Yeastless Rusk 1.

No milk was imported.

(2) Shellfish:—Information respecting any shellfish beds or layings within the jurisdiction of the Port Sanitary Authority, stating whether they are, in the opinion of the Port Medical Officer, liable to pollution:—

There are no layings of shellfish within the jurisdiction of the Port Sanitary Authority.

Report of any action under the Public Health (Shellfish) N.I. Regulations 1936 or the Sale of Food and Drugs Acts, 1875 to 1954:—

Under the Belfast Corporation Act, 1930 it is an offence to gather any shellfish within the jurisdiction of the Port Area. Posters are exhibited in the vicinity of the Port area during the summer months, warning the public against the gathering of shellfish.

# Smoke observations of ships' funnels

Number of observations made during the year—80 (each of 30 minutes' duration). Number observed discharging black smoke over 2 minutes in a continuous period of 30 minutes—2. Number of Statutory Notices seerved—2. Verbal notice was given to 16 masters, chief engineers and ships' managers regarding the volume of dark brown smoke being emitted.

Routine and other inspections not included in main report:-

986 Visits to cross-channel (passenger) ships.

328 re-inspections regarding defects, etc.

109 inspections regarding deratting and deratting exemption certificates.

# FACTORIES

The Factories Act (Northern Ireland), 1938, is the legislation to ensure as far as practicable that the conditions under which workers are employed in factories are reasonably healthy and safe. The term factory is defined by the Act and covers all manufacturing establishments and a wide field of workplaces where persons are employed by way of trade or for the purposes of gain and includes, under certain conditions, warehouses, which normally are regarded as outside the scope of the term factory.

The district council within its own boundary is responsible for the administration of Section 7 with respect to sanitary arrangements in all types of factories; Sections 1 to 6 in non-power factories with respect to cleanliness, overcrowding, temperature, ventilation and the drainage of floors in work-rooms; Section 35 with respect to means of escape in the case of fire; Section 44 with respect to the approval of drinking water; Sections 55 and 56 which cover, under certain circumstances, the issue or withdrawal of Certificates of Suitability for basement bakehouses and the special conditions for sanitary and unsanitary bakehouses; Sections 111 and 112 with respect to sanitary arrangements in works of building or engineering construction and Sections 114 to 117 with respect to the conditions under which "outwork" is carried on. The Factories Act (N.I.), 1949, extends the powers, amends certain sections and makes additional provisions to the principal Act of 1938.

A new enactment concerned with Factories has just been introduced in Northern Ireland, cited as the Factories Act (Northern Ireland), 1959, and this, together with the 1949 and 1938 Acts, will be known in the future as the Factories Acts (Northern Ireland), 1938 to 1959. This new Act amends the Factories Acts (Northern Ireland), 1938 and 1949, making further provision for the health, safety and welfare of persons employed in factories or in premises or operations to which those Acts apply, and for the application to certain premises of the enactments relating to Mines and the Quarries Act (Northern Ireland) 1927. The new Act is dated the 8th December, 1959 and, apart from Section 23 relating to the employment in factories of young persons, will not come into operation until such day as the Minister of Labour and National Insurance may order.

The following tables give details of the work carried out during the year 1959 in connection with the Factories Acts (Northern Ireland), 1938 and 1949.

# Inspections for Health Provisions of the Factories Acts

# TABLE B 30

PREMISES	Inspections	Notices Issued	Occupiers Prosecuted
Factories with mechanical power Factories without mechanical power Other premises under the Act (including works of building and engineering construction, but not including outworkers' premises)	3,060 158 662	82 8 14	3 - 2
TOTALS	3,880	104	5

<sup>\*</sup>Electrical stations reckoned as factories.

# CONDITIONS FOUND

#### TABLE B 31

PARTICULARS	Instances	Remedied	Referred to Chief Factory Inspector	Prosecutions Instituted	Outstanding at end of year
Want of Cleanliness (S.1) Overcrowding (S.2) Unreasonable temperature (S.3)	5 —	6	2	=	=
Inadequate ventilation (S.4) Ineffective drainage of floors (S.6)	9	7	2 2	=	3
Sanitary Conveniences (S.7): Insufficient Unsuitable or Defective	35 393	33	_	1	3
Other Offences (excluding offences relating	3	399 3	-	4	48 2
to Homework which are reported in Table B 33) Breaches of special sanitary requirements	61	15	46	_	6
for bakehouses (S.56 to S.59)	2	2	-	-	
TOTALS	508	466*	52	5	62

<sup>\*</sup> Defects remedied include outstanding defects from previous year

In addition to the work outlined in the above tables, surveys are made of the office accommodation attached to factories (which is outside the provisions of the Factories Acts (Northern Ireland) 1938) and these are included in the tables under the heading "Non Industrial Premises".

Nuisances of a public health nature discovered during the inspections of factories were dealt with under the provisions of the Public Health (Ireland) Acts, 1878 to 1946, and the Belfast Corporation Acts, 1845 to 1956, details of which are as follows:—

# Inspection of Factories and Workplaces under Public Health (Ireland) Acts 1878 to 1946 and Belfast Corporation Acts 1845 to 1956

Nuisances discovered	2					95
Statutory Notices issued						43
Nuisances abated						56
Dangerous structures, risk of	fire, etc.	, reported	to City	Surveyor	for action	12
Special Surveys and reports	to City S	urveyor u	nder Pla	nning Act	s	88
Plans examined concerning n	ew works	s and alter	rations			117

# FACTORY OUTWORKERS (HOMEWORK)

The Local Authority under part 8 of the Factories Act (Northern Ireland) 1938 (Sections 114 to 117) is responsible for enforcement of the provisions with respect to "homework". Factories who manufacture handkerchiefs, bed linens, table linens, etc. often send such articles to the homes of former employees or other experienced persons for finishing, hemstitching, smoothing, altering and repair and it is necessary from a public health point of view that such work is carried on in homes free from infectious disease and in reasonably hygienic conditions, consequently it is necessary to make periodical visits to these houses and to examine the daily returns of infectious diseases.

It is obligatory under this part of the Act for the owners or occupiers of factories to send, to the local authority of their area in the months of February and August of each year, a list showing the name, address and class of work carried on by outworkers employed by them from these lists the local authority compiles the statutory register. It is also obligatory on the local authority who receive lists of outworkers who reside outside their area to notify the local authority within whose area the outwork is carried on.

When a case of infectious disease occurs in an outworkers' premises, or when outwork is being carried on in unwholesome premises, the local authority is required to send a notice to the owner or occupier of the factory employing such outworker, prohibiting the sending of further outwork until the house or part thereof liable to be infected is disinfected to the satisfaction of the Medical Officer of Health, or other reasonable precautions have been adopted. The notice also prohibits the removal of any outwork from the house in which a case of infectious disease has occurred until it has been disinfected by an officer of the Health Department.

# INSPECTION OF OUTWORKERS' PREMISES

#### TABLE B 32

		Tuescations		olesome prer Section 115)	nises	Infected premises (Sections 116/117)			
	Nature of Work	Inspections	Instances	Statutory Notices Served	Prose- cutions	Instances	Orders made	Prosecutions (Sections 116/117)	
a fi	faking, cleaning, washing, ltering, ornamenting, inishing and repairing of vearing apparel faking-up, ornamenting, inishing and repairing of able linen, or other house-old linen (including in the	41	1	1	-	1	1	-	
C	erm "linen" articles of otton and linen mixtures)	499	3	3	-	7	7	-	
3. T	extile weaving and any rocess incidental thereto	_		_	_	_	_	-	
	others	-	-	-	-	-	-		
Water St.	TOTALS	540	4	4	_	8	8	-	

Outworkers' premises within the City, notified	 653		
Notices sent to factories employing outworkers		 	 94
Notices for failing to keep or send list of outwo	rkers	 	 6
Outworkers' returns received		 	 958
Outworkers notified from other districts		 	 6
Outworkers notified to districts outside City		 	 308

# BAKEHOUSES

The Factories Acts make bakehouses subject to the provisions for factories generally and, whilst there are special provisions relating to bakehouses which enable control of insanitary and "basement" bakehouses, the provisions generally are concerned with the protection of the health of employees. The protection of the public in regard to soundness of foodstuffs or materials used and hygienic practices employed in bakehouses is obtained from the Public Health (Prevention of Contamination of Food) (N.I.) Regulations, 1948. Table B 33 gives particulars of conditions found in bakehouses and action taken by the Department.

Bakehouses on register at 1st	January	, 1959		 230
Inspections during the year			 	 970

# Conditions discovered during year.

# TABLE B 33

Nature of Defects		Instances	Notices Served	Remedied	Out- standing
Want of cleanliness in food rooms		22	5	20	2
Cleanliness of persons handling foodstuffs not observed		6		6	_
Unreasonable temperature (or ventilation inadequate or no	t being	10000			
maintained)		15	9	16	3
Inadequate provisions for rendering fumes, etc., harmless		4	3	2	4
Inadequate provisions for drainage of floors	1.4	-		-	2
Drain inlets within food rooms		7	3	6	2
Sanitary conveniences communicating directly with food ro	oms	1	1	1	_
Ceilings, walls, floors, doors, etc., in disrepair		27	17	58	10
Ceilings, walls, floors, doors, windows, etc., requiring cleans	ing	17	6	14	3
Preparation or cooking rooms structurally defective		18	11	30	9
Suitable and sufficient washing facilities not provided	2.0	6	3	7	4
Suitable cloakroom accommodation not provided		4	4	3	1
Cleanliness of utensils, machinery, benches, etc., not observ	ed	5	3	5	
Suitable and sufficient lighting not provided or not maintain		-	-	1	-
Preparation rooms overcrowded		4	2	4	-
Other defects		16	7	14	5
TOTALS		152	74	187*	43

<sup>\*</sup> Defects remedied include outstanding defects from the previous year.

During the year it was found necessary in sixteen instances to institute legal proceedings against occupiers and owners of bakehouses for breaches of the Public Health (Prevention of Contamination of Food) Regulations (Northern Ireland), 1948, and the Public Health (Ireland) Acts, 1878 to 1946, as follows:—

- (a) Failing to observe due cleanliness of the rooms, benches, tables and machinery where food was prepared and stored for the purpose of sale for human consumption.
- (b) Having sold food containing foreign matter which rendered the food unsound, unwholesome and unfit for the food of man.
- (c) Failing to keep in a proper state of repair the ceilings, walls and floors of the rooms in which food was prepared or stored.
- (d) Failing to provide and maintain in proper order suitable and sufficient washing facilities.
- (e) It was also found necessary in one case to institute legal proceedings against an employee of a bakehouse for failing to take all reasonable precautions to prevent contamination of foodstuffs under his control.

# INSANITARY BAKEHOUSES

During the year five bakehouses were found to be in such a defective condition structurally as to render them unfit for the preparation of food under the provisions of the Public Health (Prevention of Contamination of Food) Regulations (Northern Ireland) 1948 and on representation by the Department the premises ceased to be used for that purpose. In two instances the volume of business carried on had increased to such an extent as to result in overcrowded conditions in food preparation rooms consequently proper hygiene could not be controlled; the firms concerned moved to larger and more up-to-date premises. 9 new bakeries were established during the year under the supervision of Sanitary Officers and four new bakehouses were in course of construction or modernization at the end of the year.

# BREAD DELIVERY VEHICLES

The inspection of bread delivery vehicles and food containers for cleanliness and defective conditions likely to cause breaches of the Public Health (Prevention of Contamination of Food) Regulations (Northern Ireland) 1948, continued during the year and a reasonably good standard continues to exist. The older type of bread delivery vehicles, with no proper inside lining and with ledges and metal straps capable of retaining dirt and dust which are very difficult to cleanse properly, are disappearing and newer vehicles, lined with plastics and other suitable hard smooth surfaces easily maintained and kept clean and less likely to become defective, are taking their places. In the case of the older vehicles representations have been made to managements, resulting, in addition to the regular cleansing and washing, periodical re-painting of the inside of the vehicles with hard gloss paint. Many firms are co-operating. One of the large bakery concerns in the City has fitted out sixteen of their bread delivery vehicles which are used on long journeys with reasonably good washing facilities. These washing facilities include a small plastic wash-hand basin, towels and soap and supplied with hot water from insulated hot water containers fitted inside the vehicles. The firm hopes to extend these washing facilities to other vehicles and are to be commended for their efforts to promote good hygienic practice among their employees.

It was found necessary in three cases to issue warnings to bakery managements to give more care to the cleansing of the inside of their bread delivery vehicles and action had to be taken against one bakery for delivering pastry in a private car without due care being taken to prevent possible contamination.

# **Bread Shops**

Bread shops on register at 1st	January,	1959	 	 254
Inspections during the year			 	 595

#### Conditions discovered during the year:

#### TABLE B 34

Nature of Defects	Instances	Notices Served	Remedied	Out- standing
Want of cleanliness in food rooms	5	3	5	1
Want of cleanliness of persons handling foodstuffs	2	1	2	-
Unreasonable temperature (ventilation inadequate or not being maintained)	6	4	4	2
Drain inlets within food rooms	1	1	3	-
Sanitary conveniences communicating directly with food rooms	3	3	5	-
Ceilings, walls, floors, windows, doors, etc., in disrepair	7	4	3	4
Ceilings, walls, floors, windows, doors, etc., required cleansing	7	3	7	-
Suitable and sufficient washing facilities not provided Cleanliness of utensils, benches, food containers, etc., not ob-	3	3	4	1
served	_	-	2	-
Suitable and sufficient lighting not provided or maintained	-	-	1	-
Other defects	47	45	43	6
Totals	81	67	79*	13

<sup>\*</sup> Defects remedied include outstanding defects from the previous year.

It was found necessary in one instance to institute legal proceedings against the occupier of a breadshop for failing to provide adequate washing facilities under the Public Health (Prevention of Contamination of Food) Regulations (Northern Ireland), 1948.

# THE BETTING AND LOTTERIES ACT (NORTHERN IRELAND), 1957

As reported last year, the coming into operation in March, 1958, of the Betting and Lotteries Act (Northern Ireland), 1957, had the effect of securing many improvements of a public health nature in bookmakers' establishments. "Notices of intention" are served on the Police and local authority in whose area the premises are situated, that an application has been made to the Courts for a certificate of suitability, after which the premises are inspected by Sanitary Officers and reports are made to the Health Committee on the conditions found. The Committee may authorise the issue of notices by the Town Solicitor of the Corporation's intention to object to the application and setting out the reasons for their action. At the subsequent hearing of the applications evidence is heard from the Police and local authority inspectors before a decision is made by the Court.

The chief objections raised by the Health Department to the granting of certificates of suitability are concerned with overcrowded conditions, insufficient natural lighting and ventilation, structural defects or alterations, damp conditions, sanitary accommodation, etc. The Courts upheld all these objections except for the provision of sanitary accommodation for patrons and in every case refused to grant a certificate until the work specified by the Department was carried out or until the applicant gave the Court an undertaking that the premises would be put in order.

There are approximately 28 bookmakers' offices operating in the City whose owners or occupiers did not comply with the provisions laid down in the Betting and Lotteries Act (Northern Ireland), 1957, with respect to the date when the business was established and whose applications for certificates of suitability have been adjourned pending appeals to the Higher Courts as to the validity of the Act, with the result that the owners or occupiers of such premises, until a decision is given, are unwilling to effect improvements of a public health nature where structural or other alterations are necessary and where the business may or may not be prohibited by the Act.

Quite a few of these premises are unsuitable and cannot be made suitable unless re-building takes place or because of restricted space available, while the larger number of the premises require structural alterations to a greater or lesser extent. As these premises are held to be illegal under the Act until a decision is given by the Higher Courts, no action can be taken by the Health Department.

The following summary concerning bookmakers' offices in the City in connection with the Betting and Lotteries Act (Northern Ireland), 1957, does not include inspections by Sanitary Officers or particulars of any improvements carried out in such premises as the result of action taken under the Public Health Acts and Local Acts as these are included in the section under the heading of "Non Industrial Premises".

1.	Number of Bookmaking Offices operating in the City	138
2.	Number of applications made to the Courts with respect to premisfor certificates of suitability	ses
3.	Number of applications adjourned from last year and still pendidecision of the Courts	ing 30
4.	Number of certificates of suitability granted	100
5.	Number of certificates of suitability refused	8
6.	Number of intimation notices sent of intention to object to t grant of certificates on public health grounds	he 114
7.	Number of undertakings given to the Courts that the premis would be altered to comply with public health requirements	ses 21
8.	Number of appeals pending the Recorder's decision against a fusals from the lower Court	
9.	Number of bookmakers' offices closed as the result of inability comply with public health requirements	

# NON-INDUSTRIAL PREMISES

Office buildings inspected	 					1,003
Office suites inspected			No. of Concession, Name of Street, or other Persons, Name of Street, or other Persons, Name of Street, Name of			1,000
	 	111				1,425
Inspections during the year	 1000		20,000			1,265
			4.50	1000	10000	1,200

		Instances	Remedied	Out- standing					
Offices overcrowded							32	30	12
Offices inadequately ventilat	ed						56	104	20
Offices inadequately lighted							39	34	24
Offices inadequately heated							10	11	1
Offices dirty							5	7	2
Stairways and passages dirty	y					-	6	20	1
Offices, etc., requiring re-dec							10	10	2
Offices not free from noxious							1	1	_
Offices in a damp state							7	12	3
Offices in a defective conditi	on						25	38	10
Unsuitable provision for tak	ing of me	eals					2	4	-
Unsuitable or no drinking w							5	5	6
Unsuitable or no washing fa							- 11	20	6
Other Defects							29	46	20
Sanitary accom	modation	-							
nsufficient							7	8	9
Not separate for the sexes							3	4	-
Dirty state						100	10	20	1
No intervening ventilated sp	aces, scr	eening.	etc.				4	21	3
Defective conditions, etc.	-						20	38	10
Unsuitable urinals							36	99	10
Separate means of approach							1	-	1
TOTALS	1000	1000	4700	1		229	319	532*	141

<sup>\*</sup> Defects remedied include outstanding defects from the previous year.

# Medicines, Pharmacy and Poisons Acts (Northern Ireland), 1925 to 1955

The inspection of shops and traders engaged in the sale of poisons included in part 2 of the Poisons Schedule of the Medicines, Pharmacy and Poisons Acts (Northern Ireland), 1925 to 1955, continued during the year. The confusion encountered early in 1958 on the introduction of the new regulations has been smoothed out and traders are much more conversant with their responsibilities under the Acts and Regulations. The types of household goods covered by the Part II Schedule of the Act include household ammonia, sheep dips, hair dyes, paint removers, horticultural sprays, insecticides, preparations for household fumigation, carbolic disinfectants, sanitary fluids, etc., with the result that a large percentage of traders are covered.

Under the Act the local authority is obliged to keep and maintain a register of all persons engaged in the sale of Part II poisons and each year (at least 21 days before the expiry of the date of registration) a notice is sent out informing the person concerned of the expiration of the old registration together with an application for renewal and particulars of the fees involved, etc. The premises are then inspected to ascertain if the provisions of the Poisons Acts and Regulations are being complied with and a written report is made to the Health Committee who authorise the registration or otherwise.

The following summary gives particulars of the work carried out:-

Inspections			 	447
Applications for registration received			 	403
Reports to Health Committee			 	405
Premises registered			 	402
Refusal of registration on grounds of u	nsuitab	ility	 	1
Contraventions of the regulations disco			 	12

During the year it was found necessary in one instance to report, to the Inspector appointed by the Ministry of Home Affairs, a trader who was using easily recognised and accepted food containers for re-filling with poisons included in the Poisons Schedule and offering these for sale to the public. The Inspector took immediate action to have the practice stopped.

There were 28 persons' names removed from the Register during the year, as 20 traders had ceased keeping poisons for sale to the public, two premises had closed down and one had changed ownership.

# RAG FLOCK ACT 1911

The visiting of premises in the City where rag flock is stored or sold or in possession for the purpose of making up upholstery goods, the stuffing of furniture, cushions, bedding, etc., continued during the year. In addition to the inspection of the premises for cleanliness, heating, ventilation, etc., under the Factories Acts and for nuisances under the Public Health Acts, samples of the rag flock found on the premises are taken under the Rag Flock Act, 1911, and the Rag Flock Regulations, 1912, for the purpose of determining if the rag flock is in compliance with the prescribed standard of cleanliness, which is that the amount of soluble chlorine (in the form of chlorides removed by the thorough washing of the flock with distilled water at a temperature not exceeding 25 degrees centigrade from not less than 40 grammes of well mixed flock) shall not exceed 30 parts of chlorine in 100,000 parts of flock.

The standard of cleanliness from the returns of the analysis of the samples taken shows a decided improvement over the last few years, indicating the results of the improved methods of washing of the raw materials before the manufacture into flock.

The following is a summary of the work carried on during the year in connection with the above Act and the Regulations made thereunder:—

Premises on register	where r	ag flock i	s used				
Inspections of premis	ses						
Samples of rag flock	submitt	ed to Pu	blic Analy	yst			
Samples certified as relations, 1912	ot bein	g in com	pliance wi	th the R	ag Flock	Regu-	1
Cautionary letters ser	nt						1
Prosecutions institute	ed						

# SHOPS ACT (NORTHERN IRELAND), 1946

The Shops Act (Northern Ireland) 1946 is divided into three parts: the first part deals with the closing hours of shops, the second part with the hours of employment and the health and welfare of employees and the third part with miscellaneous matters, general duties of local authorities, definitions, offences and penalties. While it is the duty of a local authority to administer all the provisions contained in the Shops Act within its own boundaries, it is only with the second part of the Act, particularly with the health and welfare section and those sections of the miscellaneous part dealing with administration, that the Health Department is concerned, as the closing hours of shops and the hours of employment are the responsibility of the Police Department of the Corporation.

The requirements of the welfare sections of the Shops Act are in the main somewhat similar to the provisions of the Factories Act (Northern Ireland) 1938, in that they were designed to safeguard and protect the health and promote the general well being of the persons employed. The provisions of the Shops Acts include that suitable and sufficient ventilation, heating facilities, lighting, washing facilities and sanitary accommodation shall be provided and maintained. It also requires, where employees take meals on the premises, that suitable facilities shall be provided, but omits some very important provisions contained in the Factories Acts, such as the cleanliness and overcrowding provisions. The Shops Act also lacks the definitions and standards prescribed by Regulations under the Factories Acts. Each local authority is left to determine what would be a reasonable standard for "suitable and sufficient", with the result that varying standards are enforced and this causes confusion among traders, particularly the managements of multiple stores, who have shops in different areas under different local authorities. It is appreciated from a practical point of view that the fixing of specific standards with regard to some of the provisions would be difficult and in some cases impossible: what would be considered a reasonable degree of heat or adequate means of ventilation in say a hardware shop would be out of place and not meet the needs of a fish or butcher's shop, but, on the other hand, the lack of a standard on the provision of sanitary accommodation and washing facilities has resulted in different standards being enforced in various parts of Northern Ireland. Again, under the Shops Act, powers are given to local authorities to grant "Exemption Certificates" from the provision of sanitary accommodation and washing facilities where in the opinion of the local authority special conditions prevail in the shop concerned and this too has led to confusion by the different interpretations and different standards being operated.

Apart from food shops, which are covered by the Food Regulations, there is no direct provision for the keeping of non-food shops in a cleanly state and the requirements of the Factories Act relating to workrooms would, with modifications, be a welcome addition to the Shops Act. There is also the question of the provision of first aid boxes in shops as required in factories. Admittedly, the danger

of accidents in shops in not so great as in factories, but accidents do occcur, particularly cuts of minor and major natures and, as first aid boxes are inexpensive, every trader should consider it his duty to provide a readily accessible cabinet or special drawer containing a suitable first aid kit and in the large stores employing over fifty of a staff a person with some first aid training should be put in charge of the first aid cabinet.

The following are details of the work carried out during the year in connection with the administration of the Shops Act (Northern Ireland) 1946:—

Number of shops on the regist	er					6,667
Complete surveys made during	the year	ar				1,015
Inspections during the year						2,630
Contraventions discovered						200
Statutory notices served				\		112
Exemption certificates issued	since 1	946 with	respect	to alter	native	-
sanitary accommodation						27
Exemption certificates issued si	nce 194	6 with res	spect to w	ashing fa	cilities	17
Summonses issued during the	year					2
Number of applications for exe	mption	refused b	y the Hea	alth Com	mittee	
with respect to sanitary acco	mmoda	tion or wa	ashing fac	ilities		2

# Conditions Found:

# TABLE B 36

Nature of con-		Instances	Remedied	Out- standing			
Suitable and sufficient ventilation not pro-	vided				3	4	3
Suitable and sufficient ventilation not mai	ntained				4	6	2 3
Efficient means for securing a reasonable t	temperati	are not pr	ovided	-	7	5	3
					2	2	-
Suitable and sufficient means of lighting no					1	1	-
Insufficient and unsuitable washing facility					32	20	17
Unsuitable facilities for the taking of meal						-	-
Sanitary Accommodation—							
Insufficient					9	6	3
Not provided separately for sexes					3	8	1
Ventilation inadequate					9	8	3
Lighting inadequate					3	4	3
Floors, walls, basins, seats, cisterns, etc., o	defective	or dirty		100	128	109	36
Screening, doors, fasteners, etc., defective					2	6	2
					7	6	3
Absence of an intervening ventilated space					q	2	2
Separate means of approach not provided		**	1.0	**	3		
TOTALS					213	187*	78

<sup>\*</sup> Defects remedied include outstanding defects from the previous year.

# Inspection of shops under the Public Health (Ireland) Acts, 1878 to 1946

Public health nuisances dis	scover	ed duri	ing the	year	 	 82
Statutory Notices served					 	 45
Nuisances abated					 	 58
Notices outstanding at 31s	t Dec	ember,	1959		 	 14

# FOOD AND DRUGS

Report on the administration of the Food and Drugs Acts in relation to sampling to check the nature, substance and quality of food sold within the City:—

The Sale of Food and Drugs Acts impose a duty on local authorities to sample food for chemical analysis as to its nature, substance and quality. The Food and Drugs Inspectors, being authorised officers under the Acts, purchase samples of food of as wide a variety as possible in order to make a comprehensive check on all food sold in the City.

During the year ended 31st December, 1959, the Inspectors purchased 1,406 samples; 24 of these samples were reported by the Public Analyst as not being genuine and not of the nature, substance and quality demanded by the purchaser. This gives a percentage adulteration figure of 1.71 and can be regarded as highly satisfactory and indicative of a high standard of quality of food sold in the City. Of the 24 adulterations found, 19 were what can be conveniently described as "butchers' products" i.e. sausages, sausage meat, minced beef and steak. These adulterations were due to the excessive use of preservatives where permitted, and the addition of preservatives to food where it was prohibited. In 17 convictions in the Courts for the misuse of preservatives fines amounting to £60 were imposed. Thus another chapter in the story of preservatives has been enacted and as in previous years the excuses and explanations offered to the Courts are many and varied. The Food Inspectors advise butchers to exercise care in the use of preservatives where it is permitted and also point out the folly of using it in meat when it is prohibited. It is obvious that the advice given goes unheeded in certain instances. There were few other adulterations. One was of buttermilk which had a very high water content, two of jams deficient in solids, and a sample of bread and butter which was certified to be bread and margarine.

In the latter part of the year, resulting from a chemical analysis of a nationally sold meat product, it was found necessary to take issue with the manufacturers on the labelling of the product as compared with the contents in the tin. This matter was at the end of the year still the subject of correspondence between the Department and the Medical Officer of Health of the City in England where the manufacturer's premises are situated.

The following table shows the number of the samples procured and examined in the past five years, and the percentage of adulterated samples:—

### TABLE B 37

Year	Number taken			Nun	aber adultera	ted	Percentage adulterated		
1 Cal	Formal	Informal	Total	Formal	Informal	Total	Formal	Informal	Total
1955	1,410	9	1,419	24	1	25	1.70	11.11	1.76
1956	1,400	3	1,403	53	2	54	3.79	33.33	3.85
1957	1,398	9	1,407	52	7	54	3.72	22.22	3.84
1958	1,376	10	1,386	28	2	35	2.03	70.00	2.53
1959	1,401	5	1,406	23	1	24	1.64	20.00	1.71

# Description of samples of Food and Drugs analysed.

### TABLE B 38

A	rticle			Number Analysed	Article	Number Analysed	
Almonds, Ground				4	Coconut, desiccated		4
Angelica				1	Coffee		2
Aspirin				1	Coffee, Chicory and Sugar		ī
Balsam, Cough				2	Complan		1
Barley				10	Condiment, non-brewed		26
Beef, Corned				2	Confectionery		1
Beef, Minced				50	Cornflour		11
Beer				3	Cream		10
Bemax				1	Cream of Tartar		
Brandy				3	Cream Whinning		3
				12	Crystals, Foam	**	2
Breadcrumbs, Gold	den		4.0	1	Crystale Lamon		2
Browning				4	Crystals, Lemon Crystals, Monosodium Glutar		1
Butter				32	Cwaretole Character	mate	1
Butter, Peanut				2	Curd Panana		1
Buttermilk				21	Curd, Lemon		1
Cakes, Fish				3	Curd, Orange		9
Cascara				1	0 1		1
Cereals				î	Drink, Orange		1
Cheese				î	The state of the s		3
Cheese, Lemon				Â	Dripping		3
Cherries, Glace				1	Ducks, Savoury		2
Chocolate, Drinkin	g			7	Essence, Coffee and Chicory		12
Chutney				6	Essence, Ginger Wine		1
innamon				3			3
Cloves				2	Farola		10
Cockles				2	Fat, Cooking		13
Cocoa				8	Figs, Syrup of		6
	1000	1000		0 11	Flour		4

Article	Number Analysed	Article	Number Analysed
Flour, Self Raising	8	Pepper	11
Food, Malted	1	Piccalilli	3
Fruit	2	Pickles	4
Fruit, Dried	22	Pie, Steak and Kidney	2
Gelatine	1	Pork Steak and Onion	1
Gin	i	Powder, Baking	6
Ginger	5	Powder, Boracic	1
Glucose	2	Powder, Curry	5
Glycerine	1	Powder, Custard	7
Glycerine, Lemon and Honey	3	Powder, Dessert	1
Herbs, Mixed	1	Powder, Seidlitz	1
Honey	5	Protein, Hydrolised	1
Horseradish Relish	1	Prunes	2
Ice-Cream	74	Pudding, Black	4
Ice-Cream and Fruit Juice	1	Quinine, Tincture of	2
Iam	17	Rice	7
Jelly, Table	16	Rolls, Meat and Onion	2
Juice, Fruit	8	Roll, Pork with Stuffing	1
Ketchup, Tomato	3	Sage, Dried	2
Lard	12	Salad Cream	11
Lentils	4	Salts, Fruit Salts, Health	1
Linctus, Cough	1	Salts, Health	2
Lollipops	19	Sal Volatile	2
Lucozade	1	Sauce	16
Macaroni	3	Sausages and Sausage Meat	214
Magnesia, Carbonate of	4	Sausage, Liver	3
Magnesia, Hydroxide	1	Seeds, Carraway	1
Magnesia, Tablets of	1	Semolina	4
Mallows, Coconut	1	Soda, Bicarbonate of	17
Margarine	27	Scft Drinks	39
Marmalade	7	Soup, Cream of Mushroom	2 8
Marzipan	1	Spice, Mixed	0
Mayonnaise	3	Spread, Chocolate	1
Meat, Luncheon	9	Spread, Orange	5
Milk, Evaporated	3	Spread, Sandwich	57
Mincemeat, Sweet	7	Steak, Minced	1
Mix, Cake	2	Steak, Stewed	3
Mixture, Cough	2	Stuffing, Sage and Onion	13
Mix, Pastry	2	Suet, Shredded	2
Mix, Soda Bread	2	Sugar, Demerara	1
Mix, Soup	28	Sugar, Icing	159
Mustard	13	Sweetmilk	1
Nutmegs, Ground	2	Syrup, Blackcurrant	1
Oats, Porage	1	Syrup, Glucose	2
Oil, Almond	2	Syrup, Maple	1
Oil, Castor	2	Syrup of Irish Moss	2
Oil, Cooking	1	Syrup, Rose Hip	1
Oil, Eucalyptus	10	Tapioca	5
Oil, Olive	10	Tea	17
Ointment, Boric acid	1	Thyme, Dried	1
Ointment, Zinc	1	Vinegar	23
Onions, Pickled	1	Whip, Instant	1
Oxo	6	Whiskey	11
Paraffin, Liquid	2	Wine	6
Paste, Fish	9	Yeast	1
Paste, Meat	4	Yorkshire Relish	4
Pastry, Cream	1		
Peas	1	Total	1,406
Pectin, Fruit	9		a comment
Peel, Mixed	-		THE ROTTING

# TABLE B 39

Nature of S	Sample		Total No. of Samples Taken	Adulterations	Prosecutions	Convictions	Fines
Buttermilk Jam Minced Beef Minced Steak Sausages and Sausag	ge Meat	 	12 21 17 50 57 214 28	1 1 2 2 4 13 1	1 2 2 4 11	1 2 2 4 11	$\begin{array}{ccccc} & - & & - & \\ & 1 & 0 & 0 & \\ & 1 & 0 & 0 & \\ & 17 & 0 & 0 & \\ & 11 & 0 & 0 & \\ & 142 & 0 & 0 & \\ & & - & & \end{array}$

Cases of adulteration in which no legal proceedings were instituted, but the owner was cautioned.

Bread and Butter 1; Sausage Meat 2; Soup Mix 1

# Particulars of samples specially reported by the Public Analyst during the year:-

Apple Jelly. One sample of apple jelly was deficient in soluble solids. The soluble solid content was 56 per cent against the required minimum of  $68\frac{1}{2}$  per cent.

Beef Sausages. Three samples of beef sausages contained respectively 730, 980 and 1,300 parts per million of sulphur dioxide as a preservative while two samples which were not declared contained respectively 380 and 410 parts per million. Beef sausages may contain 450 parts per million of sulphur dioxide when declared in accordance with the Public Health (Preservatives, etc., in Food) Regulations (Northern Ireland) 1927.

Bread and Butter. The butter on a sample of bread and butter consisted of margarine and not butter.

Buttermilk. One sample contained added water in excess of the accepted maximum.

Canned Minced Beef and Onions. Exception was taken to the description accorded to one sample.

Ice-Cream. Two samples were slightly low in fat content and were reported as of inferior composition.

Minced Beef. Two samples of minced beef contained respectively 60 and 260 parts per million of sulphur dioxide. Minced beef, according to the Public Health (Preservatives, etc., in Food) Regulations (Northern Ireland) 1927 must not contain preservatives.

Minced Steak. Four samples of minced steak contained respectively 180, 220, 640 and 1,200 parts per million of sulphur dioxide as a preservative. Minced Steak must be entirely free from preservatives (Public Health (Preservatives, etc., in Food) Regulations (Northern Ireland) 1927).

Rhubarb and Ginger Jam. One sample of rhubarb and ginger jam was deficient in soluble solids. The soluble solid content was 63 per cent against the required minimum of 68½ per cent.

Sausage Meat. Five samples of sausage meat contained respectively 560, 580, 590, 920 and 940 parts per million and one sample which was not declared contained 100 parts per million of sulphur dioxide as a preservative. Sausage meat may contain a maxium of 450 parts per million of sulphur dioxide, when declared (Public Health (Preservatives, etc., in Food) Regulations (Northern Ireland) 1927). Two samples of sausage meat each contained 96 per cent of meat and 70 and 150 parts per million of sulphur dioxide as preservative, both samples contained abnormally high meat content and were not, therefore, genuine samples of sausage meat.

**Soup Mix.** One sample contained dead acari or meal mites and was marked inferior. One sample contained live acari or meal mites and was reported as unfit for human consumption.

# MILK CONTROL

Control is exercised by weekly sampling for chemical analysis and pacteriological and biological examinations. The premises in the City in which milk is produced, processed, distributed or sold and the vehicles used for transporting the milk are subjected to frequent inspections. Thus a high

degree of control is exercised and maintained over the milk sold within the City. Such control is necessary because of the food value of milk and its potentiality as a medium for the growth and development of bacteria.

Licensed Producers of milk				6
Cows on licensed producers premises (average)				163
Dairies where milk is pasteurised				4
Gallons of milk pasteurised per day (approx.)			4	4,290
Wholesale distributors of milk				27
Retail distributors of pasteurised milk				1,183
Retail distributors of grade A (T.T.) milk				32
Inspections of dairies, cowsheds and milkshops				890
Samples of sweet milk taken under Sale of Food	d and D	rugs Acts		159

# Particulars of Sweetmilk Samples taken for Chemical Analysis during the five years 1955-1959

A high standard of quality was again maintained during the year. All the samples taken for chemical analysis were in compliance with the prescribed standards as to fat and solids not fat.

TABLE B 40

Year	Number Taken	Number adulterated	Percentage adulterated
1955	174	1	0.57
1956	168	1	0.57 0.60
1957	143		-
1958	167		_
1959	159		-

# Average monthly composition of milk samples submitted and examined by the Public Analyst TABLE B 41

MONTH				Number	Total Solids per cent	Fat per cent	Solids not Fat per cent
January February March April May June July August September October November December				11 3 25 14 5 16 5 5 12 6 38 19	12.26 12.21 12.09 12.09 11.99 12.12 12.17 12.44 12.32 12.40 12.53 12.21	3.75 3.70 3.56 3.54 3.40 3.48 3.52 3.76 3.64 3.68 3.84 3.60	8.51 8.53 8.55 8.59 8.64 8.65 8.68 8.68 8.72 8.69 8.61

# BACTERIOLOGICAL AND BIOLOGICAL EXAMINATION OF MILK

986 samples of sweetmilk for bacteriological examination were purchased by the Food and Drugs Inspectors and delivered to the Central Laboratory, Northern Ireland Hospitals Authority. Plate count, coliform and phosphatase tests were carried out to ascertain if the milk complied with the prescribed bateriological standards as laid down in Statutory Rules and Orders (Northern Ireland) 1951, No. 189. The results of the examinations carried out show a considerable increase in the number of unsatisfactory samples reported. All these cases were followed up by the food Inspectors and recommendations where necessary were made and subsequent sampling carried out.

Samples of Grade A (T.T.) milk were also procured during the year for biological examination as to the presence of tubercle bacilli. A positive result obtained in one of the samples and subsequent investigations in the matter revealed a rather unsatisfactory state of affairs which was reported by

the Medical Officer of Health to the Health Committee. On representations from the Medical Officer of Health to the Ministry of Agriculture (Northern Ireland) the Grade "A" producers licence was withdrawn and all milk produced on the farm was diverted for pasteurisation. The dairy farm was regularly inspected to see that the conditions imposed were being carried out.

# Particulars of Bacteriological Examinations

# TABLE B 42

170001891	4		AND DE	Satisf	factory	Unsati	isfactory
Test		Grade of Milk	Samples Examined	Number	Percentage	Number	Percentage
		"A" (TT)	98	97	98.98	1	1.02
Plate Count		Pasteurised	-	-	-	-	-
		"A" (TT)	98	76	77.55	22	22.45
Coliform		Pasteurised	888	826	93.02	62	6.98
Phosphatase		Pasteurised	888	888	100.00	-	-
Biological*		"A" (TT)	178	173	97.74	1	0.56

<sup>\*</sup> In four instances the guinea pig died before the test was completed.

# PROVISION OF MILK IN SCHOOLS

During the year 135 samples of sweetmilk delivered to schools were taken by Food Inspectors for bacteriological examination. 117 samples were in compliance with prescribed standards and 18 samples were unsatisfactory due to the presence of coliform organisms.

#### TABLE B 43

Test	Grade of Milk	Samples	Satis	factory	Unsat	isfactory
Test	MIIK	Examined	Number	Percentage	Number	Percentage
Plate Count Coliform Phosphatase	Pasteurised Pasteurised Pasteurised	135 135	117 135	86.67 100.00	18	13.33

# MINERAL WATERS

All mineral water manufacturers' premises were frequently inspected during the year and twice weekly sampling of products was carried out. 359 samples were obtained for bacteriological examination and submitted to the Central Laboratory, Northern Ireland Hospitals Authority. 358 samples were reported upon as being highly satisfactory and one sample as being unsatisfactory due to the presence of coliform organisms. These results show a high standard of purity and reflect the precautions taken by the trade to produce a wholesome article. The one adverse result was followed up by visits by the Food Inspector and subsequent sampling.

# FROZEN CONFECTIONERY

Iced lollipops of either fruit juices and water composition or milk with flavouring matter are a very popular commodity particularly with young persons. The methods of production, storage and sale require close supervision in order that a pure article is sold to the public. This close supervision is obtained by frequent inspection of manufacturers' premises, weekly sampling and follow up in cases where adverse results on samples are reported.

224 samples were taken during the year of which 30 were reported as unsatisfactory. These figures indicate the necessity for close surveillance over the production of this commodity of food.

Number examined	Number satisfactory	Number unsatisfactory because of the presence of coliform organisms	Number unsatisfactory because of the presence of coliform organisms of faecal origin
224	194	25	5

# BACETRIOLOGICAL EXAMINATION OF IMPORTED EGGS, EGG POWDER AND EGG ALBUMEN

Number of samples taken for ex	aminatio	n		 	131
Samples of frozen eggs				 	64
Samples of dried eggs				 	65
Samples of egg albumen				 	2
Number of samples in which S.	thompso	n were is	olated	 	1
Number of samples in which S.	daytona	were isol	ated	 	1
Number of samples in which S.	montevi	deo were	isolated	 	9
Number of samples in which S.	pulloran	were iso	lated	 	1

The instances referred to above in which salmonella organisms were isolated necessitated serial sampling being carried out on the whole consignment of dried eggs. By means of the serial sampling further salmonella organisms were isolated and as there was an obvious risk to public health the consignment (of 10 cwt.) was seized and a Magistrate's Order obtained for condemnation and destruction. The seizure was followed by steam sterilisation of all containers, utensils, etc., with which the dried eggs had been in contact. The Food Inspectors supervised the procedure throughout.

# MERCHANDISE MARKS ACTS, 1887 TO 1953

# Merchandise Marks (Imported Goods) Orders, made under Section 2 of the Merchandise Marks Act, 1926

To protect the general public and United Kingdom growers and producers, traders are required to indicate by conspicuous labels the country of origin when exposing for sale certain imported goods. The Food Inspectors are principally concerned with imported fruits, etc., and certain traders require constant reminders to compel them to comply with the various Orders made under the 1926 Act. In two instances the Department had to resort to legal proceedings where traders applied a false trade description to imported goods. The Courts imposed fines amounting to £18.

# Margarine Factories and Wholesale Dealers

Number of premises on the register		 	79
Number of inspections of registered premises		 	90
Number of contraventions discovered and reme	edied	 	6

# CITRUS FRUITS

The Public Health (Preservatives, etc. in Food) (N.I.) Regulations, 1927, were amended by Statutory Rules and Orders of Northern Ireland 1958, No. 161, to permit the importation and sale of citrus fruits which contain not more than 100 parts per million of diphenyl or not more than 70 parts per million or ortho-phenylphenol or mixtures of the two substances, such that if the concentrations of each in parts per million are expressed as percentages of 100 or 70 parts per million respectively, the sum of these percentages shall not exceed 100 per cent. The regulations also provide for the carrying over of proportionate quantities of diphenyl or ortho-phenylphenol to articles of food in the preparation of which citrus fruits are used. During the year samples of citrus fruits were examined by the Public Analyst; these were found to be in compliance with the above regulations.

# THE CONTROL OF FOOD UNFIT FOR HUMAN CONSUMPTION

Reference was made in the 1958 Annual Report to the large and increasing volume of unsound foodstuffs which the Food Inspectors had been called upon to deal with. During the year under review a further large increase in volume can be reported. Condemnation certificates issued in respect of unsound food voluntarily surrendered increased in number from 6,234 in 1958 to 7,133 in 1959. When compared with 5,158 certificates issued in 1954, it can be seen that the demands on the Food Inspectors' time to deal with this class of foodstuffs is ever increasing.

The increase in certificates issued for unsound food does not indicate any lowering in the standards of foodstuffs being sold for human consumption. The actual cause, in fact, is due to the almost generally established practice of manufacturers and wholesalers refusing to credit or exchange any unsound food unless it has first been examined by the Department's Food Inspectors. This practice has now led, in certain instances, to individual shopkeepers calling in the Inspectors to examine one or two "blown" tins, whereas formerly the tins would have been returned to the wholesaler and after several days' returns had been allowed to accumulate only then would the Inspector have been called. A further example is the case of the wholesaler who sends the Department a list of customers requesting examination of suspected unsound foodstuffs and requests the Food Inspector to call at these individual premises. It is difficult to deny or discourage these requests but unless some satisfactory means is found to control the practice, it is obvious a great amount of time will be expended by the Food Inspectors answering widely scattered calls to deal with a few "blown" tins.

The very large amount of unsound food seized and destroyed in pursuance of Magistrates' Orders as shown in Table B 46 (a) is the result of fire damage. In order to indicate the problems and difficulties which arise from time to time the instance of a fire involving a confectionery business may be quoted. Over two tons of confectionery were damaged by heat, smoke and dirt. The confectionery consisted of 922 different types and brands which all had to be listed separately in order to prepare the consignment for examination by a Resident Magistrate with a view to obtaining an Order for condemnation and destruction. The fire referred to also involved a wholesale chemist's premises and the disposal of unidentified chemicals and drugs presented a problem also.

Table B 46 (b) also shows that a Magistrate's Order was obtained for the destruction of 10 cwt. of dried egg powder, an explanation regarding which is found in that part of the Report dealing with the bacteriological examination of imported eggs, egg powder and egg albumen.

# Unsound foodstuffs surrendered by traders after inspection and destroyed or disposed of otherwise than for the food of man .

**TABLE B** 45 (a)

Article					Tins, Jars, Packets, Bottles	Packets, Articles				
Asparagus Baby Foo					38 18	Miscellaneous Mustard	ev.			54 10
Beans	1				3,362	Paste		**		84
Beetroot					108	Peas		• •		4,559
Cereal					38	Pickles	**	**		191
Cheese					54	Potato Crisps		**		55
Cheese Sp					928	Puddings				22
Coffee					112	Rice				617
Cordial					265	Salad Cream	**			67
Corn					98	Salt				3
Cream					200	Sandwich Spread				11
Fish					1,630	Sauce				22
Fruit					8,603	Soup and Broth				3,491
Fruit Juic	e				571	Soup Mixture			**	5
Ham	**				301	Spaghetti				135
Honey					156	Spinach				6
Jam					486	Stew				7
Jellies					18	Syrup			- 11	40
Macaroni					7	Tomatoes				1,301
Marmalad					249	Tomato Juice				201
Mayonnai	se				4	Treacle				3
Meat, Bra	wn,	Veal and Por	k		3,952	Vegetables				735
Meat Ext	act				42	Vinegar				6
Milk					1,044	100000000000000000000000000000000000000		100	1000	

**TABLE B** 45 (b)

Articles	Tons	Cwt.	Qrs.	Lbs.	Articles	Tons	Cwt.	Qrs.	Lbs
Bacon	 -	-	1	14	Fruit (large tins)	2	15		14
Bananas	 -	7	_	15	Ham	2	5	1	21
Beans	 		-	21	Lard			1	13
Butter	 	-	2	1	Margarine			1	
Cheese	 -	1	2	26	Meat, Brawn, Veal and	10000		0000	
Confectionery	 -	3	_	19	Pork	2	11	1	3
Fish	 	4	1	22	Page		-	3	3
Flour		_	1	4	Rice		1	3	1
Fruit (dried)	 	7	2		Tomato Puree (large tins)		1	-	

<sup>7,133</sup> Certificates were issued during the year.

#### Unsound food seized and destroyed in pursuance of Magistrates' Orders

**TABLE B** 46 (a)

Artic	cle	No.	Container	Artic	les		No.	Containe	
Beans		 13	Tins	Nuts			288	Packets	
Beans		 18	Packets	Peas		24	74	Packets	
Biscuits		 85	Packets	Popcorn			56	Packets	
Cheese		 9	Packets	Potato Crisps			606	Packets	
Coffee		 72	Packets	Shortbread			38	Pieces	
Confectionery		 360	Packets	Soup			62	Packets	
Curry Powder		 3	Packets	Soup			4	Tins	
Fish		 64	Tins	Spaghetti			6	Packets	
Fruit		 35	Tins	Sugar			18	Packets	
Fruit Juice		 18	Tins	Tapioca			30	Packets	
Jam		 14	Tars	Vegetables			37	Tins	
Marmalade	-	 . 11	Jars	Wafers			184	Loose	
Meat		 14	Tins					1	

<sup>23</sup> dozen Eggs, 12 Fowl, 8 Gallons Buttermilk.

#### **TABLE B 46** (b)

Articles	Tons	Cwt.	Qrs.	Lbs.		Articles		Tons	Cwt.	Qrs.	Lbs.
Apples			1 - 2 - 3 - - -	2 12 14 25 4½ 6 18¼ 12 7	Flour Fruit Ham Jam Meat Nuts Peas Rice Sago	::	::		1 1 - 4 - 1	2 3 1 -3 2 -	16 23 10 4 14 24

#### FOOD CONTAINING EXTRANEOUS MATTER

The following complaints received from the public of the presence of extraneous matter in food were dealt with by the Department during the year:—

Piece of metal in a plum pudding.

- \*Insect larvae in chocolate drops.
- \*Mould growths in meat pies. (4 instances) (Summons in 1 instance)
- \*Piece of metal in a meat pastie.
- \*Live insects in fish.
- \*Steel bristles in a sausage.
- \*Live insects in baby food.

Insects in a packet of popcorn.

Piece of cloth in a tin of corned meat.

- \*A wire nail in pastry.
- \*Mould growths in sausage roll.

Hairs in a malt loaf.

- \*Insect in a wheaten farl.
- \*Cigarette end in a wheaten farl.

Mould growths in meat pies (2 instances).

Piece of cord in coconut pastry.

A wire nail in a plain loaf.

- \*Mould growths in a plain loaf. (2 instances) (Summons in 1 instance)
- \*Insect in a sliced loaf.
- \*Safety pin in a cream cookie.

#### Sale of Ice Cream Acts (Northern Ireland) 1937 and 1957

Comment was made in the 1958 Annual Report on the remarkable increase in the number of registered premises over the past five years. The increase continued during 1959, and at the end of the year the total registered premises in the City was 955. The greater part of ice cream now sold is pre-packed and a large volume of it is imported from England. Bulk or soft ice cream now sold in the City is manufactured locally. All premises registered for the manufacture and sale of ice-cream are regularly and systematically inspected and on the whole good hygienic conditions existed therein. Samples for chemical analysis and bacteriological examination were taken regularly throughout the year. All the samples for chemical analysis were reported by the Public Analyst as genuine and in compliance with prescribed standards as to fat and total solids contents. The results of the Methylene Blue test were much better than those reported upon in 1958.

### Sale of Ice Cream Acts (Northern Ireland), 1937 and 1957

Registration of Premises used for Manufacture for sale, and sale of Ice-cream

#### TABLE B 47

Particulars	Manufacture and Sale	Sale Only	Total		
Premises registered at 1st January, 1959	**	 	47	885	932
Deletions during the year Registrations during the year		 	4	88	92
On register at 31st December, 1959		 	1	114	115
on register at dist December, 1959		 	44	911	955

Inspections of registered premises			100	2,551
Summonses for selling ice cream in unregistered premise	es	1.		2
Samples submitted for bacteriological examination				948
Samples submitted for chemical analysis				74
Cautionary letters sent				15
Orders made refusing or cancelling registration				0

<sup>\*</sup> Denotes legal proceedings taken.

#### Particulars of Ice Cream samples taken during the year for chemical analysis

#### TABLE B 48

Complied wit	th Standards	Did	Did Not Comply with Standards							
Number	0/	Fat		Total Solids						
Number	%	Number	%	Number	%					
74	100.00	-	-	_	-					

#### The Ice Cream (Heat Treatment, etc.) Regulations (N.I.) 1954 Methylene Blue Test (948 samples)

#### TABLE B 49

	Gra	de		Number	Percentage
1			 	886	93.46
2			 	46	4.85
3			 	6	0.63
4			 	10	1.06

#### Conditions discovered on inspection of Ice Cream premises

#### TABLE B 50

Nature of Conditions	Instances	Remedied	In Progress	Out
Walls, ceilings, floors, etc. in disrepair Lighting and ventilation not provided or insufficient Sink defective, worn or not provided Sink, hot and cold water not provided or insufficient Sink, wastepipe untrapped or connected direct to the drain Personal washing facilities not provided or insufficient Soap and towels not provided or insufficient Failure to prevent risk of contamination of food Other defects	4 1 1 1 1 4 2 5 3	2 1 — — 3 2 5 5		2 -1 1 1 1 1  2
TOTALS	 22	18*	-	8

<sup>\*</sup> Defects remedied include outstanding defects from the previous year

#### FOOD HYGIENE

At the end of the year the long awaited Regulations to deal effectively with the hawker or barrow boy were still not forthcoming. Repeated representations to the Ministry have not yet produced the required legislation, consequently the rather awkward and embarassing situation of being able to deal with the static trader and being able to do very little with the mobile trader remains. Conditions under which food is prepared, stored and sold in the Belfast Markets still continue to be unsatisfactory and the inevitable comparisons are always made when other shopkeepers are pressed to carry out alterations so that premises may comply with existing legislation.

Apart from the circumstances described above, progress still continued to be made in raising the hygienic standards in food premises in the City. There are of course the exceptional cases in which no amount of persuasion will produce the improvement in conditions necessary and legal proceedings have to be instituted. It was found necessary to issue 61 Summonses under the Public Health (Prevention of Contamination of Food) Regulations (Northern Ireland), 1948, and the Courts imposed fines amounting to £90 10s. 0d. for contraventions of the Regulations. Considerable progress was made in improving sanitary accommodation for patrons in Cafes and Restaurants, but again it was necessary to institute legal proceedings in 6 instances for failure to provide the accommodation required by law.

Progress has been made in pre-packing perishable foods such as meat, bacon, etc. The use of polythene sacs with the air exhausted from them, and the sacs heat sealed, has produced good results. Greater use is being made of refrigerated display cabinets and more cold storage facilities are being installed. All of these may be regarded as aids in the reduction of possible contamination and in the improvement of the keeping qualities of food. In the matter of health education, 1,194 wall plaques were affixed to the walls of food premises by the Health Department staff.

#### Inspection of Food Premises

Inspections by trade or business (excluding bakehouses)

#### TABLE B 51

Trade or Busi	ness	Inspections	Trade o	Inspections		
Bacon Curing Stores		 50	Industrial Cante	ens	 	16
Butchers		 2331	Markets .		 	570
Chemists		 22	Meat Factories		 	49
Confectionery		 3883	Milk Retailers		 	890
Fish		 239	Mineral Water F	actories	 	199
Fish and Chips		 887	Poulterers .		 	512
Food Manufacturers		 106	Provisions .		 	1022
Fruiterers		 1713	Public Houses .		 	527
Grocers		 4479	Restaurants		 	577
Hawkers' Carts		 635	Wholesalers .		 	556
Ice Cream		 2551	Pastry .		 	59
Bottling Stores		 23				THE RELATION
			Total		 	21,896

#### Butchers' Premises

Premises registered at 1st	Janua	ry, 195	9	 	 	367
Deleted during year				 	 	23
Registered during year				 		20
Premises on register at 3	lst Dec	ember,	1959	 	 	004
Inspections of registered	premise	s		 	 	2,331

#### Belfast Corporation Act, 1930 and the Public Health (Prevention of Contamination of Food) Regulations (N.I.) 1948 Conditions discovered on inspection of butchers' premises

TABLE B 52

Nature of Condition		Instances	Remedied	In Progress	Out- standing
No proper preparation room		1	3	_	
Walls, ceilings, floors, doors, etc., in disrepair		100	93	5	48
Walls, ceilings, floors, windows, doors, etc., required cleans	ing or				
re-decoration		7	8	-	
Lighting and ventilation not provided or insufficient		18	24	2	6
Sink: wastepipe untrapped or connected direct to drain		27	20	1	6
Sink: hot and cold water not provided or insufficient		22	16	3	8
Fixtures and fittings in a state of disrepair		16	26	1	2
Drain inlets within a food room		6	1	100	5
Failure to prevent risk of contamination of food		3	4	_	2
Cold storage facilities not provided			2	_	2
Cold storage improperly sited		2	1		1
Equipment worn or defective: required repair or renewal		16	17	2	9
Cutlery and other accessories defective or worn		_	2	_	_
Proper bins not provided for storage of bones and refuse		2	3		1
Refuse bin accommodation unsatisfactory		2 5	3	1	2
Yards, surface defective or dirty		3	4	1	1
Other defects		13	6	3	13
Suitable and sufficient personal washing facilities not provide		59	47	6	38
Supply of soap and clean towels not sufficient or not provid		47	37	5	35
Sanitary accommodation not in compliance or not provided		27	31	15	7
Totals		373	348*	45	186

<sup>\*</sup> The defects remedied include outstanding defects from the previous year.

Public Health (Prevention of Contamination of Food) Regulations (N.I.), 1948
Conditions discovered in food premises (excluding butchers, ice cream, fish and chip shops, restaurants, cafes, snack bars, canteens, and licensed premises).

TABLE B 53

Nature of Conditions		Instances	Remedied	In Progress	Out- standing
Ceilings, walls, doors, windows, floors, etc., in disrepair		52	110	3	4
Ceilings, walls, doors, windows, floors, etc., required clear	sing and				
re-decoration		19	19	_	-
Lighting and ventilation not provided or insufficient .		28	80	4	9
Sink: hot and cold water not provided or insufficient .		5	26	-	30
Sink: wastepipe untrapped or connected direct to drain		6	11	1	-
Drain inlets within the food room		7	16	4	9
Failure to prevent risk of contamination of food .		9	7	1	1
Equipment worn or defective: required repair or renewa	1	4	12	4	10
Unsuitable cloakroom accommodation		-	1		_
Bottlewashing facilities not provided or insufficient .		_	1	- 11	_
Cold storage facilities not provided		-	3	-	2
Fixtures and fittings in a state of disrepair		4	4	-	_
Yards, paving, walls, etc., dirty or defective		2	3	-	-
Proper bins not provided for storage of bones and refuse		1	7	_	-
Refuse Bin accommodation unsatisfactory		2	4	-	5
Suitable and sufficient personal washing facilities not pr	ovided	19	16	1	2 2
Soap and clean towels insufficient or not provided .		6	6	1	2
Sanitary conveniences within or communicated direct	with food		1000		
room		1	6	2	5
No proper preparation room provided			1		_
Other defects		28	29	2	14
Other delects			1000	1000	1000
Sanitary Accommodation			10000		1.0
Sanitary accommodation not provided or insufficient .		7	10	2	15
Light and ventilation not provided or insufficient .		3	3	-	-
Floors, basins, walls, seats, etc., dirty or defective		13	9	-	4
Flush to water closet defective or inadequate .		2	2		-
Screens, doors, fasteners, etc., defective or not provided		3	3	-	-
Urinals, absence of or insufficient flush		1	1		-
Totals		222	390*	25	112

<sup>\*</sup>The defects remedied include outstanding defects from the previous year.

## Conditions discovered in restaurants, cafes, snack-bars and non-industrial canteens.

TABLE B 54

Nature of Condition	Instances	Remedied	In Progress	Out
No proper preparation room	8	6	2	6
Dining rooms: walls, ceilings, windows, etc., required cleansing	_	3	1	
Dining rooms: walls, ceilings, floors, etc., in disrepair	8	15	6	8
Dining rooms: light and ventilation not provided and maintained	5	5	2	10
Kitchens: walls, ceilings, floors, windows, etc., required cleansing	1	3		
Kitchens: walls, ceilings, floors, etc., in disrepair	10	15		-
Kitchens: light and ventilation not provided and maintained	1	5		1
Foodstores: walls, ceilings, floors, windows, etc., required cleans-		11		
	1	4	_	1
Foodstores: walls, ceilings, floors, etc., in disrepair	4	10	_	6
Foodstores: light and ventilation not provided and maintained	1 1 1 2 2	2		2
Preparation rooms: walls, ceilings, floors, etc., in disrepair	7	4	1	8
Preparation rooms: light and ventilation not provided and				
	1	2		
Fixtures and fittings in a state of disrepair	4	6		9
Suitable and sufficient personal washing facilities not provided	8	11		5
Soap and clean towels not sufficient or not provided	3	4	1	9
Sink: hot and cold water not provided or insufficient	4	8		2 5 2 1
	3	8		
	4	7	1	5
Swill-bin accommodation unsatisfactory or bins not provided	2	2	1	1
Cold storage facilities not provided or insufficient	-	3	-	1
Cooking ranges not provided with means for removal of fumes		,		1000
	7	13		
Sanitary conveniences, dustbins, etc., within or communicating		13		
	4	5		-
** ', ', ', ', ', ', ', ', ', ', ', ', ',	3	3	3	5 3
	0	3		0
T-11 t t-1ttttt	1	2		
No proper potate store provided	1	1		
Danin inlate within an almost time discreti-	2	2		-
No provision to provent calld matter antonia dania.	1	1	-	
Other defects	3	5	1	2
outer defects	3	3		2
Sanitary Accommodation	AN POWER	Bar I a	DOM:	
Floors, basins, seats, walls, etc., dirty or defective	6	4		
Not provided or insufficient for meles	11	5		10
Not provided or insufficient for females	9	1		12
Uringle defective or inconitors	1	7	-	12
				And the same
Totals	123	172*	21	93

<sup>\*</sup>Defects remedied include outstanding defects from the previous year.

## Conditions discovered in licensed premises and bottling stores.

TABLE B 55

Nature of Conditions	Instances	Remedied	In Progress	Out- standing
Sanitary conveniences, dustbins, etc., within or communicating direct  Drain inlets within or communicating direct	4 4	1 4	2	1
Bars and Parlours, walls, ceilings, floors, windows, etc., required cleansing  Bars and Parlours, light and ventilation not provided and maintained  Beer Cellars and Bottling Stores and Beer Cellars and Beer Beer Beer Beer Beer Beer Beer Bee	1	1	-	-
etc., required cleansing  Beer Cellars and Bottling Stores, walls, ceilings, floors, windows,	1	2	-	_
Beer Cellars and Bottling Stores light and ventilation and	7	6	-	1
Preparation rooms, walls, ceilings, doors, floors, etc., in disrepair	6	5	-	1
Sink, wastepipe untrapped or connected directly to drain		1 1 3	=	3
Suitable and sufficient personal washing facilities not provided	12	9	1	2

Nature of conditions			Instances	Remedied	In Progress	Out- standing
			11	16	1	2
Glasses; unsatisfactory method of cleansing			3	3		1000
Failure to prevent risk of contamination of food			1	5	1	2
Beer pipes, trays, drainers, or sinks, defective, worn	or c	leanli-	The Party and			
ness not maintained			-	3	3	2
Bottlewashing facilities insufficient or not provided			2	3		2
Proper bins not provided for refuse, etc., or refuse	bin a	ccom-				100000000000000000000000000000000000000
medation unacticle store				1		E OF LESS
Vanda maring walls at in discourse			1000	9		2
Other defects			2	ī	1	3
Sanitary Accommodation						
Not provided or insufficient for males			2	2		_
Not provided or insufficient for females			1	3	10000	_
Screens, doors, fasteners, etc., defective or not provid	led		3	3		
Lighting and ventilation not provided or insufficient			4	4	223	1000
Urinals: defective or insanitary			1	1 -		
Urinals: absence of or insufficient flush thereto			3	3	130	1000000
Flush to water closets defective or inadequate				2	100000000000000000000000000000000000000	
Trash to water closets delective of madequate	* *	• • •	A CONTRACTOR OF THE PARTY OF TH	-		100
Totals			74	88*	9	21

<sup>\*</sup>Defects remedied include outstanding defects from the previous year.

### Belfast Corporation (General Powers) Act (Northern Ireland), 1948, Section 25 Registration and Inspection of Premises used for the business of a Vendor of Fried Fish and Fried Potatoes

Registered at 1st January, 1959					 	199
Registered during the year					 	23
Registrations refused during the ye					 	3
Registrations cancelled during the					 	2
Summonses issued during the year	for u	nregist	ered p	remises	 	1
Deleted during the year					 	20
Registered at 31st December, 1959					 	200
Inspections of registered premises					 	887

Conditions discovered on inspection:-

#### TABLE B 56

Nature of Conditions	Instances	Remedied	In Progress	Out- standing
Ceilings, walls, floors, doors, etc., in disrepair	16	15	-	1
Ceilings, walls, doors, windows, etc., required cleansing and re-	7	7	1	
decoration	i	i	_	
Lighting and ventilation not provided or insufficient	-	i	_	-
Sink; hot and cold water not provided or insufficient	2	î	_	1
	-		34.5	1000
Cooking ranges not provided with means for removal of fumes	9	2	14-	_
or accessible for cleansing	1 Ã	7	_	1
Suitable and sufficient personal washing facilities not provided	4	4	_	1
Soap and clean towels not sufficient or not provided	1	1		_
Drain inlets within or communicating direct with food room	2	3	_	
Yards, paving, walls, etc., defective	1	1	_	
Yards, paving, walls, etc., dirty	i	2		4
Failure to prevent risk of contamination of food	5	5		-
Other defects				
Sanitary Accommodation				
	1 -	2		1
Floors, basins, walls, etc. dirty or defective		1		-
Lighting and ventilation not provided or insufficient	1	2	-	
Screens, doors, fasteners, etc., defective or not provided	1			
Totals	48	55*	-	5

<sup>\*</sup>Defects remedied include outstanding defects from the previous year.

## Summary of Legislation under which action was taken to bring food premises into compliance

Notices served under the various Acts and Regulations where breaches were discovered by Food and Drugs Inspectors during the year:—

TABLE B 57

Type of Business	Public Health (Prevention of Con- tamination of Food) Regulations (N.I.) 1948	Shops Act (N.I.) 1946	Public Health (Ireland) Acts 1878—1946	Belfast Corporation Acts 1845 to 1956	Total
Cafes	15	1	5	9	30
Licensed Premises	13	2	5	1	21
Butchers	84	11	14	32	109
701 1 1 (01.1	1		2	_	3
-			1		1
	STATE OF THE STATE OF				
Bacon Curing, Bottling Stores	1				1
and Chemists	1		1	1978	7
Confectionery	5	1	1	TO STATE OF THE PARTY OF THE PA	1
Food Manufacturers	The state of the s	1	2	-	3
Fruit	6	-	3	-	9
Grocers	15	6	22	_	43
Wholesale Stores	2	-	1	-	3
Totals	142	22	56	10	230

#### Pests Control

#### Rodents

During the year there was no legislative change affecting rodent control or any apparent indication of the Rats and Mice (Destruction) Act, 1919, being superseded by an Act similar to the English Prevention of Damage by Pests Act, 1949. Under the Rats and Mice (Destruction) Act, it is the responsibility of the occupier to take such steps as may be necessary and reasonably practicable for the destruction of rats and mice in or on any land and for preventing such land from becoming infested. "Land" includes any building and other erection on land and any cellar, sewer drain or culvert in or under land. By this Act the local authority, in the exercise of its powers, can, as far as possible, take or secure collective action for the destruction of rats and mice. To maintain control of infestation in properties, a systematic survey of business premises in the City is carried out in order that the presence of rats and mice may be revealed and infestation dealt with. This survey also makes occupiers aware that a special section of the Health Department exists to deal with rodents.

It is of the utmost importance in all cases of infestation to locate the source, otherwise the problem cannot be dealt with effectively. Rodents may be brought into premises by means of packages, farm produce, etc., or may obtain entrance by means of structural defects or infestation may be due to some hidden drain or sewer defect either outside or inside the premises. The diagnosis of the latter is no easy matter and requires experience and knowledge of the habits of rats. This Section's aim has always been to concentrate on locating the source of infestation, if at all possible, and to take action accordingly. The reasons for re-infestation of premises are frequently not understood by occupiers who in many cases do not like the idea of paying the cost of more than one treatment. It should be made clear that there can be no guarantee that premises once treated will not become re-infested.

During the year the rodent control staff surveyed 9,046 sites in connection with the systematic survey and investigation of complaints, and a further 12,773 visits were made entailing operational visits and re-examination of buildings and lands. Of the 9,046 sites examined 564 were found infested, details of which are shown in the statistical data.

During the year 292 buildings were disinfested and 69 were in the process of being disinfested at the end of the year. Infestations are not considered remedied until no further trace of rodents is found during a period of three or four weeks after the treatment has been completed. The destruction of rats and mice within the area of infestation in the shortest possible time is the purpose of the Pests Control Section. In this way the danger of infestation by the invasion of rodents from adjoining buildings and lands and the natural increase of rodents by breeding is reduced to a minimum.

The 21,819 inspections, surveys, etc. do not include inspections made by Sanitary Officers under the Act in relation to dwelling houses.

atistical Details:—					
Surveys of lands and premises					
Lands, premises, etc. found infested					21,819
Rat Infestation:					564
1 Food manufact					
O Now food				65	
Z. Non-lood premises Mouse Infestation:				261	
				00	
2. Non-food premises			***	88 150	
Premises treated by Pests Officers					332
Poison campaigns carried out by Pests O			of the oc	cunier	332
who undertook to pay costs			or the oc	cupiei	361
1. For Rats				230	
2. For Mice				131	
School buildings and meals kitchens tre	eated at	the requ	est of Di	rector	
					12
Poison campaigns carried out in school			eals kitch	nens	14
(For rats-					
Premises cleared of rats and mice by Pe					292
Premises where the clearing process wa			at the	end of	60
the year Premises test baited					69
					7,274
Premises wherein the occupier underto on statutory or verbal notice under t					
Act, 1919			···		189
1. Action taken by rat destruction	firms				22
(a) For rats				10	
(b) For mice				12	
2. Action taken by the occupiers					167
(a) For rats				77	
(b) For mice				90	
Premises having no evidence of rats or	mice a	t time of	surveyi	ng but	
with rat and mouse destruction firms					149
Premises where rat proofing and other	work v	was done	to preve	ent re-	24
infestation					34
Notices served under the Rats and Mic					113
Summonses issued under the Rats and					1
Premises where the drains were tested					252
Premises where the drains were defecti					136
Drains repaired					450
Drains re-laid					295
Number of rat destruction campaigns ca				tipping	14
grounds					14

Sta

#### Sewer Treatment

In order to maintain a high standard of rodent control in the City, it is essential for surface and sewer rodent control to be closely co-ordinated, therefore it has been necessary to maintain a constant watch on the breeding and migration of rats through sewers and drains with a view to eliminating infestations of buildings and lands from the sewers. A large section of the Corporation's sewerage system is, through the co-operation of the City Surveyor, subjected to systematic treatment, which has brought the rat population in the sewers under satisfactory control. The method employed is similar to that of previous years. This consists of poison baiting with either zinc phosphide or arsenious oxide at all manholes in areas which have not shown by test baiting to be free from rats. The poison bait is preceded by two placings of plain bait on alternate days.

The total area of the City which is subjected to periodical treatment against rats in sewers is bounded by:—

NORTH—Crumlin Road, Ballysillan Road, Ardoyne Road, Oldpark Road, Westland Road, Hughenden Avenue, Skegoneill Avenue, U.T.A. Railway Corporation Street and Donegall Quay.

SOUTH—Donegall Road, Glenmachan Street, Olympia Drive, Capstone Street, Osborne Park, Deramore Park, Stranmillis Road and River Lagan.

EAST—Station Street, Ulster Transport Authority Railway, Holywood Road, Belmont Road, Earlswood Road, Sandown Road, North Road, Loop River, Ardenlee Avenue, Ravenhill Road, Carolan Road and Annadale Embankment.

WEST—Woodvale Road, Ballygomartin Road, Britton's Lane, Springfield Road, Whiterock Road and Falls Road.

This section of the City is divided into 61 sewer areas involving the treatment of 5,460 manholes.

Rat destruction campaigns car	ried ou	t in the s	ewerage :	system	 227
Manholes treated in the sewer	area				 5,460
Pre baits laid					 19,784
Pre baits taken by rats		2.5			 10,726
Poison baits laid in manholes					 5,401
Poison baits taken by rats					 5,081

#### Mosquito Control

The annual routine work within the City Boundary began on 20th April and continued intermittently as required until 16th October, 1959. The method of control consisted of the application of waste oil with D.D.T. added by the Todd Insecticidal Fog Applicator operated by one of the Pests Officers. Where this treatment could not be applied control was obtained by hand spraying. Preliminary surveys of the potential breeding places were carried out at the beginning of April and oiling by fogging where it was possible followed.

Information of the various areas which were visited is as follows:—Bog Meadows: Moderate breeding existed in this area but satisfactory control was maintained from several operational positions.

Musgrave Park: Mosquito larvae were found at the beginning of the season and were successfully controlled by the larvicidal treatment until this area completely "dried up".

Lagan Valley: Mosquito larvae (not in large numbers) were found in parts of this area at the commencement of the season. The continuance of the exceptionally dry weather reduced considerably this breeding area. Control measures were applied where it was necessary.

Orangefield and Castlereagh: Several applications of insecticidal fog were given to the swampy ground at rear of Sandhill Parade and adjoining the Knock River and between the Loop River and Orby Road including Elmgrove school.

Rosevale Park (Knock Road): Slight mosquito activity was observed in this area although no complaints were received from the residents in the neighbourhood. Mosquito larvae were found in the field at Rosevale Park in the month of May. Several oil treatments maintained satisfactory control until the stagnant water in the field and ditch "dried up".

Duncrue Street: Most of the slob-land has been filled in except a few places where mosquitoes could develop. The treating of these places was successful in maintaining mosquito suppression here.

Shore Road and Greencastle: The ditches adjoining the Ulster Transport Authority Railway from the rear of Downview Bungalows to Greencastle were treated a number of times. Slight evidence of mosquito larvae was found.

Fortwilliam Park and Belfast Castle Grounds: At Fortwilliam Park and Belfast Castle Grounds mosquito breeding was found in the month of May. Treatment with insecticidal fog and spraying satisfactorily suppressed the breeding here.

Garden Plots: The garden plots at Adelaide, Annadale, Channing Street, Flora Street, Monarch Street, Malone Road, Westland Road and Whiterock Road were visited several times and water containers with mosquito larvae were treated with larvicide.

During the season the following inspections were made, treatments carried out and materials used.

Surveys of mosquito	areas		 	 	306
Areas treated with l	larvicide		 	 	263
Mileage run by vehi	cle		 	 92	1 miles
Waste transformer	oil used		 	 1,040	gallons
Larvicide used			 	 126	,,
Paraffin oil used			 	 114	.,,
Petrol used by vehic	cle and Ti	fa machine	 	 149	,,

#### Other Insect Pests

During the year complaints regarding various kinds of insects such as bugs, cockroaches, fleas, flies, spider beetles, steam flies, Pharaoh's ants, etc., were investigated and complainants advised as to the best method of dealing with their problems. Treatment in special circumstances on request from Sanitary Officers, Health and Welfare Visitors was applied when considered necessary. The campaign against the house fly continued this season, the principal target being the breeding sites and for this purpose regular periodic treatment of manure pits was carried out from early in the spring until the beginning of autumn. The exceptionally good summer increased the fly problem at their breeding places and especially at the Corporation's tipping grounds which were treated by the Cleansing Section's staff of the City Surveyor's Department. During August and September the Health Department supplemented (by request) the treatment of the tips. In addition 714 visits were made to food premises and advice given on fly control and in many instances demonstrations were given of an aerosol spray suitable for use in most food shops for an almost immediate knock-down action.

Rag merchants' premises were given as usual the monthly application of insecticide. Treatments were carried out and the costs charged to the respective occupiers. Corporation houses were, on request from the Estates Department, disinfested of fleas and bugs and this usually occurred when there was a change of tenancy. During the year it was necessary to treat 26 dwelling houses for bugs and 73 premises for cockroaches and steam flies.

Inspec	tions of premi	ises on co	omplaint fr	rom Sanitai	y Offic	cers, Heal	th and W	elfare	
Visi	tors, Occupier	rs, etc.					• • •	111	2,072
Premis	ses found infe	sted							813
(a)	Bugs		.,						26
(b)	Cockroaches	and ste	eam flies						73
(c)	Fleas								208
(d)	Flies								451
(e)	Other insect	ts							55
Premis	ses treated wi	ith insec	ticide						664
Stable	s, Cattle yard	ls and p	iggeries tre	eated			***	**	475
	tores treated								178
	to food shops			onstrations					714

## The Hydrogen Cyanide (Fumigation) Act, 1938 The Hydrogen Cyanide (Fumigation of Buildings) Regulations (Northern Ireland) 1952

Notification of intention to fumigate buildings with hydrogen cyanide to destroy mill pests-4.

#### The Lister Todd Fog Applicator

In addition to mosquito control and the application of insecticides, the TIFA machine was used for the testing of drains and sewers which could not be tested by the hand operated machine, or in cases where the smoke test revealed no defects, due to the impossibility of obtaining the necessary pressure of smoke in the drain to make a satisfactory test.

#### Disinfection

The Disinfecting Station, situated at the Laganbank Road, is a one storey building consisting of two sections; one for infected and the other for disinfected articles with separate male and female apartments with male and female attendants. There are two high pressure steam disinfectors which are supplied with steam from an electrode boiler. After the removal to hospital of patients suffering from certain infectious diseases or after the recovery of nursed-at-home patients, a disinfecting service is provided for infected premises and bedding. Disinfection of bedding is carried out at the station for the Down County Health Authority in accordance with an agreed arrangement. Traders deliver to the station for disinfection second-hand clothing for export for which a certificate is required. A fee is charged in certain instances for disinfection and the issue of certificates.

Articles disinfecte	d at the	e Disinfect	ing Sta	tion:—				
By steam								8,673
By formalin								3,223
In addition:—								
Articles dest	royed o	n request						169
Library book						to the C	entral	
Library (a								235
Library (pri			ected					18
Persons bath	ned and	disinfecte	d at the	station				109
Visits to pre	mises w	here infec	tious di	sease occu	rred			1,221
Premises dis	infected			4000				671
Miles covere	d by ve	hicles in t	he disin	fection of	premise	s, bedding	g, etc.	5,363

#### Cleansing Clinic

A Cleansing Clinic is also provided at the Disinfecting Station for the cleansing of verminous persons and the treatment of scabies in adults and children. During the year 67 verminous persons were deloused and 1,205 articles of clothing and bedding were disinfected at the Clinic. 85 persons were treated for scabies involving 181 treatments. The table shows the number of persons treated at the Clinic for scabies during the six years 1954—1959.

TABLE B 58

Year	First Treatment	Subsequent Treatment	Total
1954	41	21	62
1955	66	80	146
1956	105	125	230
1957	100	66	166
1958	69	47	116
1959	85	96	181

#### FLOODING

The only flooding of dwellings reported during the year occurred in the month of June in Fane Street, Great Northern Street and the lower end of Ulsterville Avenue. The affected householders were supplied with disinfectant.

## TABLE B 59

Proceedings	Offences	Summana	0-1	P
Belfast Corporation Acts, 1845	Failed to provide dustbin	Summonses	Orders	Fines
to 1956	Failed to register premises as a vendor of fried fish or fried potatoes	3		
-brieflessing a faith	Failed to provide suitable sanitary conveniences	6		22 7 6
The state of the s	shop	1		5 0 0
1000	Kept swine within 300 ft. of a dwelling house	3		6 0 0
125A	of a dwelling house	1	N L	3 0 0
	Failed to cleanse and/or repair drains Carried out repairs to a drain without giving prior notice to the local Auth-	37	-	0 2 0
	ority	1	-	2 0 0
Factories Acts (N.I.), 1938 and 1949	Failed to maintain and keep clean the sanitary convenience	2		9 12 0
	Failed to provide a suitable sanitary convenience	1		1 0 0
Merchandise Marks Act, 1887	Applied a false trade description	2	-	18 0 0
Public Health (Ireland) Act, 1878 and the housing (Ire-	Contravention of By-laws in respect of houses occupied by workers and let			
land) Act, 1919	in lodgings or occupied by members of more than one family	200		70.10
	Disobedience (continuing offences)	200 43	-	76 10 0 59 19 6
Public Health (Ireland), Acts, 1878 to 1946	Failed to abate public health nuisances Disobedience of Magistrates' Orders to	1,572	183	108 13 0
	abate public health nuisances Water closets not provided with suffi-	23	-	203 0 4
	cient water for flushing purposes Disobedience (continuing offences)	84	=	27 10 0 1 5 0
NAME OF STREET OF STREET	Sold or exposed for sale food unfit for the food of man which was seized and			
	destroyed by order of Resident Magi- strate	20	_	27 10 0
	Refused to obey an order of a Resident Magistrate to allow admission of a			MARA
and the second	Sanitary Officer (Section 118) Failed to provide sufficient sanitary	2	-	10 0 0
	accommodation	1	-	1 0 0
Public Health (Preservatives,	Sold foods containing prohibited pre-		1	5 0 0
etc., in Food) Regulations (Northern Ireland), 1927 to	servatives	11	-	37 0 0
1958	excess of the amount allowed	13	_	41 0 0
Public Health (Prevention of Contamination of Food) Regu-	Food prepared and stored in a room communicating directly with the			
lations (Northern Ireland), 1948	sanitary convenience Food prepared or stored in a room where	1	-	0 5 0
NAME OF TAXABLE PARTY.	there was an outlet for ventilation of a drain	2	-	4 0 0
MARKET SHEET STATE OF	Failed to keep in proper repair walls, ceilings, floors, windows and doors in			The state of the s
THE PARTY OF THE P	a room where food was prepared for sale	6	-	10 0 0
	Failed to finish with a hard, smooth, and durable material walls and ceilings in rooms where food was pre-			
	ings in rooms where food was pre- pared for sale	8	-	5 0 0
- Dollar Present	often as may be necessary to keep them clean in a room where food was			
	prepared for sale Used a room as a living room or sleep-	1	-	2 0 0
	ing place in which food was prepared or stored for sale	6	_	10 10 0

TABLE B 59 (continued)

Proceedings	Offences	Summonses	Orders	Fines
	Food prepared or stored in a room communicating directly with a sleeping place	1	1	1 10 0
	and sufficient means of ventilation in rooms used as food rooms	3	-	2 0 0
	Failed to provide adequate washing facilities	10	-	19 5 0
	rooms where food was deposited for sale	6	-	10 0 0
	utensils, etc., used in the preparation of food for sale	3	-	8 0 0
	against contamination by animals and dirt	1	-	1 0 0
	vehicle used in conveyance of food for sale	1	-	2 0 0
	persons employed on a vehicle trans- porting food for sale Failed to take all reasonable pre- cautions to prevent contamination	4	-	11 5 0
The second second	of food in preparation for sale	8	-	5 0 0
Rats and Mice (Destruction) Act, 1919	Failed to take reasonable steps which were necessary to destroy rats on		11/6	
	premises	1		4 0 0
Sale of Food and Drugs Acts, 1875 to 1899	Adulteration of foodstuffs	4		4 0 0
Shops Act (Northern Ireland), 1946	Contraventions of Section 22	3	-	1 10 0
Sale of Ice Cream Acts (Nor- thern Ireland), 1937 to 1957	Sold ice cream in unregistered premises	2	-	2 0 0

The number of pupil Sanitary Officers engaged in practical training in the Department at 31st December, 1959, was 14. During the year Mr. A. R. S. Twaddell was successful in qualifying as an inspector in Meat and Other Foods, Messrs. N. Barry, R. J. Coulter and D. Owens qualified for the Diploma for Smoke Inspectors. The examination was held by the Royal Society for the Promotion of Health, London.

Mr. Robert Isdell, Divisional Sanitary Officer, retired at the end of July after forty years service with the Belfast Corporation. He was a loyal and conscientious officer and I wish him many years of happy retirement.

At the end of another year it is my great pleasure to thank the Medical Officer of Health for the kindness and consideration that he has shown to me. I would also thank every member of the Sanitary and Clerical Staff for their loyal co-operation.

JOSEPH WALKER, M.A.P.H.I.,

Chief Sanitary Officer.

#### RAINFALL IN INCHES

TABLE B 60

Month		1952	1953	1954	1955	1956	1957	1958	1959
January		4.73	1.78	3.05	3.05	4.19	4.85	4.78	2.52
February		1.04	1.61	4.57	3.87	1.31	2.52	6.49	1.40
March		1.61	0.41	4.96	1.27	1.77	3.78	2.19	2.89
April		1.77	2.09	0.75	3.03	1.50	2.04	2.07	2.72
May		1.25	2.49	4.03	3.15	1.85	2.95	3.88	1.94
June		3.19	1.53	3.05	5.26	3.27	1.20	7.83	2.64
July		2.19	6.39	4.17	1.64	3.77	4.39	4.79	4.36
August		6.16	3.30	2.87	1.18	6.69	3.93	4.66	0.87
September		2.26	2.67	5.15	4.79	4.19	5.93	5.46	1.53
October	***	4.39	2.17	7.08	2.83	3.15	4.55	2.09	3.28
November		3.42	4.23	7.27	3.31	2.12	2.10	2.35	3.43
December		5.05	3.62	6.66	6.69	6.10	5.53	6.13	6.07
ORGONO:	SE SE	37.06	32.29	53.61	40.07	39.91	43.77	52.72	33.65

Data kindly supplied by the Belfast City and District Water Commissioners. Readings taken at Oldpark Station. Gauge at 200 feet O.D.

## REPORT OF THE CITY VETERINARIAN FOR THE YEAR 1959

Report of the work at the Belfast Municipal Abattoir in connection with Ante-mortem and post-mortem examinations of animals slaughtered for human food.

Number and description of animals slaughtered each month.

TABLE C1

Month	7	Cows	Heifers	Bulls	Bullocks	Calves	Sheep and Lambs	Goats	Pigs
January		277	360	15	4,621	14	13,102	36	277
February		221	212	29	3,811	7	9,713	40	447
March		262	168	33	4,172	4	9,859	39	182
April		330	172	15	4,215	8	11,255	42	206
May		278	143	19	3,012	9	11,999	17	223
June		255	140	13	3,752	10	15,326	21	429
July		233	237	9	3,128	2	13,439	28	458
August		198	162	13	3,859	30	18,838	11	30
September		402	172	7	4,499	83	21,097	21	178
October		288	146	1	4,977	143	19,253	45	276
November		345	119	4	4,796	85	21,287	69	178
December		213	138	16	4,646	84	16,386	59	434
		3,302	2,169	174	49,488	479	181,554	428	3,318

TOTAL OF ANIMALS SLAUGHTERED-240,912

Compared with 1958, cattle show a decrease of 2,584; calves an increase of 321; sheep and lambs an increase of 23,932; goats a decrease of 153; and pigs an increase of 114.

Carcases condemned from all causes in 1959, compared with 1958.

TABLE C 2

	I	Descript	ion		1958	1959
Cows					63	52
Heifers					26	17
Bulls				1000	4	1
Bullocks				1000	90	64
Calves					19	18
Sheep and	Lambs				576	871
Goats					34	16
Pigs					76	104
					888	1,143

Diseased conditions which involved seizure and total destruction of carcases in 1959.

TABLE C3

Port of the state of the state of	Cows	Heifers	Bulls	Bullocks	Calves	Sheep	Goats	Pigs	Total
Abcesses	_			1		1	_	- 11	10
Anaemia	_	_				6		11	13
Cysticercus Bovis		100	_	1		-			0
Decomposed	_	_	_			10		1	11
Dropsical	3	_	_	1	2	686	16	7	715
Fevered	6	1	-	2	1	41	-	7	58
Fibrosis			_	ī	-			1	2
Gangrenous	_		-		1 1 1 1	3			3
Injured	2	220	_	_	2	33		3	40
Immature	-	-	-	_	5	_		_	
Joint Ill				_	5 2	22			5 2 2
Leukemia	-		-	1	1			1	2
Neoplasms	1		192	200	3_3	7	_	6	14
Objectionable odour	-	_	-	1	_	-	_		1
Oedema	79-40		-	2	1	6	200	1	10
Pyaemia	1	-	-	3	_	1	_	22	27
Redwater	_		_	2	_	-2			2
Septicaemia	4	1	_	2	5	13	_	12	37
Septic Arthritis	-	_	_	_		22		3	3
Septic Mastitis	6		_	-	-	6	_	_	12
Septic Metritis	1		_	-	3_3	7	_		8
Septic Nephritis	-	_	-	_	-		_	_	
Septic Pericarditis	2		_	-	1	1		_	3
Septic Peritonitis	-	200	_	3	-	9	-	2	14
Septic Pleurisy	1		-	-	-	6	-	1	8
Septic Pneumonia	2	-	_	4	_	32	_	11	49
Swine Erysipelas	-	-	-	_	_	_	-	2	2
Toxaemia	1	1	-	-	-	3	_	2	7
Tuberculosis	22	14	1	40	-	-	-	9	86
Uraemia	-	-	-	-	-	-	-	2	2
The state of the state of	52	17	1	64	18	871	16	104	1,143

In addition to the above there were 3 tons 19 cwts. 2 qrs. 23 lbs. injured beef; 10 tons 6 cwts. 2 qrs. 1 lbs. other causes (tuberculosis, etc.); 7 tons 1 cwt. 2 qrs. 27 lbs. mutton; and 4 tons 3 cwt. 2 qr. 14 lbs. of pork seized as being unsound and unfit for human food.

TABLE C 4 Diseased organs seized and destroyed in 1959 compared with 1958.

			1959	1958	Increase	Decrease
Beef:	4					
Heads	 	 	1,627	1,729	-	102
Tongues	 	 	1,640	1,789	-	140
Hearts	 	 	446	465		29
Lungs	 	 *****	2,950	3,095	11202220	145
Livers	 	 	25,733	18,101	7,632	
Stomachs	 	 	563	680	-	117
Udders	 	 	447	727	-	280
Mesenteries	 	 	462	832	-	370
Omentum	 	 	496	632	77	136
Diaphrams	 	 	291	61	230	-
Kidneys	 	 	377	190	187	_
Mutton:		-				5586
Lungs	 	 	1,546	559	987	-
Livers	 	 	25,664	16,581	9,083	-
Kidneys	 	 	7	_	7	
Pork:						
Heads	 	 	89	26	63	1-
Hearts	 	 	40	14	26	1
Lungs	 	 	216	196	20	-
Livers	 	 	228	139	89	
Kidneys	 	 	49	68	-	19

The above does not include the viscera of animals totally destroyed.

Percentage incidence of generalised tuberculosis in animals slaughtered in 1959 compared with 1958.

#### TABLE C 5

				1959	1958
Cows		 	 	 .66	.94
Other Cattle		 	 	 .15	.13
Cattle (all clas	sses)	 	 	 .13	.18
Calves		 .,	 	 -	-
Pigs		 	 	 .26	.12

(This does not include cattle slaughtered under the attestation scheme).

Amount of beef, mutton, pork, etc., presented for examination

#### TABLE C 6

BEEF	512 sides, 1,331 quarters and 100 cuts examined; 8 cwts. 1 qr. 6 lbs. seized and destroyed.
MUTTON	1,620 carcases and 29 cuts examined; 2 carcases 2 qrs. 24 lbs. seized and destroyed.
VEAL	2 carcases examined; 26 lbs. seized and destroyed.
PORK	530 carcases and 111 cuts examined; 50 carcases and 10 cwts. 3 qrs. 6 lbs. seized and destroyed.
FOWL	39 examined; 29 seized and destroyed.
TINNED MEATS	137 examined; 173 seized and destroyed.
FISH	1 ton 13 cwts. 1 qr. 17 lbs. cod, plaice, etc., seized or surrendered.

#### CYSTICERCUS BOVIS

During the year cysticercus bovis infections were shown to be present to the extent of .97 of all bovines slaughtered at the Abattoir; compared with the previous year 1958 this shows an increase of .19.

During the year there was one instance in which the disease existed in a generalised form (Table C 3) the parasite being widely distributed throughout the carcase musculature.

This parasite is of great importance from a meat inspection aspect as it is communicable to man if the meat is eaten in a raw or improperly cooked state, giving rise to the tape worm (Taenia Saginata).

To my staff for their loyal support and manner in which they carried out their duties at all times, I say, "thanks".

ALEX. McLEAN, B.Sc., M.R.C.V.S., D.V.H.

#### REPORT OF SENIOR MEDICAL OFFICER, MATERNITY AND CHILD HEALTH DIVISION, FOR THE YEAR, 1959

#### Notification of Births Act.

The total number of births notified as occurring in the area during the year was 11,072. Of these 5,670 were males, 5,400 were females, 2 sex unknown; 251 were still births.

#### TABLE D 1

Total		 11,072
Home (Hosp. Dist. Cases)		 535
Home		 2,594
Other Institutions		 119
Private Nursing Homes		 339
Hospitals		 7,485
Births Occurring	n	1000

#### Infant Mortality

During the year, 274 children died under the age of 12 months giving an infant mortality rate of 33. The rate for the previous year was 30.

#### Neonatal and Perinatal Mortality

Deaths occurring during the first month of life numbered 182 giving a neonatal mortality rate for the year of 22. The rate for the previous year was 19. The perinatal rate, i.e. stillbirths and deaths during the first week per 1,000 total births (live and still), was 40 against 42 for the previous year.

#### Maternal Mortality

The number of women who died from pregnancy, childbirth and the puerperal state during the year was 2, giving a maternal mortality rate of 0.24 per 1,000 live births. The rate for the previous year was 0.36. Table D13 shows the Maternal Mortality per 1,000 live births analysed according to the cause of death.

#### Health Visiting

56 Health Visitors were employed at the end of the year.

The routine visitation and supervision of the health of infants and young children forms the main part of the work, but the after-care of ex-hospital patients and the follow-up of special cases also occupies a considerable portion of the health visitors' time.

Regular liaison visits are made once or twice weekly to hospitals by certain members of the staff, the information exchanged being most helpful. Some also attend the Child Guidance Clinic at the Royal Belfast Hospital for Sick Children.

The Health Visitors assist the Welfare Department in the administration of the Home Help Scheme as far as expectant mothers and mothers of young children are concerned, and a close liaison is maintained with that Department in many aspects of child care.

They had the opportunity of attending refresher courses during the year, and Dr. D. Gardiner, Psychiatrist, Purdysburn Mental Hospital very kindly gave several groups a series of lectures on Mental Health to make them better equipped for preventive work in this increasingly important field. Certain members continued to give lectures in connection with training courses for students.

During the year, following the merger of the Northern Ireland Tuberculosis Authority with the Northern Ireland Hospitals Authority the tuberculosis health visiting services in the city were transferred to this department. Eleven Health Visitors were engaged on these duties, and continued to work from the Central Clinic in Durham Street.

Visits paid during the year were as follows:-

- (1) To expectant mothers: First visits, 1,188; Re-visits, 1,567; Total 2,755.
- (2) To children under one year of age: First visits, 8,062; Re-visits, 48,228; Total, 56,290.
- (3) To children between 1 and 5 years: 70,813.
- (4) To Tuberculosis cases, 17,886 (9 months only).

#### Ante-Natal Clinics

As the great majority of expectant mothers attending the Ante-Natal Clinics make arrangements through the clinics for their confinement in hospital the Clinic Medical Officer maintains close contact with the hospitals. At the Royal Maternity Hospital she also assists at one of the Ante-Natal sessions, and is a member of the Honorary Medical Staff.

Specimens of blood are taken for Group, Rh factor, Wasserman, etc., and arrangements are in operation whereby private medical practitioners can refer their cases to the clinics for these tests. Some medical practitioners also refer abnormal cases for a second opinion.

Instruction in Analgesia and in relaxation has been continued in combination with a special series of Mothercraft talks. These are open to all ante-natal cases irrespective of whether they are attending for ante-natal supervision or not.

#### Clinics and Attendances:

#### TABLE D 2

				1st Visit	Re-visits
Grovefield School, Mount Str	eet, mo	orning	 	63	719
do.	aft	ternoon	 	133	882
Mersey Street, Church Hall			 	80	638
Mountcollyer Street			 	50	429
Spier's Place, Shankill Road			 	82	641
Ariel Street			 	94	692
Hawthorne Street (R. M. Ho	sp.)		 	125	1,041
				627	5,042

1,654 Blood Tests were carried out during the year.

#### Child Health Centres

The number of sessions provided at the end of the year was 36 per week.

As there is still no alternative accommodation available a number of the sessions continue to be held in very unsuitable premises.

The talks to mothers with film strip illustrations were continued during the winter months and special stress was again placed on the prevention of accidents. In addition, members of the Health Visiting Staff addressed meetings of several organisations on Health topics.

Our thanks are again due to the members of the Voluntary Workers' Association for their valuable assistance throughout the year.

ages of the						Under 1 year	Over 1 year
Highfield	(Monday)					1,391	690
York Street	,,					1,720	668
Ariel Street	,,					2,629	1,031
Bloomfield	,,					3,930	1,491
Stranmillis	,,					2,997	1,001
Donegall Road	,,				The state of	2,740	864
Glenard	(Tuesday)		- C	The second	1	3,075	1,079
Havelock Place	,,				-	2,774	954
Mersey Street	,,					2,700	848
Donegall Road	,,					2,203	622
Bread Street	A TOTAL					1,729	688
Woodstock	"			- 1000		3,071	1,009
Ariel Street	"					3,477	1,290
Avoca Street	(Wednesday)					1,601	431
Bread Street						2,223	784
Ligoniel	"					1,662	577
Seaview	"		-			4,492	1,397
Windsor				1.00		2,755	660
Woodstock	"					3,051	1,141
Palmerston Road	"					1,735	557
Avoca Street	(Thursday)					3,603	1,177
	(Thursday)	**					
Kimberley Street	"			**		3,544	1,551
Greencastle	"				**	2,795	1,549
Mountcollyer	"		**			2,812	980
Spier's Place	"					2,997	1,005
Bread Street	"					2,571	1,338
Susan Street	"				**.	3,871	1,679
Woodstock						3,762	1,364
Malone	(Friday)					1,036	1,269
Ariel Street	"				**	1,997	404
Bread Street	,,					1,872	750
Joanmount	,,					2,674	932
Spier's Place	"					1,937	605
Sydenham	,,					4,125	1,084
Woodstock	"					2,222	913
Ballymurphy	"			***		1,605	888
THE REAL PROPERTY.	Total A	ttend	ances			95,378	35,250

#### Mother and Baby Homes (Ante and Post-Natal Hostels)

#### TABLE D 4

Name and address of					Average length of stay			
Home or Hostel	Ante- Natal	Post- Natal	Labour	Isola- tion	Maternity (excluding labour and isolation)	Cots	Ante- Natal	Post- Natal
(a) Hopedene	3 9	11 4	_ 2	1		11 16	4-6 weeks 8 weeks	8 weeks 17 weeks

The total number of City cases admitted during the year was 20.

These hostels are in receipt of a grant from the Health Committee.

#### Residential Nurseries

#### TABLE D 5

	What has been store	Number of Beds provided at the end of year						
Name and address of Nursery	Whether long stay or short stay	stay Aged 10 mth Aged G	Girls over 5	Boys over 5				
Glendhu Hostel Holywood Road  (A voluntary Hostel in receipt of a grant from the Health Committee).	Short Stay	22	18	19	23	24		

106 children resident in Belfast were admitted to the Hostel during the year.

#### Communicable Diseases

#### TABLE D 6

	Ophth	Ophthalmia Neonatorum		(2) Pemphigus Neonatorum		(3) Puerperal Fever		(4) Puerperal Pyrexia	
	Dom. Confine- ments	Instit. Confine- ments	Dom. Confine- ments	Instit. Confine- ments	Dom. Confine- ments	Instit. Confine- ments	Dom. Confine- ments	Instit. Confine- ments	
Number of cases notified during year	_	_	-	_		I	2	19	
Number of cases visited by Officers of the Local Authority	_	-	_	_	-		2	16	
Number of cases—Home Nursing Provided	_	_	_				1		
Number of cases removed to hospitals	-	-	-	-	-	-	1	-	

#### Midwives

#### TABLE D7

	Domiciliary Midwives	Company of the Compan	Midwives in Hospitals	Midwives in Nursing Homes	Total
Total number of Midwives practising at the end of the year in the area of the Local Supervising Authority	52	32	128	9	221

Number of cases in which Medical Aid was summoned during the year under Section 22 of the Midwives (Ireland) Act, 1918, by a midwife:—

Nil

#### Domiciliary Midwives

22 midwives were employed on a salaried and 23 on a fee-per-case basis. Progress continues to be slow in recruiting sufficient midwives to enable the service to be placed entirely on a whole-time salaried basis. Two hostels are now in operation, one in Springfield Road and the other in Templemore Avenue. The Templemore Avenue Hostel provides for a number of resident pupil midwives.

Allowances to cover uniform, laundry and travelling are granted, the uniform being that laid down by the Joint Nursing and Midwives Council. Equipment is issued on loan, and all drugs, dressings, etc., in use are supplied to the midwives.

Special cots, etc., for the care of premature babies are available. The trend however is for these babies to be admitted to the special nurseries attached to the two large maternity hospitals in the City.

Refresher courses are arranged from time to time.

The midwives attended a total of 2,419 domiciliary cases during the year.

#### Maternity Medical Services

General Medical Practitioners agreeing to provide maternity medical services in domiciliary cases are enrolled on a panel maintained in the department and are paid on a fee-per-case basis. Both the doctor and the midwife are employed by the Health Committee.

The following is a summary of the work carried out under the scheme by Medical Practitioners during the year:—

#### TABLE D8

Number of domiciliary confinements at which General Practitioner atter	nded		3,126
Number of women confined at home who were examined ante-natally			2,992
Total number of ante-natal examinations made of women confined at h	ome		24,053
Number of women referred to institutions for confinement who were	examined ante	-natally	452
Total number of ante-natal examinations made of women confined in in	stitutions		3,064
Total number of final pelvic examinations made of women confined at l	nome		2,798
Total number of final pelvic examinations made of women confined in i	nstitutions		212
Number of cases of abortion attended			581
Number of anaesthetics given by second practitioner			51

#### Registration of Nursing Homes

#### TABLE D 9

	Number of Homes —	Number of beds provided for:—				
	Number of Homes	Maternity	Dual Purposes	Total		
Homes first registered during the year	_	-	-	-		
Homes on the register at the end of the year	10	42	42	84		

#### Action during 1959:

Number of applications for registration refused				-
Number of exemptions granted			**	-
Number of exemptions withdrawn				-
Number of registrations cancelled	**	::		
Number of appeals by aggrieved persons to	a Court	of Sun	mary	
Jurisdiction				
Number of cases in which fines were imposed				02
Number of inspections				93
Number of registered homes not inspected				-

The inspections during the year were made by the Clinic Medical Officer, the Superintendent Nursing Officer, and the Assistant Superintendent Nursing Officers.

Deaths of Infants under one year associated with prematurity, and, in the post-natal period associated with diarrhoea and enteritis, pneumonia, broncho-pneumonia, and bronchitis

Rate per 1,000 Births 10.8 4.1 1.4 1959 12 90 34 Deaths Rate per 1,000 Births 10.3 1.6 5.4 1958 13 45 85 Deaths per 1,000 Births 10.8 1.2 3.1 Rate 1957 10 26 Destpa 91 Rate per 1,000 Births 6.45 3.41 0.97 1956 00 28 53 Deaths per 1,000 Births 9.62 3.58 4.32 1955 Rate 35 78 29 Deaths per 1,000 Births 2.89 5.90 8.91 Rate 1954 49 Deaths 74 24 per 1,000 Births 9.85 7.62 6.57 Rate 1953 Desths 65 56 84 Rate per 1,000 Births 12.69 6.70 4.70 1952 108 40 Deaths 57 Rate per 1,000 Births 5.12 11.61 5.91 1951 102 Deaths 45 52 Rate per 1,000 Births 12.11 4.19 96.6 1950 Desths 107 37 88 Pneumonia, Broncho-Pneumonia and Bronchitis .. .. Diarrhoea and Enteritis Prematurity

		Under 1 M	Ionth		1-	11 Months			Under Tear
CAUSES OF DEATH	Males	Females	Total	Rate per 1,000 live births	Males	Females	Total	No.	Rate per 1,000 live births
Tuberculosis of Respiratory System	-	-	-	-	-	-	-	_	_
Tuberculosis, other Forms	-	-	-	-	-	-	-	-	-
Dysentery	1	-	1	0.12	1	-	1	2	0.24
Scarlet Fever and Streptococcal sore							100		
throat Typhoid	1		1		-	-	100	-	-
Typhoid			-	-	T	_		-	-
Diphtheria Whooping Cough		1	1	0.12	6		-6	7	0.04
Meningococcal Infections		1	1	0.12	0	4 10	0	1	0.84
Meningococcal Infections Measles					1		1	1	0.12
Other Infectious and Parasitic Diseases	_	_			î		î	1	0.12
Benign and Unspecified Neoplasms	_	-	_		-		-	-	0.12
Vascular Lesions affecting Central							100		
Nervous System	-	-	_	-	_	1	1	1	0.12
Non-meningococcal Meningitis	1	-	1	0.12	-	_		1	0.12
Other Diseases of Heart	_	_	_	-	-	-	-	_	_
Influenza	-	-	_		2	-	2	2	0.24
Pneumonia	-	-	-	-	18	16	34	34	4.06
Dionemeis		-	-	-	-	-	-	-	-
Intestinal Obstruction and Hernia	-	-	-	-	2	1	3	3	0.36
Gastritis, Duodenitis, Enteritis and								76	-
Colitis, except Diarrhoea of the		100000		may ?	7	-	12	10	144
new born			-	-	7	5	100000	12	1.44
Nephritis and Nephrosis			0.5		- 55	1000	70		
Congenital Malformations	19	18	37	4.42	8	11	19	56	6.69
Birth Injury, Post-natal Asphyxia	19	10	31	4.44	0	11	13	00	0.03
and Atelectasis		The same of		10000		12.2		Branch !	300
(a) with prematurity	11	9	20	2.39		1942	-	20	2.39
(b) without prematurity	20	10	30	3.58	20-21	1	1	31	3.71
Infections of New-Born								100000	
(a) with prematurity	-	1	1	0.12		-	-	1	0.12
(b) without prematurity	5	5	10	1.19	-	-	-	10	1.19
Other Diseases peculiar to Early		The Party of		1000				100	1
Infancy		The same of		The same of			10000		
(a) with prematurity	31	38	69	8.25	-	1 77	-	69	8.25
(b) without prematurity	6	3	9	1.07	1	1	2	11	1.32
All other Causes	1	-	1	0.12	4	3	7	8	0.96
Accidents	1	-	1	0.12	-	2	2	3	0.36
Unknown Causes	-	-	1	0.10	-			1	0.12
Homicide and Operations of War	1			0.12	-		- Company	1	0.12

## Infant Mortality (By Age Groups)

## TABLE D 12

Sex	Under 1 day	1 day and less than 7 days	1-4 weeks	1-2 months	2-3 months	3-6 months	6-12 months	Total	Deaths of Illegitimate children
Males Females	 53 50	34 23	10 12	8	9	24 12	14 15	148 126	4
Total	 103	57	22	12	15	36	29	274	8

Cause of Death	No. of Deaths	Rate per 1,000 live births
Acute Fulminating Eclampsia	1	0.12
Mesenteric Thrombosis; Pre-Eclamptic Toxaemia; Acute Fatty Metamorphosis of Liver	1	0.12

#### Infant Mortality Rate, 1940-1959

#### TABLE D 14

YEAR			Deaths per 1,000 Births	YEAR		Deaths per 1,000 Births
1940	 		122	1950	 	 49
1941	 		91	1951		 44
1942	 		92	1952	 	 47
1943	 	1.0	111	1953	 	 45
1944	 		89	1954		 39
1945	 		84	1955	 	 37
1946	 		61	1956	 	 29
1947	 		60	1957	 	 32
1948	 		45	1958	 	 30
1949	 		56	1959	 	 33

#### Home Nursing Service

The Home Nursing Staff consists of 1 Superintendent, 1 Assistant Superintendent, 45 Queen's Nurses and 7 trainee staff.

There were 13 nurses in training during the year. 11 were Staff candidates and 2 were County candidates. The training remains at a high standard and several of the candidates obtained credits in various subjects at the examination.

The Superintendent attended a Training Conference arranged by the Queen's Institute of District Nursing on 12/13th June.

4 District Nurses attended a refresher course held in Belfast on 13/18th March.

The total number of visits paid during the year was 218,848, in comparison with 219,578 in 1958.

Sick room requisites such as Dunlopillo mattresses, air cushions, bed-rests, rubber sheeting, bed-pans, etc., are sent out to patients on loan when required.

	(i) (ii)	Brought forward from						1,299
	(ii)	New cases taken on du				4.4	**	4,868
		(Analysis of new cases:						
		Tuberculosis	181					
		Cancer	322					
		Diabetes	75					
		Gynaecological	27					
		Pneumonia	55					
		Surgical	617					
		General Medical	3,591)					0.20
	(iii)	Removed during 1959						4,74
		(Cause of removal:-	100000					
		Convalescent	2,735					
		Died	598					
		To Hospital	887				F (1)	
		Other Causes	522)				100	1 40
	Rema	aining on books at end o	1 1959	**	1000	**	**	1,42
В.	Anal	ysis of Visits made to all	cases in 19	59:—				
-		Tuberculosis	9,930					
		Cancer	15,904					
		Diabetes	28,370					
		Gynaecological	1,335					
		Pneumonia	674					
		Surgical	21,408					
		General Medical	141,227					
		Total Visits	218,848					

#### AFTER-CARE

The Committee's scheme for dietetic assistance continued during the year. Assistance is given up to a period of six weeks after discharge from Hospital during which time the National Assistance Board, to whom each case is referred, arranges for its continuance from central funds if necessary. The total number of cases dealt with was 126. Women over 60 and men over 65 are excluded from the scheme and are dealt with by the National Assistance Board.

The transfer of the functions of the Northern Ireland Tuberculosis Authority extended the scheme to those persons recommended by chest physicians and one pint of milk is supplied daily. During the nine months from 1st April, 723 persons received milk under the scheme. Cases are reviewed periodically by the chest physician who recommends the continuation or cessation of supplies.

#### MEDICAL COMFORTS

The transfer of the functions of the Northern Ireland Tuberculosis Authority also placed on the Committee the duty of providing beds, bedding and other sick room requisites for T.B. patients discharged from Hospital for home nursing. During the nine months 43 persons were issued with beds, etc. in addition to the 79 persons who had after-care equipment on loan at the date of the service being handed over.

In conclusion I would like to express to the members of the staff my sincere appreciation of the excellent manner in which they discharged their duties thorughout the year.

H. A. WARNOCK, M.D., B.Sc., D.P.H.,

Senior Medical Officer

#### REPORT OF THE SENIOR MEDICAL OFFICER, SCHOOL HEALTH DIVISION, FOR THE YEAR 1959

#### **Belfast Grant-Aided Schools**

Section 42 of the Education Act (N.I.) 1948, as amended by the Education (Amendment) Act (N.I.) 1956, lays on the local authority's health committee the duties of providing for medical inspection and treatment of all pupils attending grant-aided schools in their area; these duties are carried out by the School Health Service. In Table E 1 are shown the different types of grant-aided schools in the City of Belfast and the number of pupils attending them.

The closing of old and obsolete buildings continues, and several modern schools to replace them were opened during the year. Thus, Table E 1 shows a reduction of one county primary and two voluntary primary schools in 1959 compared with 1958, and the opening of a county secondary, a special and two voluntary secondary schools. The number of pupils with whom we have to deal rose slightly again this year to 81,251 on roll at 31st December.

#### Staff

For a large part of 1959 our staff of medical officers was reduced from twelve to ten and so the relevant tables in this report show a corresponding reduction of about one sixth in the work done as compared with the previous year.

Shortage of qualified Health Visitors continued in 1959 but we had no difficulty in recruiting good nurses without the Health Visitor's certificate to fill vacancies. Two of these nurses from the School Health Service were seconded in September to the Health Visitors Training Course at the Royal College of Nursing for a period of about nine months; temporary replacements were engaged to continue the work of these seconded nurses.

Speech therapists continue to be very scarce. Though our establishment provides for five and a half therapists, throughout the year we had only one full-time therapist on our staff; this lady resigned on marriage at the end of the year and could not be replaced. The equivalent of one full-time speech therapist was also provided throughout the year by the Northern Ireland Hospitals Authority in the form of eleven sessions per week from three therapists on the staff of the Royal Belfast Hospital for Sick Children who did part-time work in our school clinics. Two other therapists who are married women worked one or two sessions per week in the clinics when they could find someone to care for their own young children. The secondment of suitable girls to speech therapy training centres by the health committee appears to be the only solution to this chronic shortage.

#### School Medical Inspections

Owing to our depleted medical officer staff the total number of medical inspections in 1959 was 30,722, some 4,600 fewer than in 1958. Routine medical inspections were reduced by about 4,000 and re-examinations by about 600; special examinations of children referred by the teacher were almost the same number as last year at 579.

We abandoned Group V altogether as one of the least fruitful groups in which to find defects and we reduced the inspections of nursery schoolchildren by more than half. These nursery children are normally examined each term, but we felt unable to do this in 1959; each child was examined at least once during the year. Group 1, the entrants, being the most important of the compulsory groups under present regulations, was examined in full, while the other groups were not completely covered (Table E 2).

Table E 4 shows the attendance of parents at routine medical inspections. In 1959, 42.5% of the examinations were made in the presence of a parent, a welcome increase of 2.2% over the previous year. As usual the parents attend better at primary than at secondary schools, better for younger than for older children, and better for girls than for boys.

The value of routine medical examinations continues to be questioned in the medical press and elsewhere, but these doubts are usually cast by persons not themselves engaged in the routine examination of ostensibly healthy children. Our medical staff are all agreed that routine medical inspection has a valuable part to play in child health and would be reluctant to abandon this measure unless it were replaced by a more efficient substitute.

For the past few years we have noted the action found to be necessary as a result of routine medical inspection as distinct from the defects found on inspection. A table showing this necessary action has been given in our annual report since 1956, and is again published this year, Table E 11.

This table indicates the formidable total of 4,113 items found to need some attention not already being given; it does not include all children who have defects—these are shown in Table E 7—nor does it include children whose defects are already being adequately treated. This picture confirms our findings of the past few years. We discover annually 4,000 to 5,000 defects for which the School Health Service has to initiate some treatment, and this means that we need to do something for one out of every 4 or 5 children examined as a routine and not referred because of suspected trouble.

A valuable feature of the present system which can hardly be reduced to statistics is that it gives the opportunity for health education in perhaps its most effective form, namely on a personal basis. Each year on countless unrecorded occasions advice is given by the doctor to parent or child when they meet for a routine examination, innumerable questions from parents and children are answered, and discussions take place on topics ranging from porridge for breakfast to television at bedtime. Many parents seize on the school doctor's routine examination to voice fears and problems which they think would be considered too trivial to warrant a visit to their family doctor; often the school doctor is able to dispel bogies and superstitions which have been a longstanding worry, or conversely he may find in these apparently trivial matters the seeds of serious trouble-to-come and be able to take preventive action.

This type of work is very difficult to record and measure, but those of us who practice it are convinced of its merits. Of course the doctor is unable to do this kind of therapy in a hurry and we are much in favour of amendments to the legislation which would give us more freedom to deal with inspections in our own way without removing the obligation on parents to submit their children for examination on request. Our experience of the relatively few cases of refusal to submit to medical examination over the past twelve years indicates that the refusal always has a cause which, far from making the examination unnecessary, makes it essential. The refusals tend to come on the one hand from autocratic child mis-managers who do not wish us to see the maladjusted products of their misrule, and on the other from well-meaning but over-protective parents anxious to spare their children from imagined horrors involved in the correction of a hernia or other treatable abnormality.

The legislation in England and Wales provides that local authorities may, if they wish, have the Ministry's approval to experiment with other methods than routine medical inspection for age groups older than entrants. As we said in the 1957 annual report, we in Belfast would welcome a similar change in the statutory requirements here.

#### Heights, Weights and Nutrition

Last year's figures for the average heights and weights of boys and girls showed that the small steady increase which had been in evidence for at least ten years had halted, and although at some ages the averages were slightly higher than in 1957, more often a slight fall occurred. On comparing this year's figures with 1958 we again find at some ages an increase and at some a fall in the averages, but on the whole the general tendency is once again upwards (Table E 3).

As usual this year's table of nutrition shows very few badly undernourished children (Table E 6).

#### Defects discovered at Routine Medical Inspections

This year we found 270 children per thousand to have more or less defective vision (Table E 7). But although more than a quarter of all children examined have less than perfect vision, they have improved over the past few years according to the numbers defective per thousand examined:—1956—319; 1957—312; 1958—294; 1959—270. The greatly improved standards of school buildings; their better design, siting, internal decoration, and lighting; must have something to do with this.

We found 39.5 children per thousand to have a squint, about the same proportion as in previous years, and a figure typical of industrial areas throughout the British Isles. The greater number of these squints are found in children from primary schools, 42 per thousand, and only 24 per thousand in secondary school children.

Apart from defects of psychological development which show a substantial reduction, all other defects in Table E 7 occurred with almost exactly the same frequency as in 1958.

Table E 8 sets out the distribution of defects of visual acuity with and without glasses. Table E 9 shows defects of colour vision.

#### Tuberculin Tests and B.C.G. Vaccinations

In Table E 10 are shown the results of tuberculin tests of schoolchildren at routine medical examinations. No children tested in this Table had had B.C.G. vaccinations, and so the last column gives

an estimate of the rate of naturally acquired positive reactions. This rate has been falling over recent years, reflecting a fall in tuberculous infection throughout the community. This year's 12.9% positive tuberculin reactors compares with last year's 15.4%.

In addition to those children tested at routine medical inspections with a view to B.C.G. vaccination, a number of tests were made in the school clinics at the request of parents. With the winding up of Northern Ireland Tuberculosis Authority in April, 1959, the responsibility for B.C.G. vaccination fell directly on the health committee, whose programme of vaccinations had hitherto been carried out as agents of the Tuberculosis Authority. The School Health Service has now undertaken the vaccinations at an increased number of schools and other establishments, and of volunteers requesting vaccination at any age. We also deal with record keeping in connection with B.C.G. vaccinations and tuberculin reactions of Belfast residents.

During 1959 retesting of 80 children vaccinated at various times up to six years ago was done, and in no case was a reversion to negative reaction found.

#### Handicapped Pupils

An increase of about 150 in the number of pupils classed as educationally subnormal occurred in 1959 (Table E 14). Rather more children are now regarded as partially deaf and fewer as totally deaf; there are fewer epileptics and a few more maladjusted and physically handicapped pupils. We think that ascertainment in all categories other than educationally subnormal and maladjusted is not far from complete.

Table E 15 shows the frequency with which the various handicaps coincide with one another in the same child. The figure at the foot of each column is the sum of the figures, if any, appearing above and to the left of it; it indicates for the handicap named at the top of the column the number of times that handicap is found in association with any other amongst our 3,322 handicapped Belfast pupils. The figures other than those at the foot of each column show the number of times given pairs of handicaps coincide.

Multiple handicaps occur often and they present very difficult problems of education and treatment. About one in eight handicapped pupils has more than one handicap, and these are usually due to a common cause damaging more than one part of the body.

Special schools in Belfast underwent further development during the past year and plans for the future are in hand. A new school for junior educationally subnormal pupils was opened at Harberton and the two existing schools, Mount Vernon and Oakleigh, were reorganised as schools for the senior educationally subnormal. The new school includes housemothers on the staff, so that young retarded pupils can be handled who would otherwise have to remain at home until more mature, and retarded children with additional handicaps can more easily be admitted. A housemother has been added to the staff at Graymount Open Air School where she is kept very busy and relieves the teachers of many time-consuming tasks. At Fleming Fulton School where our spastics and other physical handicaps are dealt with another class was added, bringing the roll to 56 pupils. There is still a waiting list for admission, and plans to enlarge the school and add residential accommodation are being prepared. The open-air-school at Graymount is also to be rebuilt shortly.

A special class in a normal school is to be established soon to deal with partially deaf children whose handicap is not severe enough for a special school, but who need help to keep up with their fellows.

#### Clinics

The School Health Service has waited long for new clinic accommodation which would give the facilities needed to attract both patients and staff. This year work was commenced on the building of our first new clinic at Cupar Street in west Belfast and is expected to be completed before the end of 1960. The plans are also well advanced for the second new clinic which will be built on a site already acquired at Lincoln Avenue. In the design and equipment of these clinics our committee and the Ministry of Health have given us virtually everything that we asked for and the architectural staff of the City Surveyor's department have produced plans for beautiful and modern buildings to the completion of which we look forward with great pleasure.

A. L. WALBY, M.B., D.P.H.,

Senior Medical Officer.

#### Belfast Grant-Aided Schools

#### TABLE E 1

	Number	Pupils		
	Nursery Schools and Classes	**	10	346
Primary;	County Primary Schools Voluntary Primary Schools under Lay Manager Voluntary Primary Schools under Roman Catholic Management		72 1 63	30,599 207 20,088
	[Special Schools		9	948
Secondary;	County Secondary Schools		18 19 3	13,569 13,518 1,976

<sup>‡</sup> These groups of schools are considered separately where possible in the following tables.

#### School Medical Inspections

Type of School	Sex	10 10 10 10	Routines						Re- exami- nations	Totals	
		Age Groups				Totals		Specials			
		Nursery	Entrants	II	III	IV	v		0230000		
Primary	Boys	239	3,438	764	2,524	296	-	7,261	264	5,336	12,861
	Girls	169	3,306	790	2,356	275	1	6,897	211	4,315	11,423
	Boys	_	86	78	484	1,154	-	1,802	61	1,779	3,642
Secondary Schools	Girls		134	136	414	790	-	1,474	43	1,279	2,796
Totals	Both	408	6,964	1,768	5,778	2,515	1	17,434	579	12,709	30,722

These schools conduct their own schemes of medical and dental inspection and treatment under the provisions of Section 42 (6) of the Education Act (N.I.), 1947.

<sup>†</sup> Includes preparatory school in most cases.

#### TABLE E 3

Age	Number Examined		Average Weight Pounds		Average Height Inches	
	Primary	Secondary	Primary	Secondary	Primary	Secondary
4	415	23	39.3	43.8	41.1	43.6
4 5 6 7 8 9	2,054	58	42.0	45.2	42.8	44.8
6	970	5	45.5	46.6	44.6	45.3
7	107	2	49.8	66.0	46.7	51.3
8	53	5	56.7	63.8	49.7	51.5
9	608	72	64.4	69.8	52.3	54.2
10	1,551	109	69.7	77.3	53.7	55.8
11	596	20	71.6	78.5	54.7	55.3
12	377	355	80.0	93.5	56.9	59.5
13	223	814	90.5	98.3	59.0	61.3
14	64	330	95.9	106.1	60.6	62.4
15	4	9	117.5	94.1	63.3	60.7
16	-	67 1-1		_	-	_
17	-	-	-	_	-	-
18 19	-				-	-

#### Girls

Age	Number Examined			e Weight ounds	Average Height Inches	
	Primary	Secondary	Primary	Secondary	Primary	Secondary
4	437	43	39.4	41.7	40.5	42.2
5	1,889	77	40.4	43.6	42.5	44.0
6	968	12	43.2	47.2	44.2	46.4
7	150	17	46.0	54.8	45.6	48.5
8	53	32	54.5	66.5	49.6	52.6
9	597	90	63.3	69.2	51.9	53.6
10	1,388	104	67.6	75.2	53.3	54.8
11	512	38	74.0	85.5	55.0	58.6
12	459	271	83.8	95.8	57.6	60.3
13	218	535	93.8	103.5	59.1	61.3
14	48	247	103.3	105.9	61.4	61.9
15	8	8	102.3	142.5	61.1	59.8
16	1	-	108.0		59.0	05.0
17	-		_			
18	-	-	- 7			
19						

## Attendance of Parents at Routine Medical Inspections

Age	Prir	nary	Secondary			
Group	Boys	Girls	Boys	Girls		
Entrants II III IV V	2,352 (68.4%) 321 (42.0%) 813 (32.2%) 31 (10.5%)	2,280 (69.0%) 429 (54.3%) 978 (41.5%) 30 (10.9%)	36 (41.9%) 18 (23.1%) 24 (5.0%) 37 (3.2%)	63 (47.0%) 39 (28.7%) 41 (9.9%) 30 (3.8%)		
Totals	3,517 (50.1%)	3,717 (55.2%)	115 (6.4%)	173 (11.7%)		
	7,32	4 (53.3%)	288	(8.8%)		

# Vaccination

2,067 (30.7%) 4,205 (30.6%) 2,138 (30.4%) 389 (21.6%) 343 (23.3%) 4,937 (29.0%) Unsatisfactory 732 (22.3%) Number Totals Number No. Unsatisfactory Exa-13,750 17,026 mined 7,022 6,728 1,802 1,474 3,276 > No. Number No. Exa-mined mined mined 87 (31.6%) 90 (30.4%) 645 (25.6%) 177 (31.0% 256 (22.2%) 212 (26.8% 468 (24.1% 1 296 790 275 1,634 (28.3%) 2,515 571 108 (22.3%) 1,154 189 (21.0%) 1,944 Number Unsatisfactory 795 (31.5%) 650 (27.6%) 1,445 (29.6% %9'61) 18 H Number No. Unsatisfactory Examined 868 406 (26.1%) 4,880 414 (24.7%) 5,778 484 211 (26.7%) 2,356 195 (25.5%) 2,524 12 (15.4%) 19 (14.0%) 31 (14.5%) 437 No. Number No. Exa- Unsatisfactory Examined 790 78 136 214 1,768 764 2,177 (32.3%) 1,554 (31.9%) 31 (23.1%) (20.0%) 13 (15.1%) 1,058 (30.8%) 1,119 (33.8%) Entrants 44 2,221 mined 3,438 3,306 6,744 86 134 220 6,964 Boys Boys Girls Both Both Both Girls Sex Secondary Type of School TOTALS Primary

## Nutrition

20 23 BAD (C) (0.1%) (0.2%) (0.4%) (0.1%) (0.2%) Boys 12 53 3 01 16 (8.4%) (3.7%) (8.0%) (8.9%) (3.7%) (5.9%) (2.4%) (3.2%) 339 (10.3%) Girls SUB-NORMAL (B) 45 447 63 12 12 19 48 (2.0%) (%6.9) (1.2%) (2.3%) (1.3%) (8.8%) (4.7%) (3.5%) (4.2%) (7.2%) Boys 249 40 177 480 33 14 9/2 41 2,944 (89.1%) (%6.96) (91.2%) (96.3%) (91.8%) (91.1%) 1,178 (96.2%) (%9'.26) (96.7%) Girls 4,846 129 724 123 694 1,422 401 I NORMAL (A) (95.9%) (95.3%) 3,174 (92.4%) (98.8%) (94.6%) (98.7%) 2,340 (92.9%) (93.2%) (96.3%) (95.7%) Boys 85 450 723 282 1,110 6,519 77 1,722 Secondary Secondary Type of School Secondary Secondary Secondary Secondary Primary Primary Primary Primary Primary Primary Entrants TOTALS Age H M H > 103

(0.1%)

(0.5%)

(%9:0)

Girls

(0.2%)

5

(0.4%)

(0.1%)

Defect	Ty o Sch	f	Defective for Treatment	Per 1,000	Defective for Observation	Per 1,000
Skin	Primar Second Total		90 18 108	6.6 5.5 6.3	152 46 198	11.1 14.0 11.6
Eyes (a) vis		ary	1,299 339 1,638	94.5 103.5 96.2	2,430 635 2,965	176.7 193.8 174.1
(b) squ		lary	180 16 196	13.1 4.9 11.5	414 62 476	30.1 18.9 28.0
(c) oth	ner Primar Second Total		48 12 60	3.5 3.7 3.5	113 17 130	8.2 5.2 7.6
Ears (a) hea		ry lary	124 14 138	9.0 4.3 8.1	156 8 164	11.3 2.4 9.6
(b) oti	tis media Prima Second Total		$\frac{21}{21}$	1.5 — 1.2	72 10 82	5.2 3.1 4.8
(c) oth		ry lary	57 6 63	4.1 1.8 3.7	34 6 40	2.5 1.8 2.4
Nose and Throat	Prima Second Total	ry dary	256 29 285	18.6 8.9 16.7	1,631 104 1,735	118.6 31.7 101.9
Speech	Prima Second Total	dary	68 10 78	5.0 3.1 4.6	219 16 235	15.9 4.9 13.8
Cervical glands	Prima Second Total	ry dary	22 3 25	1.6 .9 1.5	172 4 176	12.5 1.2 10.3
Heart and circulation		dary	75 11 86	5.5 3.4 5.1	207 25 232	15.1 7.6 13.6
Lungs (a)	Prima Second Total	ry dary	157 33 190	11.4 10.1 11.2	308 56 364	22.4 17.1 21.4
(b) pu tul	lmonary berculosis Prima Second Total	dary	$\frac{2}{2}$	1	7 2 9	.5 .6 .5
Development	Prima Secon Total	ry dary	16 1 17	1.2 .3 1.0	36 2 38	2.6 .6 2.2
Orthopaedic (a) po	sture Prima Second Total	ry dary	88 24 112	6.4 7.3 6.6	30 6 36	2.2 1.8 2.1
(b) fee		ry dary	193 67 260	14.0 20.5 15.3	184 54 238	13.4 16.5 14.0
(c) oth	her Prima Secon Total	ry dary	23 13 36	1.7 4.0 2.1	81 18 99	5.9 5.5 5.8

TABLE E 7 (continued)

Defect	Type of School	Defective for Treatment	Per 1,000	Defective for Observation	Per 1,000
Nervous System (a) epilepsy	Primary	4	.3	29	2.1
	Secondary	1	.3	1	.3
	Total	5	.3	30	1.8
(b) other	Primary	6	.4	17	1.2
	Secondary	1	.3	4	1.2
	Total	7	.4	21	1.2
Psychological (a) development	Primary	21	1.5	100	7.3
	Secondary	1	.3	2	.6
	Total	22	1.3	102	6.0
(b) stability	Primary Secondary Total	$\frac{12}{12}$	9 7	16 2 18	1.2 .6 1.1
Tuberculosis—non-pulmonary	Primary Secondary Total	1 1	1 1	- 8	6 .5
Other defects	Primary	192	14.0	383	27.9
	Secondary	36	11.0	57	17.4
	Total	228	13.4	440	25.8

The numbers of children examined were:—Primary 13,750; Secondary 3,276; Total 17,026.

The visual acuity could not be accurately assessed in 316 primary and 7 secondary schoolchildren; for "Eyes (a) vision", therefore, the numbers examined were:—Primary 13,434; Secondary 3,269; Total 16,703.

TABLE E8

(a) Primary schoolchildren without glasses

Visual Acuity

Rig	Tot	4	61	-						6
	09/9>	5	1	1	-	-	-	1	7	10
	09/9	2	1	-	1	1	-	-	1	w
	96/9	14	5	2	1	1	5	1	1	28
	6/24	13	4	1	2	9	8	1	1	30
Left Eye	81/9	10	10	17	28	4	2	1	1	72
7	6/12	29	25	47	20	5	2	2	1	130
	6/9	74	111	35	13	00	3	2	1	247
	6/6	294	43	28	11	00	œ	3	2	397
	Visual Acuity	9/9	6/9	6/12	81/9	6/24	98/9	09/9	09/9>	Totals
Co Term			1	191159	Right	267				Left
Right Eye	Cotals	0,827	1,294	486	333	193	181	54	99	13,434
Right	<6/60 Totals	14 10,827	4 1,294	- 486	2 333	2 193	2 181	2 54	46 66	72 13,434
Right	6/60 <6/60 Totals	14								
Right	-	14		1	61	2	2	2	46	72
Right	09/9	16 14	4	2 -	2 2	4 2	7 2	26 2	3 46	64 72
	09/9 98/9	37 16 14	17 4 4	14 2 —	10 2 2	18 4 2	69 7 2	5 26 2	2 3 46	172 64 72
Right Eye	6/24 6/36 6/60	31 37 16 14	27 . 17 4 4	19 14 2 —	34 10 2 2	65 18 4 2	31 69 7 2	2 5 26 2	1 2 3 46	210 172 64 72
	6/18 6/24 6/36 6/60	70 31 37 16 14	57 27 .17 4 4	53 19 14 2 —	131 34 10 2 2	33 65 18 4 2	16 31 69 7 2	4 2 5 26 2	3 1 2 3 46	517 367 210 172 64 72
	6/12 6/18 6/24 6/36 6/60	119 70 31 37 16 14	101 57 27 17 4 4	194 53 19 14 2 —	69 131 34 10 2 2	17 33 65 18 4 2	14 16 31 69 7 2	3 4 2 5 26 2	8 3 — 3 1 2 3 46	517 367 210 172 64 72
	6/6 6/9 6/12 6/18 6/24 6/36 6/60	359 119 70 31 37 16 14	752 101 57 27 .17 4 4	115 194 53 19 14 2 —	37 69 131 34 10 2 2	26 17 33 65 18 4 2	14 14 16 31 69 7 2	3 3 4 2 5 26 2	3 - 3 1 2 3 46	367 210 172 64 72
	6/9 6/12 6/18 6/24 6/36 6/60	10,181 359 119 70 31 37 16 14	332 752 101 57 27 17 4 4	89 115 194 53 19 14 2 —	48 37 69 131 34 10 2 2	6/24 28 26 17 33 65 18 4 2	28 14 14 16 31 69 7 2	9 3 3 4 2 5 26 2	8 3 — 3 1 2 3 46	517 367 210 172 64 72

otals

441

200

130

75

32

24

00

6

ight Eye

(b) Primary schoolchildren with glasses

TABLE E8 (continued)

(c) Secondary schoolchildren without glasses

(d) Secondary schoolchildren with glasses

light Eye otals

218

57

17

14

87

- S- E	6	- 64				1000		1	1000	
Tress.	<6/60 To	- 1			1	1	1	-	1	1
1000 m	09/9	1	1	T	1.	T	1	1	1	7.0
112	98/9	1	1	1	-	2		1	1	4
CHANGE TO SERVICE OF THE PARTY	6 /24	-	2	1	2	- 1			1	3
Left Eye	81/9	3	2	5	4	5		1	1	19
ĭ	6/12	14	7	22	4	4		1	1	51
	6/9	34	41	14	2	2	1	-	1	46
	9/9	164	34	16	5	1	1		1	220
	Visual	9/9	6/9	6/12	8/18	6/24	98/9	09/9	09/9>	Totals
					Right	i i	1			Left Eye
1		1					2/1	others of	10	10 300
Right	Cotals		236	133	108	16	88	42	25	9,269
Right	<6/60 Totals	3 2,538	-	- 133			<b>38</b>	320	-	24 3,269
Right	6/60 <6/60 Totals	2,538	236	4 — 133	108		28	42	25	
Right		3 2,538	236	1	- 108		1	3 42	25	24
	09/9	2 3 2,538	1 1 236	- 4	2 — 108	1 - 91	7 -	29 3 42	1 17 25	47 24
	09/9 98/9	11 2 3 2,538	4 1 1 236	9 4	8 2 - 108	16 1 - 91	54 7 —	2 29 3 42	1 17 25	99 47 24
Right Eye Eye	6/24 6/36 6/60	17 11 2 3 2,538	4 4 1 1 236	13 3 4 —	6 8 2 — 108	32 16 1 — 91	13 54 7 —	2 29 3 42	1 17 25	87 99 47 24
	6/18 6/24 6/36 6/60	22 17 11 2 3 2,538	9 4 4 1 1 236	12 13 3 4 —	41 6 8 2 — 108	15 32 16 1 — 91	5 13 54 7 —	2 29 3 42	1 17 25	106 87 99 47 24
	6/6 6/9 6/12 6/18 6/24 6/36 6/60	92 39 22 17 11 2 3 2,538	28 9 4 4 1 1 236	51 12 13 3 4 —	24 41 6 8 2 — 108	8 15 32 16 1 — 91	3 5 13 54 7 —	1 _ 1 _ 2 _ 29 _ 3 _ 42	1 1 1 1 1 25	246 154 106 87 99 47 24
Left Eye	6/9 6/12 6/18 6/24 6/36 6/60	39 22 17 11 2 3 2,538	101 28 9 4 4 1 1 236	23 51 12 13 3 4 —	12 24 41 6 8 2 — 108	9 8 15 32 16 1 — 91	5 3 5 13 54 7 —	2 - 1 1 2 29 3 42	2 1 1 1 1 1 25	154 106 87 99 47 24

395

Colour Vision	Colour Vision		Boys		Girls		Total	
Normal Defective—safe Defective—unsafe Total		Primary	394 27 24 445	(88.5%) (6.1%) (5.4%) (100%)	503 16 3 522	(96.3%) (3.1%) (0.6%) (100%)	897 43 27 967	(92.8%) (4.4%) (2.8%) (100%)
Normal Defective—safe Defective—unsafe Total	::	Secondary	1,253 63 52 1,368	(91.6%) (4.6%) (3.8%) (100%)	803 3 2 808	(99.4%) (0.4%) (0.2%) (100%)	2,056 66 54 2,176	(94.5%) (3.0%) (2.5%) (100%)
Normal Defective—safe Defective—unsafe Total	::	All Schools	1,647 90 76 1,813	(90.8%) (5.0%) (4.2%) (100%)	1,306 19 5 1,330	(98.2%) (1.4%) (0.4%) (100%)	2,953 109 81 3,143	(94.0%) (3.5%) (2.5%) (100%)

## Tuberculin Tests

## TABLE E 10

Age	Number of children available	Offered* tuberculin test	Refused	Tested	Negative	Positive
4	918	_	-		-	
5 6 7 8 9	4,078	1	-	1	_	1 (100%)
6	1,955	-	100,000		0 (1000()	
7	276	3	1 (33.3%)	2	2 (100%)	1 /0 00/1
8	143	36	1 (2.8%)	35	34 (97.1%)	1 (2.9%)
9	1,367	795	105 (13.2%)	690	636 (92.2%)	54 (7.8%)
	3,152	2,047	432 (21.1%)	1,615	1,458 (90.3%)	157 (9.7%) 80 (16.5%)
11	1,166	617	131 (21.2%)	486	406 (83.5%)	80 (16.5%) 57 (19.0%)
12	1,462	414	114 (27.5%)	300	243 (81.0%) 330 (79.5%)	85 (20.5%)
13	1,790	554	139 (25.1%)	415 128	89 (69.5%)	39 (30.5%)
14	689	177	49 (27.7%)	4	3 (75.0%)	1 (25.0%)
15	29	6	2 (33.3%)	-	3 (73.0%)	1 (20.0/0/
16	1	1000			Par I	
17	1-0					-
18	1750	1000				
19						
Cotals	17,026	4,650	974 (20.9%)	3,676	3,201 (87.1%)	475 (12.9%)

<sup>\*</sup> From 10 years onwards the difference between this figure and the number available is accounted for largely by children known to have had B.C.G. vaccination, but includes some who had skin disease or other ailments making tuberculin testing undesirable. At routine medical inspections the younger children are not usually offered tuberculin test unless they are tuberculosis contacts, or their parents request it, or they are nearing 10 years of age.

# Action to be Taken as a Result of Routine Medical Inspection

# Primary Schools

-		_	_			_			
	ion	Girls	48	9	32	6	1	95	149
3	Action	Boys	16	9	23	6	1	54	-
1	rist	Girls	23	1	16	2	-1	42	06
T. A.	netrist	Boys	26	4	15	3	1	48	100
door	pist	Girls	11	3	4	2		20	58
To Ca	Therapist	Boys	22	4	12	1		38	-
- cion	pist	Girls	56	23	71	10	51.8	133	258
To Diamio	therapist	Boys	52	18	47	œ		125	25
	.A.	Girls	1	1	2	1	1	2	
È	N.I.T.A.	Boys Girls	1	1	1	1	1	1	2
	ital	Girls	80	6	6	-	1	27	52
T	Hospita	Boys (	11	7	2	2	1	25	40
FN	alist	Girls	4	œ	œ	-	1	21	11
TOFNT	Specialist	Boys	3	3	14	1	1	20	4
- Syno	alist	Girls	171	92	305	99	1	625	1,338
Tot	Specialist	Boys Girls	217	112	319	65	1	713	1,8
hool	Clinic	Boys Girls	174	09	167	13	1	414	833
To School	55	Boys	204	09	140	15	1	419	86
To Eamily	Doctor	Boys Girls	33	10	13	2	1	58	103
To E	Doc	Boys	25	9	13	-	1	45	10
ma	Visits	Boys Girls	71	20	901	14	1	211	1
Ho	Vis	Boys	112	42	127	19	1	300	511
			4						
	Age	Group	Entrants	п	Ш	IV	٨	Totals	
-								-	

	Other	Boys Girls	1	4	15	30	1	- 50	65
	Oti	Boys	1	1	4	. 11	1	15	
	To Audio- metrist	Boys Girls	1	1	1	1	700	2	7
	To A met	Boys	ī	1	1	. 5	1	2	3.5
	peech apist	Boys Girls	1	1	1	1	13	-	11
	To Speech Therapist	Boys	1	1	4	9	F	10	1000
812	To Physio- therapist	Boys Girls	2	2	17	22	24	46	65
000	To Physio- therapist	Boys	1	1	80	11	1	19	
111	r.A.	Girls	1	1	1	1	1	1	1
NI NI	To To N.I.T.A.	Boys Girls	1	1	1	1	1	1	
TA.	o pital	Boys Girls	1	7	2	4	1	9	8
chools	To Hospital	Boys	1	.1	1	2	1	2	1000
Secondary Schools	N.T.	Girls	1	-1	1	1	1	-	1
Secor	To E.N.T. Specialist	Boys	1	1	1	1	1	1	
111	Eye	Girls	2	00	32	100	1	142	313
	To Eye Specialist	Boys Girls	4	3	40	124	1	171	3
	To School Clinic	Girls	1	3	7	26	1	36	95
.20	To S.	Boys Girls	2	1	16	41	1	69	
	To Family Doctor	Boys Girls	4	4	11	26	1	45	65
	To Fr Door	Boys	2	-	20	12	1	20	
	Home Visits	Boys Girls	2	2	9	17	1	27	47
-	Ho	Boys	4	4	4	80	1	20	
	Acre	Group	Entrants	п	Ш	IV	٨	Totals	

	F	rimary School	ols	Se	condary Scho	ols	
Defects for which re-examined	For Treat- ment	For Observa- tion	Cured	For Treat- ment	For Observa- tion	Cured	
Skin	20	72	78	2	31	31	
Eyes (a) vision (b) squint (c) other	1,642 152 13	2,676 464 29	951 13 24	533 20	1,558 81 4	224 4 7	
Ears (a) hearing (b) otitis media (c) other	134 13 16	185 48 31	142 49 52	10 1 2	31 8 18	13 7 7	
Nose and throat	218	1,091	1,071	15	85	197	
Speech	75	228	166	14	22	25	
Cervical glands	10	67	42	-	4	6	
Heart and circulation	30	157	105	4	29	40	
Lungs (a) (b) pulmonary tuberculosis	61	246 13	296 11	2	53 2	49	
Development	16	53	24	-	4	-	
Orthopaedic (a) posture (b) feet (c) other	7 32 9	51 134 55	46 146 36	2 25 1	9 70 11	20 136 10	
Nervous system (a) epilepsy (b) other	4 2	24 13	1 8		4 2		
Psychological (a) development (b) stability	30	119 16	22 13	1	19 2	6 3	
Tuberculosis—non-pulmonary	-	23	10	-	3	-	
Other defects	111	375	393	13	96	115	
	2,600	6,170	3,699	645	2,146	902	
Totals		12,469			3,693		
		1000	16,162	6,162*			

<sup>• 16,162</sup> defects in 12,709 children (Primary 9,651; Secondary 3,058).

Reason for examination				Number of examinations carried out	Per cen
Skin		Seat.		1,512	8.1
Eyes (a) vision				691	3.7
(b) squint				117	.6
(c) other				131	.7
Ears (a) hearing				629	3.4
(b) otitis media				169	.9
(c) other				105	.6
Nose and throat				571	3.1
Speech			15.	63	
				63	.3
Cervical glands				12	.1
Heart and circulation		7		225	1.2
Lungs (a) (b) pulmonary tuberculosis				504	2.7
	100		33.5		.03
Development	- 11			33	.2
Orthopaedic (a) posture				14	.1
(b) feet				112	.6
(c) other		***	100	86	.5
Nervous system (a) epilepsy		1		31	.2
(b) other				41	.2
Psychological (a) development				649	3.5
(b) stability	***			111	.6
Tuberculosis non-pulmonary				3	.01
Other defects					
	***		***	1,093	5.8
B.C.G. vaccination				3,761	20.1
Tuberculin skin test				2,712	14.5
Pre-anaesthetic examination		**		5,284	28.3
Total				18,665	100

## Handicapped Pupils

TABLE E 14

Handicap	I	Special Day thool	Resid	pecial ential nool	No	At rmal hool	N	it lo lool	Ho	t me tion	Tot	tals
7.6	Boy	s Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Blind	7	9	3	5		-	2	-	1		13	14
Partially Sighted	9	8	3	3	29	27	3	1	-	-	44	39
Deaf	10	14	4	2	_	-	-	-	-	-	14	16
Partially Deaf	20	17	5	6	115	89	1	2	1	1	142	115
Delicate	58	77	2	-	33	38	1		6	3	110	118
Educationally Subnorma	368	235	7	6	742	494	22	19	4	5	1,143	759
Epileptic	18	9	1	3	65	42	4	3		1	88	58
Maladjusted	20	16	1	2	102	37	1		3	1	127	56
Physically Handicapped	56	48	9	7	89	76	10	5	20	21	184	157
Speech Defect	33	15	-	1	354	325	3	2	1	1	391	344
	520	434	35	35	1,608	1,142	47	32	36	33	2,246	1,676
Totals		954	7	0	2	,750		79	(	39	3	,922*

 $<sup>*3,\!922</sup>$  handicaps in 3,322 pupils (1,946 boys, 1,376 girls). Of these, 360 children have 2 handicaps, 52 have 3 handicaps, and 6 have 4 handicaps.

Delicate	76									
Speech Defect	5	174						among idicaps.	ps and handi-	
Physically Handicapped	9	20	1111					924 handicaps multiple har	taps and apperture three handicaren have four ch.	
Maladjusted	7	17	3	146				istribution of en who have	children have imes; 6 childrar ar six times ca	
Epileptic	61	9	10	4	72			Showing the distribution of 924 handicaps among the 426 children who have multiple handicaps.	appear three times; 6 children have four handicaps and appear three times; 6 children have four handicaps and caps and appear six times each.	
E.S.N.	46	113	29	110	45	447				
Partially Deaf	8	10	3	3	1	57	85			
Deaf	1	-	2	_	1	1	1	3		
Partially Sighted	CI	3	7	2	5	16	2		34	
Blind	T	-	1	-	1	1 .	1	1	1	4
Handicap	Delicate	Speech defect	Physically handicapped	Maladjusted	Epileptic	E.S.N	Partially deaf	Deaf	Partially sighted	Blind

	Reasons for Admission									Total
Adenitis						-			1	
Anaemia								1		1
Asthma								7	0	10
Bronchiectasis								9	2	16
Bronchitis								9	5	6
Cerebral Palsy								1	3	8
Chorea						**	**		1	1
Debility					1.		**	9	0	11
Heart disease (Co	ongenital) .					**		2	9	11
Heart disease (R)	heumatic) .					**		2	-	2
Late effects of Po	oliomyelitis						2.0	-	1	3
Late effects of pr	imary tube	rculous	complex		1.5	- 11		-	1	1
- abantoner			··					1	2	3
Muscular dystrop	hv			-	**	**	**	-	1	1
AT	100		• •	* *		**		1	1	1
Retarded physica		ent			2.5	**		1	1	2
TO I TO SECOND A SECOND ASSESSMENT OF THE PARTY OF THE PA			* *					-	1	1
				11	7.00	**		-	3	3
Number admitted	during 19	59				700		24	38	00
Number discharg	ed during 1	959			**		0.0	30		62
Average duration	of stay in	months		**	***			7070	31	61
- age duration	or other in	months		100				41	32	36

LE E 17	Mis	scellane	ous				
Ultra violet light treatments .						3,623	75
Physiotherapy:						0,020	
Children treated .						854	
Total attendances .						9,796	
Cases discharged .						425	
Waiting list						20	
Speech Therapy:							
Total attendances			400			4,002	
Audiometry:						-,	
Children sweep tested at	school .					5,032	
Children failing sweep te						339	(6.7%)
Children failing individu						251	(5.0%)
Children referred to spec						100	(0.070)
Cleanliness:			****	**		100	
Children inspected .						156,897	
Children found to have r			**	• • •	::	6,969	(4.4%)
Children found to have v			11			2,063	(1.3%)
Children cleansed at clin			11			3,862	(1.0 /0)
B.C.G. Vaccinations:						0,002	
Vaccinations at School C	linics					3,761	
Vaccinations by other at				**		980	
Children tuberculin teste		1				3,676	
Children showing positiv			* *	**		475	(12.9%)
Children showing negative			**	••	*	3,201	(87.1%)
Vaccinated children rete					::	80	(0,,,,,,)
Vaccinated children reter						_	
Nurses' Home Visits						6,285	
				• •		1,243	
Nurses' School Visits			***	• •		1000	
				**		199	
Eye Specialist:						4 004	
						4,624	
Children given post-myd						2,304	
Children examined for of						478	
Children referred for orth	hoptic trea	atment		,		133	
E.N.T. Specialist:						-	
Children examined .						6	
Medical Specialist:							
Children examined at scl						97	
Children examined at spe	ecial scho	ols				80	
General Anaesthetics						5,284	and the same

## REPORT OF THE CHIEF DENTAL OFFICER FOR THE YEAR 1959

Report covering the work of the Dental Section during the year 1959. Statistical tables relative to the various aspects are appended.

## Dental Inspection in Schools

During the year all schools within the Health Committee's Scheme namely a total of 202 were visited. This entailed 560 visits by the dental officers who, between them, dealt with an average of 128 children per session. The aggregate inspected was 71,424 or 90.1% of the average on rolls. Five schools do not participate in the Health Committee's Scheme. These provided privately for inspection of 1,991 pupils or 90% of their total on rolls. In the Committee's clinics a further 13,117 routine dental inspections were recorded, making an ultimate total of dental inspections by the Committee's officers of 84,541 for the year.

## Dental Condition of Children Inspected

Of the total pupils examined in Schools, 51,169 were classified as defective, equivalent to 71.6% of those inspected. Boys and girls were found on the average equally defective, the percentages varying between 30% and 81%, the former figure in respect of the two years age group and the latter in reference to the eight years group. In particularised figures, of the total of teeth examined, approximately 149,000 required attention, 121,000 being considered capable of preservation. It needs little imagination to realise the tremendous effort and cost necessary to effect this yearly totality of repair.

## Post Inspection Notification and Parents' Response

In accordance with routine, and excepting those children currently in process of having treatment, the parents of all pupils found on inspection to have defect were duly notified. A total of 49,057 were thus advised to seek treatment. In response, 73.5% agreed, 60.47% indicating their intention of having this carried out privately, and the balance 39.53% asking for treatment at the Committee's clinics. Approximately one in eight parents refuse yearly to have any dental treatment for their children. The success of dental health education in respect of this section appears doubtful. Happily they are a minority, many of whom incidentally expect instant professional attention when pain supervenes.

## Attendances at City Clinics

All those asking for treatment to be carried out at the Committee's clinics were duly given appointments. These numbered 14,260, of which total 10,651 individuals eventually attended, making an aggregate of 36,911 patients during the year. Patients attending for the first time numbered 3,548, the balance, 33,363 or 90.3%, being those who returned, presumably appreciatively, for further treatment.

## **Dental Treatment in Clinics**

Treatment in clinics during the year followed the usual course and, with the exceptions of Prosthetic, Orthodontic and other specialised cases, covered all branches necessary to secure dental fitness of the child. Filling treatments at 26,198 greatly outweighed, as they should, those of extraction, 3,817 treatment sessions out of a total of 4,353 being devoted to conservation measures. Those in need of Orthodontic treatments were referred to the Dental Department of the Royal Victoria Hospital. These totalled 158. Those requiring dentures were referred to the appointed surgeon, and 39 pupils were prosthetically equipped. The above special treatment figures are not included in the statistical tables. Analysis of the treatments per child provided in the Committee's clinics shows that each child treated received an average of 7.2 treatments, and that there was an average of 2.8 check inspections per child inspected. Patients per surgeon averaged 3,538 and treatments for the year totalled 43,705.

## General Remarks

As this is the last report I shall have the honour of presenting, I may perhaps be permitted to briefly recapitulate in regard to the fortunes of the Service.

In 1927 the surgical staff comprised of only four part-time officers. Their work mainly consisted of trying to cope with a flood of extractions. Ten years later in 1937 the first full-time officer was appointed, and the long arduous process of building up the Service on a conservative basis began. Equipment, premises and staff were quite inadequate in the attempts to meet the treatment demand, and, as a result, long waiting lists for treatment were continuously in evidence. Nevertheless the

persistent pressure of demand produced a gradual if slow march forward, and some idea of the development of the Service may be gauged from the fact that a yearly total of treatments of 7,552 in the year 1927, increased to a yearly total of 75,116 in 1954. This year, however, proved unfortunately to be the peak year of the Service. The existing clinics, all adapted buildings, were by this time incapable of housing any further expansion of the Service, and the long awaited new clinics were still in a procrastinatory position far away on the horizon. The acquisition of further dental officer staff was hampered by the fact that these surgeons could find more lucrative positions elsewhere. Many private practitioners who, in the first years of the General Health Service, had no time nor desire for juvenile patients, now decided to take all comers. Parents naturally responded to this situation by taking their children to the more comfortable and more conveniently situated private surgeries, and the change over from clinic to private dentist became increasingly apparent. The past ten years has consequently seen the demand for clinic treatment steadily drop. Whereas in 1949, only 11.3% indicated their intention of attending a dentist privately and 88.7% asked for treatment at the clinics, today 60.47% go to the private dentist, and only 39.53% avail themselves of the clinics. Is the process likely to proceed to a complete change over? Is the future of the School Dental Service destined to be merely that of a School Inspection Service? These questions are pertinent, in view of the officially known and accepted fact that the cost to the nation of the priority dental treatment of children is infinitely less when provided by the local authorities. In these circumstances it would seem appropriate that Governmental policy should be stated, in guidance to the local Health Authority, before the latter is expected to further embark upon what may easily now prove to be a too ambitious, or even eventually a quite unnecessary dental clinic programme.

It would not be fitting if I conclude this report without also recording my gratitude to all my colleagues, Dental, Medical and Administrative, for their co-operation, courtesy and tolerance during my term of office. These factors made my path the easier, and I retire with very happy recollections of the period in which I have been privileged to serve.

A. S. IRVING, L.D.S., R.C.S. (Edin.),

Chief Dental Officer

SCHOOL DENTAL INSPECTION	Area 1	Area 2	Area 3	Totals
SCHOOLS VISITED:  Primary	54	50	37	141
	3	12	6	21
	12	6	6	24
	1	6	2	9
	3	3	1	7
	200	211	149	560
	200	211	149	560
	126	128	128	128
	73	77	52	202
	(100.0)	(100.0)	(100.0)	(100.0)
RESPONSE TO NOTIFICATION:  Refusing Inspection	3,118	4,035	2,679	9,832
	(11.0)	(13.0)	(12.3)	(12.1)
	28,380	<b>31,097</b>	21,779	<b>81,256</b>
	(100.0)	(100.0)	(100.0)	(100.0)
CHILDREN INSPECTED: Primary	16,223	16,703	12,834	45,760
	2,294	7,481	3,487	13,262
	6,327	2,039	2,448	10,814
	34	126	79	239
	384	713	252	1,349
	13,109	14,637	9,833	37,579
	12,153	12,425	9,267	33,845
	25,262	27,062	19,100	<b>71,424</b>
	(89.56)	(90.46)	(90,30)	(90.10)
CHILDREN DEFECTIVE: Primary Intermediate Technical, Preparatory, and Grammar Nursery School and Centre Special School TOTAL Boys Defective (per cent Inspected) TOTAL Girls Defective (per cent Inspected) TOTAL CHILDREN DEFECTIVE (per cent Inspected)	12,695	13,205	9,762	35,662
	1,403	5,264	2,620	9,287
	2,951	950	1,256	5,157
	263	527	170	960
	18	62	23	103
	8,935	10,866	<b>7,158</b>	<b>26,959</b>
	(68.16)	(74,24)	(72.80)	(71.74)
	8,395	9,142	<b>6,673</b>	<b>24,210</b>
	(69.08)	(73,58)	(72.01)	(71.53)
	17,330	20,008	<b>13,831</b>	<b>51,169</b>
	(68.6)	(73,93)	(72.41)	(71.64)

## Classification of Dental Defects

	CLASSIFICATION	Area 1	Area 2	Area 3	Totals
Children dith	Saveable Teeth Unsaveable Teeth Saveable and Unsaveable Teet Irregularity of Dentition Other Dental and Oral Defects	304	14,191 1,134 4,384 381 413	10,190 686 3,295 423 457	35,308 2,595 12,511 1,108 1,207
TEETH:	y Dentition { Sound Saveable Unsaveable	125,101 18,290 7,999	124,544 24,241	102,113 16,647	351,758 59,178
Permanen	t Dentition { Sound Saveable Unsaveable	367,547 20,369 2,972	6,064 384,554 24,856 3,662	4,446 302,440 17,041 2,412	18,509 1,054,541 62,266 9,046
BEAL	TOTAL Teeth Saveable Unsaveable Examined	38,659 10,971 542,288	49,097 9,726 567,921	33,688 6,858 445,099	121,444 27,555 1,555,308

AGE		BOYS		The Art Style	GIRLS	
GROUPS	Inspected	Defective	Per cent Defective	Inspected	Defective	Per cent Defective
2	16	6	37.50	10	3	30.00
3	59	22	37.29	58	21	36.21
4	398	236	59.30	386	248	64.25
5	1,863	1,356	72.79	1,877	1,364	72.67
6	3,136	2,428	77.42	2,874	2,227	77.49
7	3,141	2,523	80.32	2,947	2,348	79.67
8 9	3,239	2,600	80.27	3,106	2,528	81.39
	3,328	2,691	80.86	3,179	2,545	80.06
10	3,472	2,683	77.28	3,279	2,493	76.03
11	4,151	2,924	70.44	3,689	2,534	68.69
12	4,312	2,870	66.56	3,798	2,547	67.06
13	3,608	2,310	64.02	3,204	2,095	65.39
14	3,525	2,380	67.52	2,902	1,926	66.37
15	1,922	1,248	64.93	1,641	985	60.02
16	810	423	52.22	569	226	39.72
17	462	209	45.24	291	104	35.74
18	132	48	36.36	34	15	44.12
19	5	2	40.00	1	1	100.00
TOTALS	37,579	26,959	71.74	33,845	24,210	71.53

## Post-Inspection Notification and Parents' Response

## TABLE F 4

		ITEMS	3	Area 1	Area 2	Area 3	Total
OTIFIE Total I	D AS DEFEC	TIVE:		16,868	17,896	14,293	49,057
Refusir No resp		(per cent)		2,060 (12.21) 2,041 (12.10) 12,767 (75.69) 8,068 (63.19) 4,699 (36.81)	2,616 (14.62) 3,509 (19.61) 11,771 (65.77) 6,890 (58.53) 4,881 (41.47)	1,548 (10.83) 1,210 (8.47) 11,535 (80.70) 6,855 (59.43) 4,680 (40.57)	6,224 (12.69) 6,760 (13.78) 36,073 (73.53) 21,813 (60.47) 14,260 (39.53)
			::	<b>4,699</b> (100.0)	<b>4,881</b> (100.0)	<b>4,680</b> (100.0)	14,260 (100.0)

## Attendances at City Clinics

CLINIC ATTENDANCES	Area 1	Area 2	Area 3	Totals
INDIVIDUALS: Attending for Inspection Treatment Inspection and Treatment	 907 2,292 190	670 1,999 1,679	613 1,705 596	2,190 5,996 2,465
TOTAL INDIVIDUALS	 3,389	4,348	2,914	10,651
PATIENTS: New Patients Previous Patients	 1,134 7,833	1,503 11,794	911 13,736	3,548 33,363
TOTAL PATIENTS	 8,967	13,297	14,647	36,911

## Dental Clinic Attendances:—Schools' Analysis

TABLE F 6

School				Total on Rolls	Children Attending Clinic	Total Clinic Attendances	Total Treatments
PRIMARY SCHOOLS:-A	rea 1						
All Saint's Junior .				161	8	31	28
Argyle Senior				719 241	82 44	183 69	229 112
				261	22	40	70
TO 12 C 12 T 1				259	17	41	71
The state of the s				522	28	84	141
				471	22	74	75
Broadway Junior .				180	22 78	59 191	79 274
				438 255	61	130	190
D II D I Tomber		***		367	65	215	245
T 1 C C			11	119	30	56	74
TO A COL . A T. A . whole				154	29	64	78
Fane Street Senior .				648	50	212	238
CONTRACTOR OF STREET OF ST				126	21	52	89
		**	* *	237 293	32 47	103 134	122 160
				359	21	68	81
Owner Prod Tonion			1.	172	7	29	29
Dontonto Continu				279	5	41	40
Owen Winkerin				224	42	130	160
				149	28	46	91
				221	41	87	136
Ct Deidele				348 275	79 45	154 127	238 135
Ct Catherina's Comment				. 491	57	157	190
Ct Colmoille's				56	14	22	31
Ct Commell's Done!				505	87	185	239
Ct Commell's Cials!				385	80	178	237
	+	**		509	90	209	287
				410	89	255	312
St John's Cirle'			• •	279 363	53 26	121 74	154
St Incorb's Pour'				493	61	120	83 157
St Incenh'e Cirle'				316	31	66	89
St Kamin's Rome'				962	164	382	505
St. Kevin's Girls' .				1,076	194	472	615
St. Mary's Christian Broth	iers'			381	70	235	290
St. Mary's Boys' .	+			93	17	39	54
St. Mary's Girls' . St. Mary's	*			113 398	14 67	51	63
St Patrick's				94	9	184 22	217 35
St. Paul's Boys'				402	84	212	281
St. Paul's Girls'				151	18	25	41
				311	34	54	74
St. Peter's Girls'				241	25	48	63
St. Simon's Junior . St. Vincent's				354	69	253	283
Springfield				701 445	122 82	365	460
Stronmillie				207	82 24	243 53	286 63
Taughmonagh				576	83	222	291
Ulsterville Junior .	4			484	95	332	388
No Cabasi				135	25	101	144
No School		**		_	36	106	135
TOTALS .				18,409	2,746	7,206	9,252

School			Total on Rolls	Children Attending Clinic	Total Clinic Attendances	Total Treatments
PRIMARY SCHOOLS:-Area 2						
Ballygolan			385	84	347	391
Blenheim Junior			196	65	139	214
Carr's Glen			1,019	74	300	314
Cliftonville Infants'			358	62	247	282
Cliftonville Junior			514	96	334	371
Crumlin Dond Lunion		**	809	150	451	517
Currie Innier			323	34	92	125
Finiston	**		330	68	179	182
Forth Divor		**	477	67	240	304
Catter Innier			347	56	151	174
C			234	52	108	157
Hemsworth Square Senior			619	127	380	403
Hillman			593 340	59	166	162
Holy Cross Pores'			671	82	262	305
Holy Cross Girls'	- 11		908	75 105	140	185
Holy Family Boys'			337	108	215 355	299
Holy Family Girls'			370	115	422	331
John White Junior			501	72	204	386
Lancaster Street			234	37	73	213
Lowwood Infants'			326	97	287	114
Lowwood Junior			455	52	185	350
Our Lady of Lourdes			223	28	85	173 127
Perth Street	1.0		256	36	87	104
Riddel Memorial Junior			320	64	146	194
St. Colmban's Boys'			349	43	99	113
St. Colmban's Girls'			402	55	137	148
St. Joseph's Boys'			61	16	34	46
St. Malachy's Boys'			205	31	53	92
St. Mark's			177	37	99	102
St. Mary's Junior			474	68	174	180
St. Mary's Star of Sea Boys'			414	54	114	149
St. Mary's Star of Sea Girls'			425	88	236	320
St. Patrick's Christian Brothers			382	120	321	381
St. Patrick's Boys' Junior			331	48	143	163
St. Patrick's Girls' Junior			348	55	144	181
St. Vincent de Paul's Boys'			117	18	34	60
St. Vincent de Paul's Girls'			134	7	15	22
Seaview			417	143	489	550
Skegoniel			490	144	598	746
Springhill			645	69	163	272
Star of Sea Boys'	1000		131	60	124	162
Star of Sea Girls'			294	80	218	269
Wheatfield Infants'			398	62	162	202
Wheatfield Junior			457	61	210	262
Wolfhill	**		130	17	33	65
Woodvale Junior			403	103	326	388
No School	115	**		73	174	216
TOTALS			18,329	3,317	9,695	11,466

## Dental Clinic Attendances:—Schools' Analysis—(continued)

TABLE F8

School	1		Total on Rolls	Children Attending Clinics	Total Clinic Attendances	Total Treatments
PRIMARY SCHOOLS:	Area 3		Policy			
Avoniel Junior		 	702	95	370	485
Beechfield Junior		 ***	636	66	257	304
Belmont Junior		 	324	20	116	129
Elmgrove		 	854	180	944	1,043
Euston Street		 	734	149	642	770
Greenwood		 	322	56	263	301
Harding Memorial		 	670	167	886	881
Lagan Village		 	88	11	38	44
Megain Memorial Junior		 	247	36	133	179
Memel Street Junior		 	123	9	42	39
Mersey Street		 	801	78	287	347
Nazareth House		 ***	83	3	8	12
Nazareth Lodge		 	112	32	108	139
Nettlefield		 	773	205	966	1,057
Orangefield		 	608	123	704	721
Ravenhill Road		 	109	17	71	89
Robert Bell		 	196	47	157	219
Rosario Boys'		 	226	59	246	308
Rosario Girls'		 	167	39	217	248
Rosetta		 	582	149	793	778
St. Anthony's Boys'		 	150	40	171	189
St. Anthony's Girls'		 	150	39	192	186
St. Colman's		 	340	26	96	129
St. Congall's Boys'		 	96	5	19	21
St. Congall's Girls'		 	89	8	18	20
St. Joseph's Boys'		 	183	24	127	129
St. Joseph's Girls'		 	139	26	127	148
St. Malachy's Christian I			159	29	82	89
St. Malachy's Convent		 	400	60	228	275
St. Matthew's Boys'		 	451	73	230	317
St. Matthew's Convent			348	62	250	305
Strand			542	47	266	322
Strandtown		19	1,060	136	785	866
Sydenham			435	61	211	241
Templemore Avenue		 	724	41	186	196
Ulidia			533	103	531	619
No School		 	_	59	244	234
TOTALS		 	14,156	2,380	11,011	12,379

TABLE F 9 Dental Clinic Attendances:—Schools' Analysis—(continued)

Scho	ool			Total on Rolls	Children Attending Clinic	Total Clinic Attendances	Total Treatments
INTERMEDIATE SCHO	OOLS:						
Kelvin				890	53	160	185
St. Louise's Girls'				883	32	71	86
St. Thomas's Boys'				902	77	214	284
Total				2,675	162	445	555
Area 2					13 132 11		
Ballygomartin Boys'			- 4.4	882	71	207	224
Dunlambert Boys'				750	79	447	484
Edenderry				685	43	136	115
Everton		2.0		866	63	210	211
Glenwood Girls'				511	37	120	99
Graymount Girls'				807	81	336	437
Little Flower Girls,				473	i	12	15
Model Boys'			14.	856	139	523	599
Model Girls'				916	97	408	437
Mountcollyer				717	60	203	237
St. Gabriel's Boys'				611	48	108	138
St. Patrick's Boys'			1356	713	48	146	155
Total				8,787	767	2,856	3,151
Area 3							
Ashfield Boys'				874	62	328	413
Ashfield Girls'				871	48	303	340
Orangefield Boys,				832	93	602	723
Park Parade		- 10		944	100	600	654
St. Monica's Girls,				668	25	188	225
Total				4,189	328	2,021	2,355
TOTAL (All Areas	)	-		15,651	1,257	5,322	6,061

TABLE F 10 Dental Clinic Attendances: Schools' Analysis—(continued)

School		Total on Rolls	Children Attending Clinic	Total Clinic Attendances	Total Treatments
TECHNICAL, PREPARATORY, a GRAMMAR:	nd				
Area 1					
Ashleigh House		. 405	5	21	23
(Ardeen)		. 68	-	1 1	2
Christian Brothers' Grammar		. 759	86	264	305
Grosvenor High		. 761	91	535	665
Methodist College		. 1,795	93	390	426
Methodist College Princess Gardens		. 346	13	72	85
Richmond Lodge		414	5	21	24
Royal Academical Institution		. 1,085	31	136	145
	(Inchmarlo		10	26	28
		077	36	113	121
Victoria College		410	17	46	53
" " (Drumglass		. 137		_	_
Total	ilouse, .	0 244	387	1,625	1,877
10tai		. 0,711	001	2,000	
Area 2					
Christian Brothers' Technical		. 289	37	93	129
Christian Brothers Technical		. 289	31	154	157
Royal Academy (Ben Madiga	· · ·		1	4	2
,, ,, (Ben Madiga ,, ,, (Wingfield)	n) .	100	3	6	5
,, (Wingfield)		70	10	35	40
" (Sinclair Mer			57	191	234
St. Malachy's College			139	483	567
Total		. 2,176	199	300	001
				The state of the state of	
Area 3		700	69	386	449
Annadale Boys'			11	69	71
Bloomfield Collegiate	**			7	3
Cabin Hill			1	312	335
Carolan Girls,	***		36	140	173
Methodist College (Downey Ho	use) .		28	37	47
Strathearn			10		1.078
Strathearn Total		. 2,546	155	951	1,070
		. 11,436	681	3,059	3,522

## Dental Clinic Attendances:—Schools' Analysis—(continued)

TABLE F 11

Sch	ool		Total on Rolls	Children Attending Clinic	Total Clinic Attendances	Total Treatments
NURSERY SCHOOLS	AND CI	ENTRES:				
Area 1 Arellian Taughmonagh			 46 26	4 1	10 10	12 9
Area 2  Ballygolan Brefne Edenderry Frederick Street Glenbank Tudor Lodge	::		 11 22 48 25 24 49	7 13 1 4 8	19 26 6 11 21	25 
Area 3 McArthur Nazareth Lodge			 48 47	5 5	6 5	7 5
TOTAL (All Ar	eas)		 346	48	114	183

## Dental Clinic Attendances: Schools' Analysis—(continued)

School		Total on Rolls	Children Attending Clinic	Total Clinic Attendances	Total Treatments
SPECIAL SCHOOLS:					
Area 1 Blind, Deaf and Dumb Fleming Fulton Harberton Malcolm Sinclair House Ulster School for Deaf and Area 2 Blind, Deaf and Dumb Graymount Mount Vernon St. Aloysius's Boys'	Blind	 32 42 82 23 158	1 6 1 	1 19 4 	5 34 6 381 200 41 8
Area 3 Blind, Deaf and Dumb Oakleigh Victoria Homes  TOTAL (All Areas)	::	165	37 4 222*	102 33 504*	162 53 892‡

<sup>\*</sup> Includes one "Outside Area" patient.

<sup>‡</sup> Includes two "Outside Area" treatments.

## Dental Clinic Attendances: School Group Totals

## TABLE F 13

School	Total on Rolls	Children Attending Clinic	Total Clinic Attendances	Total Treatments
Primary	 50,894	8,443	27,912	33,097
Intermediate	 15,651	1,257	5,322	6,061
Technical, Preparatory, and Grammar	 11,436	681	3,059	3,522
Nursery and Nursery Centre	 346	48	114	133
Special	 948	222	504	892
TOTAL (All Areas and Schools)	 79,275	10,651	36,911	43,705

## Dental Treatment in Clinics

TABLE F 14

TREATMENTS	Area 1	Area 2	Area 3	Totals
EXTRACTIONS: Temporary Dentition	2,156	2,624 1,008	2,383 749	7,163 2,368
	2,767	3,632	3,132	9,531
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(24.12)	(23.22)	(18.88)	(21.81)
ANAESTHETICS:				
	30	260	96	386
General	1,486	1,936	1,862	5,284
	1,516	2,196	1,958	5,670
" (per cent of Treatments)	(13.21)	(14.04)	(11.80)	(12.97)
FILLINGS:	1	1	100000	
	1,519	2,318	2,179	6,016
	5,003	6,754	8,425	20,182
	6,522	9,072	10,604	26,198
,, (per cent of Treatments)	(56.84)	(57.99)	(63.93)	(59.94)
SPECIAL TREATMENTS:	766	1		
		-		010
	106	19	87	212
	100	10	000	212
Total	106	19	(0.52)	(0.49)
,, (per cent of Treatments)	(0.92)	(0.12)	(0.52)	(0.49)
SUBSIDIARY TREATMENTS:		0.10		070
Dressings (Tooth)	219	346	407	972 70
	17	21	32 45	279
	46 281	188 170	322	773
	E00	725	806	2,094
		(4.63)	(4.86)	(4.79)
" (per cent of Treatments)	(4.91)	(4.05)		
CLINICAL INSPECTIONS	3,140	4,924	5,053	13,117
TOTAL TREATMENTS	. 11,474	15,644	16,587	43,705

<sup>\*</sup> See Text of Report

ITEMS										
TREATMENT SESSION	S (Half	-day):								
Extractions Anaesthetics }				11.5	**			11	450	
Fillings Subsidiary Treatments Clinical Inspections	}								3,817	
Special Treatments									86	
	TOTAL	TREATM	ENT SE	SSIONS			**		4,353	

## **Dental Treatment Averages**

## TABLE F 16

	ITEMS				-	AVERAGE
TREATMENT AVERAGE	(Children):		7 1 1 1 1 1			
Extractions	(Per Child Treated)					1.6
Anaesthetics	(" " " )					0.9
Fillings	(,, ,, ,, )					4.4
Subsidiary Treatments	(,, ,, ,, )					0.3
Special Treatments	(,, ,, ,, )				1000	0.04
TOTAL TREATM	ENTS (Per Child Treated)				1000	7.2
TOTAL TREATM	ENIB (Fer Child Freated)					1.2
CLINICAL INSPECTION:					17-11-11	
Check Inspections	(Per Child Inspected)					2.8
TREATMENT AVERAGE	(Staff).					
Extractions	(Per Extraction Session)				pro Farmer	21.2
	(Per Anaesthetic)					
Anaesthetics	(Day Poster office Construct		**	**	1000	1.7
Fillings	(Per Filling Session)					12.6
Subsidiary Treatments	The state of the s		**	**		6.9
A	(Por Special Treatment Cont	::				0.5
	(Per Special Treatment Session		**			2.5
Clinical Inspection	(Per Treatment Session)					3.0
PATIENTS	(Per Surgeon)			177.	1 100	3,538.8
INDIVIDUALS TE	REATED (per Surgeon)					811.1

## Staff Complement: Clinic Accommodation

			ITEMS				TOTALS
Chief D	OMPLEME ental Office	NT:			 		1
	Officers		(Full-time) (Sessional)	} Equivalent Fu		199	10.43
Anaestl Dental	Clinic Nurs	ses	(Sessional) (Full-time)		 ::		6
Dental ,,	Attendants		(Full-time) (Full-time)	Administration Inspection			3
		::	(Full-time) (Full-time)	Dagantian	 		9.6
INICS:	TOTAL DE	NTAL S	STAFF: Full-tim		 		33.03
Area 1. Area 2.	(Dental :	ourgery	accommodation f	or 4 Officere)			1
Area 3.	(Dental S	Surgery	accommodation f	or 5 Officers)	 ::		1
7	TOTAL DE	NTAL (	CLINICS		 		4

ITEMS		1957	1958	1959	1959 compared 1958
SCHOOL DENTAL INSPECTION:					(per cent)
Schools visited		196	195	202	(+) 3.5
Visits		538	529	560	(+) 5.5
Notified for Inspection	474	531 75,701	529 76,274	560 81,256	(+) 5.5
Refusing Inspection	**	75,701	70,274	81,256	(+) 6.1
Absent from inspection (per cent)		(12.7)	(11.6)	(12.1)	(+) 0.5
Inspected		66,088	67,441	71,424	(+) 5.6
Defective	5.5	47,082	49,367	51,169	(+) 3.6
Defective (per cent)		(71.2)	(73.2)	(71.6)	() 1.6
POST-INSPECTION NOTIFICATION:				10000	
Notified as Defective		42,102	39,998	49,057	(+) 18.5
,, ,, (per cent)		(89.4)	(81.0)	(95.9)	(+) 18.5 (+) 14.9
		1	440.00	(4.4.4)	(1)
RESPONSE TO NOTIFICATION:					THE REAL PROPERTY.
No Response (per cent)		(8.0)	(9.0)	(13.8)	(+) 4.8 (—) 0.5
Refusing Treatment (per cent)	22.5	(13.7)	(13.2)	(12.7)	() 0.5
Consenting to Treatment:— Total (per cent)		(78.3)	(77.8)	(73.5)	() 4.3
By own Dentist (per cent)		(52.4)	(56.9)	(60.5)	( <del>-</del> ) 4.3 (+) 3.6
At Clinics (per cent)		(47.6)	(43.1)	(39.5)	(-) 3.6
TREATMENT ARRANGED:					
			Market No.		ALL PROPERTY.
Appointments—		15.050	10.400	14.000	1411 00
Issued (Total)		15,676	13,409	14,260	(+) 6.0
Per cent Clinic Applications		(100.0) (33.3)	(100.0) (27.2)	(100.0) (27.9)	(+) 0.7
ATTENDANCES AT CLINICS:					
New Patients (per cent)		(7.79)	(8.8)	(9.6)	(+) 0.8
Previous Patients (per cent)		(92.2)	(91.2)	(90.4)	(-) 0.8
Total Patients		44,661	38,255	36,911	(-) 3.5
Individuals		14,224	11,681	10,651	(-) 8.8
,, (per cent of Roll Defectives)	•••	(26.1)	(20.4)	(18.8)	() 1.6
TREATMENTS:			1915		198 3
Extractions—		0.500	0.000	7.100	1 120
Temporary Dentition		9,569 2,852	8,320 2,885	7,163 2,368	(—) 13.9 (—) 17.9
Total		12,421	11,205	9,531	(_) 14.9
Anaesthetics-					The second
Local		408	545	386	(-) 29.2
General	1.50	6,547	5,838	5,284	(-) 9.5
Total		6,955	6,383	5,670	() 11.2
Fillings— Temporary Dentition		5,322	4,937	6,016	(+) 17.9
Permanent Dentition		22,291	19,833	20,182	(+) 1.7
Total		27,613	24,770	26,198	(+) 5.5
			British B.		Control of the last
Special Treatments—		-	The state of the s		
Special Treatments— Orthodontic		010	000	919	(ala) 5.7
Special Treatments— Orthodontic X-Ray		210	200	212	(+) 5.7
Special Treatments— Orthodontic X-Ray Prosthetic	::	_	_		$\binom{(+)}{(+)} - \frac{5.7}{2.3}$
Special Treatments— Orthodontic X-Ray Prosthetic Dressings (Tooth)		210 	200 — 950 118	972 70	(+) 2.3 (-) 40.7
Special Treatments— Orthodontic	::	1,039 109 329	950 118 273	972 70 279	(+) 2.3 (—) 40.7 (+) 2.2
Special Treatments— Orthodontic X-Ray Prosthetic Dressings (Tooth) Scalings Polishings Other Operations		1,039 109 329 838	950 118 273 812	972 70 279 773	(+) 2.3 (-) 40.7 (+) 2.2 (-) 4.8
Special Treatments— Orthodontic X-Ray Prosthetic Dressings (Tooth) Scalings Polishings Other Operations Clinical Inspections		1,039 109 329 838 17,733	950 118 273 812 15,180	972 70 279 773 13,117	(+) 2.3 (-) 40.7 (+) 2.2 (-) 4.8 (-) 13.6
Special Treatments— Orthodontic X-Ray Prosthetic Dressings (Tooth) Scalings Polishings Other Operations Clinical Inspections TOTAL TREATMENTS	::	1,039 109 329 838 17,733 <b>49,514</b>	950 118 273 812 15,180 44,711	972 70 279 773 13,117 <b>43,705</b>	(+) 2.3 (-) 40.7 (+) 2.2 (-) 4.8 (-) 13.6 (-) 2.3
Special Treatments— Orthodontic X-Ray Prosthetic Dressings (Tooth) Scalings Polishings Other Operations Clinical Inspections		1,039 109 329 838 17,733	950 118 273 812 15,180	972 70 279 773 13,117	(+) 2.3 (-) 40.7 (+) 2.2 (-) 4.8 (-) 13.6

## Supplementary Dental Report

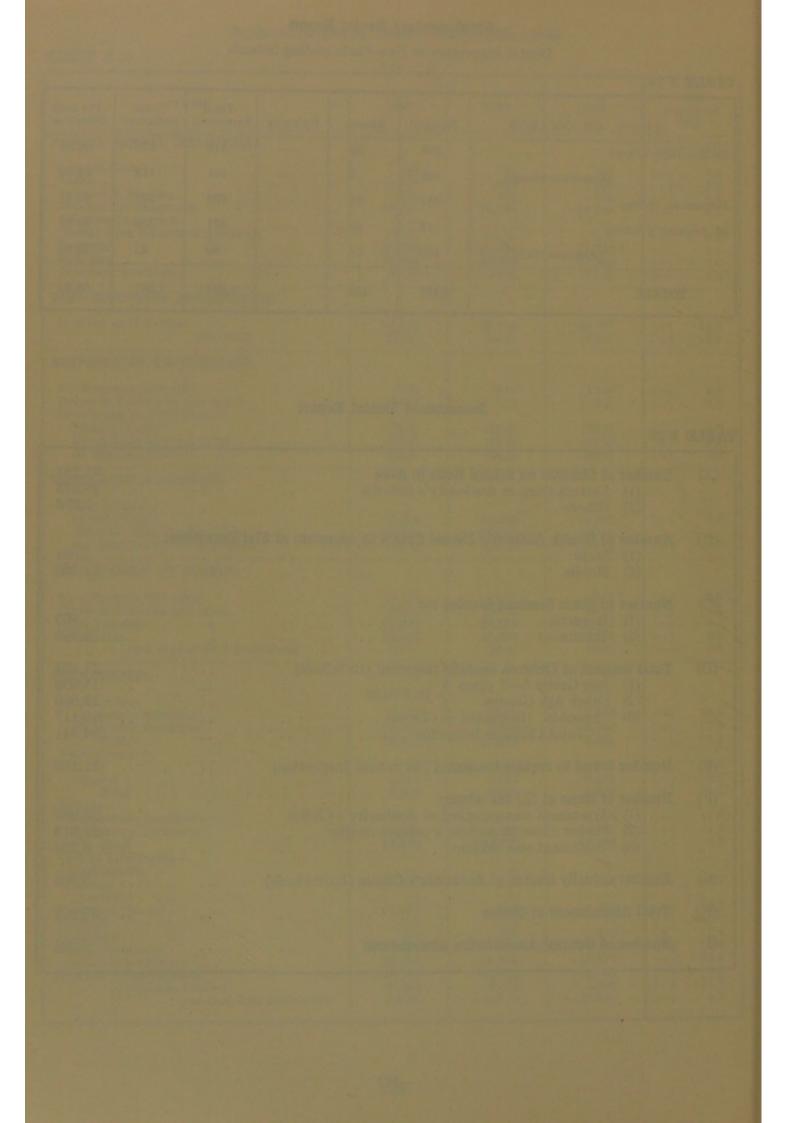
Dental Inspection in Non-Participating Schools

## TABLE F 19

SCHOOL OR COLLEGE	Notified	Absent	Refusing	Total Inspected	Total Defective	Per cent Defective
Belfast High School	 535	20	-	515	330	64.08
,, ,, (Somerton House)	 198 -	7	-	191	119	62.30
Dominican College	 557	23	-	534	227	42.51
St. Dominic's School	 717	46	-	671	349	52.01
,, ,, (Aquinas Hall)	 100	20	-	80	42	52.50
TOTALS	 2,107	116	-	1,991	1,067	53.59

## Summarised Dental Report

_					
(A)	Number of Children on School Rolls in Area (1) Participating in Authority's Scheme				81,251
1000					79,275
Part !	(2) Others				1,976
(B)	Number of Health Authority Dental Clinics in operation (1) Static	ion at 31s	t December:		Four
	(2) Mobile				Nil
	(=) 120010			• • •	1,11
(C)	Number of Clinic Sessions devoted to:				500
No.	(1) Inspection		**		560
1000	(2) Treatment				4,353
(70)					
(D)	Total number of Children dentally inspected (In Scho	ol)			71,424
The same of the sa	(1) Age Group 5—7 years (2) Other Age Groups In School				15,838
100					55,586
	(3) "Specials" (Inspected in Clinics)			98	13,117
	Total Children Inspected				84,541
The same of					01,011
(E)	Number found to require treatment (At School Inspec	ction)			51,169
(F)	Number of those at (E) for whom: (1) Treatment was accepted at Authority's Clir				14.000
	(2) Parent chose to consult a private dentist	ncs			14,260
					21,813
200	(3) Treatment was declined				6,224
(G)	Number actually treated at Authority's Clinics (Indiv	iduals)			5,996
(H)	Total Attendances at Clinics				36,911
(I)	Number of General Anaesthetics administered				5,284



## INDEX

							Page
							85-87
Abattoir: Report of City Veterinarian	**						96
After Care							48
Anaesthetics							114
Animals, Keeping of							33
Ante Natal Clinics							89
Area of City	**						6, 35
Ashbins, Provision of							39-46, 54
Audiometry, School Children							109, 114
Bakehouses							57-58
B.C.G. Vaccination						6, 20, 9	8, 99, 11, 114
Betting and Lotteries Act (N.I.), 1957	**		**	**	**	**	59
Births — : and Birth Rate		19			100		5
- : and Birth Rate	(Table)						12
- : Notification							88
Blind Children							112, 113
Bread Delivery Vans, Inspection of	***				**		58
Bronchitis, Deaths from Burial Grounds							34
Butchers' Shops, Registration of			::				73, 74
Cafes; Conditions on inspection							75
Cancer; Deaths from, by sex and site							13
Canteens, non-industrial; Conditions on inspe	ection						75
Chief Sanitary Officer's Penert		**					15
Chief Sanitary Officer's Report  Child Health Centres and attendances at							89, 90
Cinemas and Theatres							34
Citrus Fruits							68
Cleanliness of School Children	**						114
Colour Vision, School Children				**	**	**	108
— : Deaths and Death Rates					**		18, 91
- : Notifications by age periods and sexes							16
-: Notifications 1900-1959 (Table)							15
Confectionery, frozen					**		67, 68
Cysticercus Bovis; Occurrence in animals					**		52, 53
							0/
Dance Halls						CONTRACTOR AND ADDRESS OF THE PARTY AND ADDRES	34, 35
Deaf Children							112, 113
Deaths							
- : and Death Rate							5
-: Causes at different age periods (Table)	)	Contract of the Contract of th	11	**		***	13
— : Communicable Diseases						1.	8, 9
- : Communicable Diseases, 1890-1959 (T	able)						14
-: Rates and percentage of total deaths	by age grou	ps (Table	)				10
-: Trend of mortality from 1910 (Table) -: Infants under one year of age							11
- : Infants under one year of age from ce	rtain causes	(Table)		11	**	***	5
Defects discovered at routine medical inspec	tions						98, 104, 105
Delicate Children							112, 113
— : Analysis of Treatment sessions (Table							
-: Attendances at clinics	' ::	::	**	**			115 110 124
- : Chief Dental Officer's general remarks							115, 119-124
-: Chief Dental Officer's Report							115-127
— : Comparative Totals, 1957, 1958, 1959 — : Defects, classification (Tables)							126
-: Defectives, classification (Tables)		**		**	**	***	117
— : Inspection in schools					**	**	115, 117
<ul> <li>Inspection in non-participating school</li> </ul>	s (Table)						115, 117
Post-notification inspection and paren     Staff complement and Clinic accommo	its response						115, 118
-: Summarised report (Table)	Mation (Tal	ote)	**				125
- : Treatment averages (Table)				**	**	**	127
— : Treatment in clinics							115, 124
Deratisation of Ships Diarrhoea and Enteritis, deaths from							51, 52
							5

## INDEX-Continued

Diphtheria									Page
— : Deaths from									
— : Immunisation							::		5
- : Immunisation; tabl		ouping s	ince 1950						177
Disinfection								**	01
Drain Tests									95
Dysentery									5, 16
									0, 10
Ear, Nose and Throat Spe	acialiet								
Education Act (N.I.) 1947		**	111		**	***	**	**	109, 114
Educationally Sub-norma			**						100
Egg, Egg Powder and Egg		mnorted	**	0.0	**	100	***		112, 113
Enteric Fevers	g Atoumen, i			* *		**			68
Enteritis and Diarrhoea				**		250	**		5
Environmental Health Di	vision: Repo	rt of Sen	ior Medic	al Officer		55			18-20
Epileptic Children	··	re or bon	ior incure	ai Omicci		**	**	0.00	105, 110-113
Eye Specialist		1000			**		**		100 114
-2 - 1		1			**		1000	**	109, 114
Enterior Astronomy 1000	1050 11								190000
Factories Acts (N.I.) 1938	to 1959; Ad	ministra	tion of	* *	**				54-57
Food									00 00
- : and Drugs; visits to			**	*.*					62-77
- : and Drugs; samples					***				63-65
- : adulterated; legal p		Care	* *						65
- : inspection by Port		icers			***				53, 54
- : poisoning		**		**					18
- : premises: Inspection	15 01								73
-: unsound	etration of		**	**		**	**	**	54,69-70
Fried Fish premises, Regi	stration or	**							76, 77
Fumigation of Ships		100	**	**		**	**		31, 32
General Observations by I	M.O.H.		+ +						6, 7
Hairdressers Act (N.I.), 19	939								38
									113
Handicapped Pupils.									99, 112
Head Cleansing; School ch									114
Health Committee, 1959					7.				2
Health Education									6
Health Visiting; Maternity	v and Child l								88, 89
Height, average, of school					1. 19				98, 101
Home Nursing Service									95, 96
Home Visits, School Child	lren (Tables)								109, 114
Homes, Mother and Baby									90
Houses Let in Lodgings									29, 30
									26-32
Hydrogen Cyanide (Fumi									80
	· constant or contra								
I - Commission Cond	itions on Inc	nantian							72
Ice-Cream Premises; Cond					***				71
Ice-Cream, Bacteriologica	Dishtherie	Whoonir	or Cough	and Polis	myelitie	110 4500			10 20
Immunisation; Smallpox,									5, 88, 93 95
Infant Mortality		100	**						94
: age groups (Table)     : causes and sex (Table)					-	100			94
Influenza, Deaths from			(was	F121 11	19				5
Insects other than Mosqui	itoes: Infesta						-		80
Inspections	Tool, Linesta	-	100	100	-	1994			
— : Cleanliness of School	ol Children	2.	505	1.	1	220	100		114
- : Routine Medical, of		2000					**		97, 98, 100
Itinerants									22
Legal Proceedings taken u	under variou	s Acts A	nalysis of	(Table)			**		82, 83
Licensed Premises and Bo	ttling Stores	conditio	ns discove	ered		-			75, 76
Licensed Fremises and Bo	timig Stores,	Conditio							39
Lodging Houses; Common				100	100	The same of the sa		7/12	
									112, 113
Maladjusted Children	C Francisco es	nd Whol	ocala Dani	lore	**	-			68
Margarine; Registration of				icis	11				36
Marine Stores	ata.			1.1	1000	100			. 5
Marriages and Marriage R	ate		**	**				**	92
Maternity Medical Service				**		100	100		5, 88, 95
Maternal Mortality	according to		death /T	able)					95
Maternal Mortality; Rate Maternity and Child Heal	th Division:	Report 1	v Senior	Medical					88-96
Marchan and Child Heal	th Division;	report	J Jonior				++		5
Measles Ve	terinarian's	Report							85-87

		INDE	X-Cont	inued					
									Page
	LOTTI	1045							60
Medicines, Pharmacy and Poisons Ac			***			**	3.3		68
Merchandise Marks Acts 1887/1953								1.	91-92
Midwives, Domiciliary Milk Control									65-67
Milk in Schools; Provision of									67
Mineral Waters									67
Mother and Baby Homes (Table)								- 11	90
Neo-Natal Deaths (under one month)									5, 88
Nurseries; Residential			123	1.5		**	***		90
Nuisances; under Public Health Acts									32, 33
	Cahaala		**	**		**			92 100, 112
Nursery Schools, Centres and Special Nutrition of School Children	Schools								98, 103
Nutrition of School Cimuren	0.00			***		**	**		50, 100
Offensive Trades									36
Office Accommodation, Inspection of									59, 60
Ophthalmia Neonatorum; Notification	ns of								91
Orthoptic Treatment									114
Outworkers Premises				5.20					56, 57
THE RESERVE THE PARTY OF THE PA									
Parents at Medical Inspections			1.						97, 101
Partially Deaf Children									112, 113
Partially sighted Children	**								112, 113
Pests Control	**	**							77-80
Physically Handicapped Children Physiotherapy, School Children									112, 113
Piggeries			11	**		**			109, 114
Pneumonia, Deaths from					**	**		**	5
Poliomyelitis							- 11		18, 19, 21
Population									5
Population; Table showing population	a each ye	ar from		59					12
Port: Amount of Shipping entering d	uring the	year							46
									47
									46-53
Public Health (Imported Food) Regu	lations 1	937-1948							53
Public Health (Imported Milk) Regul Public Health (Preservatives etc., in			1007 1	059					53
Public Health (Prevention of Contam	ination o	f Food)	Remlat	ione (N I	1 1049	• •	**	**	53
Puerperal Fever; Notifications of	mation c			and the second	**				74-76
Pupils, Handicapped						100	973	**	91 112, 113
						****			112, 110
Rag Flock Act, 1911									61
Rainfall									84
Re-examination of School Children	1.10	***							100, 110
Refuse Collection and Disposal	A ata /NT	T 1 1000	1050						23
Rents Restriction Law (Amendment) Restaurants; Conditions on Inspection	Acts (N.	1.), 1920	1-1956						30
Rivers									75
Rodents, Measures against at Port				**					37, 38
								7.7	51, 52
Sale of Ice-Cream Acts, 1937 and 195	7		100	1000	77.05				-
Sale of Food and Drugs Acts									62, 63
Sanitary Section: Report of Chief San	itary Off	icer					• • •		22-83
Sanitary Conveniences, Public									35
Scarlet Fever									81
School									5
- : Buildings; Sanitary Inspection	of								
-: Graymount Open-Air				**	**				36, 37
School Health Division: Report of Ser	nior Medi	cal Offic	er.	13					114
SCHOOLS;	- Inodi	Jul Ollic		200	**	***	**		97-114
— : Grant-aided	10			100					07.100
- : Special				77	11		**		97-100
School Children:			2000						100, 112
-: Average Heights and weights		3.57							98, 101
Defects discovered at Medical I     Educationally Sub-normal		n.							104, 105
- Vitteition									112, 113
-: Re-examination group									98, 103
- : Routine Medical Inspection	::	11							110
- Inperior						**		97	7, 98, 100

## INDEX-Continued

										Page
Sewerage and Sewage Disp	osal									
Shellfish					**		***		**	23
Shops Act (N.I.) 1946; Insp	pections un	der		**	**	**				54
					**		**	**		61, 62
Snack Bars; Conditions on					**	**	**	**		39-46, 54
Special Examinations of Sc	hool Child	ren						**	**	75
Speech Defects		4.			**		**	**	104	97, 100
Speech Therapy										, 109-114
Squints in School Children				**	**	**	**	00	104	109, 114
CL-11					**					110, 111
Staff; At 31st December, 19				20	**		**	**		33
Statistics, Comparative, for	certain Co	ounties a	nd Count	v Borong	he		**	1.4		3, 4
Still Births		· ·		y Doroug		***	**	**	**	10
Sweetmilk Sampling; Partie	culars of							**	* *	5
Continue on the or Do About The Little				**			2.2	* *		66
		**	4.4%				* *			25, 26
Tuberculin Tests, School Cl	hildren								05	00 100
Tuberculosis, Respiratory S	vstem: De			ate				***		3, 99, 108
Tuberculosis in Animals, pe	ercentage in	ncidence			**			3.5	**	5 87
					**					18
— : Deaths from					**			**	2.5	
and the second second second second			***	**	**		**			5, 14
Ultra-violet Light Therapy										114
The second secon										114
Vaccination				4.2			-		15	9, 20, 102
Venereal Diseases, among S	ailors									50
Verminous Persons										81
Vision, Colour, in School Cl	nildren									98, 108
Visual Acuity, School Child										106, 107
Vital Statistics										5, 6
The state of the s	-	000		350	27/12		100		The state of the s	0,0
Water Supplies		**			100		**			23-25, 48
Weight, Average of School										98, 101
Whooping Cough										5, 18
- : Immunisation										17, 19

