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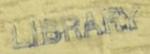
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CITY OF



CARLISLE

# ANNUAL REPORT

OF THE

# MEDICAL OFFICER OF HEALTH

FOR THE YEAR

1951

JAMES L. RENNIE,

M.D., F.R.F.P.S. (Glasgow), D.P.H.,

MEDICAL OFFICER OF HEALTH.



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# INDEX

Page	Page	Pa	
Ambulance Service 55	Home Help Service 57	Provision of Nursing	
Ante-natal Clinics 47	Home Nursing 53 Hospitals 63 Housing 67, 68, 79	Equipment &	
Ante-natal Cliffics 47	Hospitals 63	Equipment & Apparatus Public Analyst Service Public Cleansing	56
Area of Borough 3, 7	Hausing 67 68 70	Public Analyst	,0
Bacon Factory,	Housing 01, 00, 10	Sorvino	CA
Harraby 4, 69, 88, 91	Housing	Service	04
Births 7, 8 Bronchiectasis 40	Overcrowding 80	rubite Cleansing-	
Bronchiectasis 40	Housing Statistics	Director of 3,	17
	80, 81	Public Conveniences	75
Cancer 11, 12		Public Health	
Cancel Mothers &	Too Cream 68 87	Laboratory Service	
Care of Mothers & Young Children 47-49 Care of Premature Babies 48	Infantila Mantality	4, (	
Toung Children 47-49	infantile Mortality	Public Slaughterhouse	
Care of Premature	3, 7, 8, 10	1 00 001	175.78
Babies 48	Infants—Premature,	4, 69, 88-	01
Carlisle Ext. Act 3	Care of 48	Puerperal Pyrexia	20
Cerebro Spinal	Infectious Diseases	and the second second second	
Fever 24	3, 23-26, 74	Refuse Collection &	
Child Welfare	Infectious Diseases	Disposal 17-	19
Clinics 48	Notifications 92	Refuse-Storage of	
Cinamas etc. 74	Tuducanons 24	Household	79
Chemas, etc.	Innuenza 24	Pivor Pollution	71
Closet Accom-	Hegitimacy 8	Dedent Central	70
modation 71	Infants—Premature, Care of 48 Infectious Diseases 3, 23-26, 74 Infectious Diseases Notifications 23 Influenza 24 Illegitimacy 8 Inquests 12	Rodent Control	10
Common Lodging			
Common Lodging House 68, 72 Controlled Tipping 3, 18	Malaria 24	Salvage 3, 18,	
Controlled Tipping 3, 18	Mass Radiography 41	Sanitary Circumstance	28
Convalescent	Mataunal Martality 7	3, 15-	19
Convalescent Treatment 57	Maternal Mortality 7, 8	Sanitary Inspector's	
Treatment of	Maternity Outfits 48	Report 4, 67-	93
Day Nursonies 51	Meat Inspection 88-91	Sanitary Inspection	
Day Nurseries 51 Deaths 7-12	Mental Illness &	Statistics 78	70
Deaths 7-12	Defectives 56, 57-60	Statistics 76- Scabies Scarlet Fever Sewerage	00
Dental Services 49, 50	Merchandise Marks	Scables	20
Destructor Works 19	Act 87	Scarlet Fever	24
Diphtheria 4, 24 Diphtheria Immunisation 54	Midwifery Service	Sewerage	71
Diphtheria	51, 52	Sewerage & Sewage	
Immunisation 54	M:11- Complex 60 00 05	Disposal Shops Act Smoke Abatement	17
Domiciliary	Milk Supply 69, 83-85 Mortuary 12	Shops Act	75
Midwifery 51	Mortuary 12	Smoke Abstement	74
Drainage & Sewerage 71	Mother & Baby	Cmallner	24
Dramage & Sewerage /1	Homes 51		
Factories Ast			72
Factories Act,	Nat. Asst. Act 64	Statistics-Vital	200
Statistics 82		3, 7-	
Fees for Notification	Nat. Health Service	Stillbirths 7,	8
of Inf. Disease 26	4, 47-60		
Fertilisers & Feeding	Nursing Homes,	Tents, Vans and	
Stuffs Act 75	Registration of 64	Sheds	72
Food & Drugs Act		Tuberculosis	
69, 91-93	Occupation Centre,		56
	Mental Health 60		
	Offensive Trades 74	Typhoid	25
Food Premises 85			200
Food—Inspection &	Ophthalmia	Vaccination 4,	
Supervision of 83	Neonatorum 25		35
Food Poisoning 24	Overcrowding 80	Venereal Diseases	26
General Practitioner	Pneumonia 24	Waste Land-Tipping	
Obstetricians 52	Poliomyelitis 3, 25	on	69
Health Centres 47	Population 3, 7	OIL	71
Health Education 57		The state of the s	49
11 - 1:1 /4 .		Welfare Foods	+0
II III TT' III	Prev. of Illness—Care		00
Health Visiting 52, 53	& After Care 56-60	Zymotic Diseases	23

To His Worship the Mayor, and to the Aldermen and Councillors of the City and County Borough of Carlisle.

Mr. Mayor, Ladies and Gentlemen,

I have the honour to present my fifth Annual Report on the health of the City. During the year, the Carlisle Extension Act, 1950, came into force and the area of the Borough was increased from 4,488 acres to 6,092 acres.

Section I. Vital Statistics.

In spite of the increase in the area of the Borough, there has been a decrease in the mid-year population. This decrease is due to the fact that the Census taken in 1951 enabled the Registrar-General to give a more accurate estimate of the population than had been the case in recent years. One gratifying feature is the maintained low level of the Infantile Mortality Rate; this year's figure being the lowest ever recorded for the City.

Section II. Sanitary Circumstances.

Progress has been made with the rehousing of persons in premises represented before the war, and it is hoped that within a measurable distance of time all people occupying such dwellings will have been rehoused.

During the year, Mr. S. K. Sheldon was appointed Director of Public Cleansing and took up his duties on the 16th April. In spite of great difficulties, controlled tipping has been successfully instituted. The scarcity of waste paper made salvage operations most profitable, but it is necessary to point out that the prime purpose of the Refuse Disposal Department is to maintain the City in a hygienic condition so that the other branches of the Health Service may not carry out their work in vain.

Section III. Occurrence and Control of Infectious Diseases.

There was an increase in the number of notifications of infectious diseases throughout the year, but the only prevalent disease was measles, which accounted for over 70% of all notifications. Only one case of confirmed poliomyelitis occurred in the City.

Section IV. Tuberculosis.

A separate Section has been contributed by Dr. Hugh Morton, Consultant Chest Physician. The results of the long-sustained efforts in the prevention and cure of this disease are bearing fruit, but considerable work remains to be done before this scourge can be eradicated from the community. I would appeal to patients and their relatives to carry out the instructions which they are given so that the danger of spread of the infection may be reduced to a minimum.

Section V. Services provided under Part III of the National Health Service Act.

I am pleased to report a year of progress in the Services provided under this Section. I should like to stress the advisability of all infants being vaccinated. The paucity of vaccinations, as shown in the body of the Report, proves that the number of parents having their children vaccinated in infancy is far from satisfactory. I would also like to point out to parents that, although there has not been a case of diphtheria in the City for two years, outbreaks have occurred elsewhere, and in the event of an outbreak in Carlisle it would be too late to expect benefit from immediate immunisation. Parents should endeavour to have the first immunisation carried out before the child is one year old.

Section VI. General provision of Health Services.

The general provision of health services continued this year unaltered, and the close liaison with the Public Health Laboratory Service at the Cumberland Infirmary was maintained in the investigation and control of infectious disease.

Section VII. Sanitary Inspector's Report.

In this Section is set out Mr. Boaden's first report as Chief Sanitary Inspector for the City. I would particularly draw attention to the steady increase in the throughput of animals at the Public Slaughterhouses and the Harraby Bacon Factory. Only by the thorough systematic examination of carcases by your Sanitary Inspectors at these premises can the public be protected from animal borne diseases. The increasing amount of time necessary to do the work at both of these premises naturally puts a considerable strain on the Sanitary Inspectorate.

I desire to record my sincere thanks and appreciation for the willing service and excellent co-operation of all members of the staff of the Department. The friendly co-operation of medical practitioners and hospital staffs has gone far to make for smooth working and is very much appreciated.

To the Chairman and Members of the Health Committee I desire to express my thanks for the help, encouragement and support they have given to me throughout the year. I would also like to record my indebtedness to the Town Clerk and other Chief Officials and their staffs for willing co-operation and assistance.

I am, Mr. Mayor, Ladies and Gentlemen,
Your obedient servant,

JAMES L. RENNIE,

Medical Officer of Health.

SECTION I.

VITAL STATISTICS

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	7		
	VITAL ST	ATISTIC	cs
Population (1951), I	Estimate of I	Registrar-	6,092
EXTRACTS FR	OM VITAL S	TATISTIC	S OF THE YEAR
	Registrar-Gene		
	Total. 1121 61	M. 573 32	F. 548 29 Birth-rate, 17.56 per 1,000 population.
Birth-rate per thou Comparability factor		The second second second	n as corrected by Area
Still-births	46	33	Rate 37.46 per 1,000 total births.
	926	447	Death-rate 13.76 per 1,000 population. as corrected by Area
Comparibility factor			as corrected by Area
Deaths from diseases and childbirth— From Sepsis From other	and acciden		gnancy — —
Death-rate of Infantlive births—	ts under one	year of	age per 1,000
Legitimate Illegitimate			24.1 49.2

# POPULATION.

Diarrhœa (under 2 years of age) ...

Deaths from Whooping Cough (all ages)

Total, 25.38

The estimate of the population at mid-year 1951 supplied by the Registrar-General was 67,300. This figure has been used in making the appropriate calculations in this report.

## BIRTHS

#### Live Births

The total number of live births credited to the City during the year was 1,182, giving a birth rate of 17.56 per thousand of the population. It should be pointed out that a certain number of these children were born to Scottish parents, but these not being transferable are included in the Carlisle figures. Their inclusion increases the birth rate of the City to a slight extent.

# Illegitimate Live Births

61 of the above births were illegitimate, so that the illegitimacy rate was 51.61 per thousand of the total live births.

# Still-Births

It is noted with regret that there has been an increase in the number of still-births to 46, giving a still-birth rate of 37.46 per thousand total births. Two of the still-births occurred in domiciliary practice and the remainder in hospital. This proportion is, of course, to be expected as the hospital usually takes over all abnormal cases.

#### DEATHS

The total number of deaths credited to the City was 926 producing a death rate of 13.76 per thousand of the population.

Table 1 shows the cause of death and the age at death of the 926 persons mentioned above.

# Maternal Mortality

It is with pleasure that I can record another year without any maternal deaths.

# Infantile Mortality

The total number of deaths under one year of age credited to the City was 30, giving an infantile mortality rate of 25.38 per thousand live births. This is the lowest rate ever recorded in the City. This rate includes the deaths of 4 Scottish infants and if these, as well as the Scottish births, had been transferable, the net infantile mortality rate of the City would have been 23.15 per thousand live births.

Table 2 shows the causes of the infant deaths, and indicates the age and the month in which the deaths occurred.

TABLE 1

NETT DEATHS AT THE SUBJOINED AGES OF "RESIDENTS" WHETHER OCCURRING WITHIN OR WITHOUT THE CITY										TOTAL DEATHS WHETHER OF "RESIDENTS" OR "NON-RESI-
CAUSE OF DEATH.	All Ages	Under 1 year	1 and under 5	5 and under 15	15 and under 25	25 and under 45	45 and under 65	65 and under 75	75 and up- wards	DENTS" IN INSTITUTIONS IN THE CITY
1.	2	3	4	5	6	7	8	9	10	11
All Causes { Certified Uncertified	871 55	30	5	10	10	35 2	234 19	206 15	341 19	492 19
Tuberculosis, respiratory Tuberculosis, other Syphilitic Disease Diphtheria Whooping Cough	1 1	11111	1 1 - -	- 2 - 1	3	6	12 - 2 -	1 - 2 -	_ _ _ _	5 10 4 - 1
Meningococcal infections Acute Poliomyelitis Measles Other infective and parasi-	-	_		- 1				Ξ		1 _
Malignant Neoplasm, stomach		-	_	-	=	1	<u>-</u> 6	10		1 13
bronchus Breast Uterus Other malignant and lym-	23 9 9	111				_ _	19 3 9	3 3	1 1 -	7 7 6
phatic Neoplasms Leukaemia, aleukaemia Diabetes	1	=		1 1 :		1 _ _	25 1 1	15 - 2	17 —	54 2 4
Vascular lesions of nervous system Coronary disease, angina Hypertension with heart	142 95	=	=	=	=	1 -	28 38	41 26	72 31	47 <b>2</b> 5
Other heart diseass Other circulatory disease Influenza Pneumonia Bronchitis Other diseases of respiratory	33	- - 1 5 1	2	_ _ _ _ 1	- - - -	7	4 31 4 4 4 14	8 63 11 3 3 14	2 167 18 7 11 12	2 66 29 4 24 17
Ulcer of the stomach and	4	-	-	-	-	-	1	2	1	1
duodenum Gastritis, Enteritis and	8	-	-	-	-	2	6	-	-	10
Diarrhoea  Nephritis and Nephrosis  Hyperplasia of prostrate  Pregnancy, Childbirth,	11	1 -			111	1 2 -	4	1 4 2	1 2	6 2 10
Abortion	10	7	=	=	Ξ	2.	-1	Ξ	=	1 8
Motor vehicle accidents All other accidents Suicide Homicide and operations of	60 5 17 5	15 — —	1111	3 - 2 -	2 1 2 1	7 1 -4	18 1 6 —	4 1 4 -	11 1 3	108 11 24 —
war	_	-	-	-	-	-	-	-	_	-
TOTALS	926	30	5	10	10	37	253	221	360	511

			10	
1		Total Deaths under one Year	99 21 1 1 1 1 2 9 9 1 1 1 1 1 1 1 1 1 1	30
	-	Dесешрет.	4     0   0	4
		Мочетbег	9	2
		Осторет	-4 1-1 11111	-
		September	-1        -	-
		4su2nA	4   01   -   -	4
	TH	July		1
	MONTH	ounc	11 11111111	1
	-	May		-
		lingA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5
		March	8	60
		February	-1 -1111111	1-
		Januat	ω   ω -   ω   -	80
		9 Months & und'r 12 M'nths		-
		6 months & under 9 M'nths	101 101 101 111	5
		3 Months under 6 M'nths	8	100
	E	4 W'ks & under 3 Months	4     0   0   1   1   1	4
	AGE	Total under	6 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17
		3-4 Wеекѕ	11 11111111	1
		2-3 Weeks	11 11111111	11
		1-2 Wеекв		1
		Under 1 Week	1   1   1   2   6   1   6   1   6   1   1   1   1   1	16
		CAUSE OF DEATH	All Certified Causes Uncertified Prematurity Congenital Malformations Birth Injury Atelectasis Pneumonia Gastro-Enteritis Bronchitis Asphyxia Influenza Hydramnios	TOTALS

# DEATHS DUE TO CANCER

Table 3 shows the age and sex distribution of the 127 persons who died from Cancer of various organs during the year under review. The mortality rate from this disease being 1.9 per 1,000 of the population.

TABLE 3

AGE GROUPS.	45-55 55-65 65-75 Over 75 Totals	F. M. F. M. F. M. F. M. F.		2 12 3 12 7 5 7 89 19	1 12 1 3 1 1 - 23 3	2 7 9	1 - 5 6			1 1 1 1 1 2 3			1 1 2 2 4	7 25 23 18 13 11 9 72 55
	35—45	M. F.		-		1		- 2	1	1		1	-	1 3
	25—35	F.	1	1	1	1	1	1	1	1	1	1	1	1
	25 2	F. M.					1				1	- 1	1	1
	1-2	M.	1	1	1	1	1	1	1	1	1	1	1	1
3/	ler Fear	E.	1		1	1	1	1	1	1	1	- 1	1	1
	Under One Year	M.	1		1	1	1	1	1	1	1	1	1	1
	Site of Disease		Buccal Cavity and Pharynx	Digestive Organs and Peritoneum	Respiratory System	Uterus	Other female genital organs	Breast	Male genital organs	Urinary organs	Skin	Brain and Nervous System	Other organs	Totals

Table 4 sets out the deaths from Cancer from 1942-1951.

# TABLE 4

# DEATHS FROM CANCER, 1942-51.

1942. 1943. 1944. 1945. 1946. 1947. 1948. 1949. 1950. 1951. 107 ... 104 ... 113 ... 128 ... 115 ... 111 ... 121 ... 118 ... 124 ... 127

# Inquests

During the year the City Coroner held 49 inquests. Of this number 24 related to deaths of persons who resided within the City, and 25 to persons who resided in other districts but who died within the City. 5 related to children under five years of age, one of which was a City child.

#### Uncertified Deaths

62 deaths were registered in which no certificate was given by a medical practitioner, and in which no inquest was held. 51 of these were in respect of City residents.

During 1950, 61 such deaths were registered.

# Mortuary

49 bodies were removed to the Public Mortuary, post-mortem examinations being made in 41 instances.

# SECTION II.

SANITARY CIRCUMSTANCES

III HOLTON

SANITARY CIRCUMSTANCES

# SANITARY CIRCUMSTANCES

# WATER SUPPLY

I am indebted to the City Water Engineer and Surveyor for the following Report:—

The Water Supply in the area has been satisfactory in quantity and quality throughout the year.

Regular bacteriological examinations have been made of the water in its various stages of treatment, from the raw water to the final supply. In all, 22 samples of the fully treated water have been examined bacteriologically, and all show the water to be highly satisfactory in this respect.

The Chemical Analyses of the water afford no evidence of pollution by undesirable drainage of any kind, and it is of good and wholesome quality for human consumption. In all, 10 samples of water were subjected to a chemical analysis during the year.

A test for plumbo-solvency is included as part of every chemical analysis, with the following results:—

Lead eroded or dissolved after 24 hours at 20°C.

Nil in 7 samples.

0.055 parts per 100,000-30th June, 1951.

0.17 parts per 100,000-24th September, 1951.

0.032 parts per 100,000—31st December, 1951.

An alkaline solution dosing plant has been installed to counteract any future seasonal plumbo-solvency tendencies.

Water was supplied to householders as follows: -

| (a) | Direct to the houses: No. of houses supplied | <br> | 19,256 |
|-----|--|------|--------|
|     | Estimated population supplied                | <br> | 65,594 |
| (b) | By means of standpipes:                      |      |        |
|     | No. of houses supplied                       | <br> | 501    |
|     | Estimated population                         | <br> | 1,706  |

Table 5 shows the total quantity of water supplied and the quantity per head per day for the years 1950 and 1951:—

#### TABLE 5

|      |     | No    | . of Gallo | ns. | Gallons | per head |
|------|-----|-------|------------|-----|---------|----------|
|      |     | 00000 |            |     |         | r day.   |
| 1950 | *** | 1,    | 182,692,00 | 0 . |         | 40.50    |
| 1951 |     | 1,    | 247,110,00 | 0 . |         | 42.70    |

In addition to the regular examinations carried out by the Water Engineer's Department, periodic specimens are obtained from domestic supplies in the City and submitted to the City Analyst and Bacteriologist for appropriate examination. Tables 6 and 7 set forth the results of these tests.

TABLE 6

Results of chemical examination of samples of water:—

| 1                                   | 1                 | 1                         |                          |                           |
|-------------------------------------|-------------------|---------------------------|--------------------------|---------------------------|
| RESULTS SHOWN IN PARTS PER 100,000. | 15th<br>February. | 6th June.                 | 13th<br>September        | 13th<br>December.         |
| Chlorines as Chlorides              | .9000             | .7250                     | .8750                    | .8500                     |
| Nitrogen as Nitrates                | .0174             | None                      | .0237                    | .0494                     |
| Ammonia                             | .0247             | Faint trace               | Trace                    | None                      |
| Albuminoid Ammonia                  | .0174             | Faint trace               | .0047                    | .0030                     |
| Oxygen absorption                   | .0629             | .0992                     | .3347                    | .2520                     |
| Injurious Metals                    | None              | None                      | None                     | None                      |
| Total Solid Matter dried at 100° C  | 12.0000           | 13.0000                   | 12.0000                  | 12.0000                   |
| Temporary Hardness                  | 4.2°              | 4.6°                      | 2.90                     | 2.00                      |
| Permanent Hardness                  | 4.10              | 3.4°                      | 4.8°                     | 5.2°                      |
| Free Alumina                        | None              | None                      | None                     | None                      |
| P.H. Value                          | 7.3               | 7.4                       | 7.1                      | 7.2                       |
| Colour of Sample on<br>Hazen Scale  | 19.               | 11.                       | 32.                      | 25.                       |
| Appearance in two-foot tube         | Bright            | Bright                    | Bright                   | Bright                    |
| Odour when heated to 50° C          | None              | None                      | None                     | None                      |
|                                     | atisfactory       | Satisfactory              | Satisfactory             | Satisfactory              |
| Lead Dissolved or<br>Eroded         | None              | .055 parts<br>per 100,000 | .17 parts<br>per 100,000 | .032 parts<br>per 100,000 |

TABLE 7
Results of Bacteriological examination of samples of water:—

|                      | No. of Colonies in |           |           |               |           |           |  |  |  |  |  |
|----------------------|--------------------|-----------|-----------|---------------|-----------|-----------|--|--|--|--|--|
| Date when sample was | 0.1                | M.L.      | 1 :       | M.L.          | 10 м.г.   |           |  |  |  |  |  |
| taken.               | At 22° c.          | At 37° c. | At 22° c. | At 37° c.     | At 22° c. | At 37° c. |  |  |  |  |  |
| 7th March            | miner lie          | n india   | 2         | 1 7 1 1 1 1 1 | 17        | 2         |  |  |  |  |  |
| 5th June             | -                  | -         | 3         | -             | 37        | 2         |  |  |  |  |  |
| 12th Sept            | _                  | -         | 2         | mb2_3 1       | 24        | 3         |  |  |  |  |  |

#### SEWERAGE AND SEWAGE DISPOSAL

I am indebted to the City Surveyor for the following report:—
The construction of new sewers on housing estates has been completed on Belah and Strathclyde Estates and is continuing on the Harraby Estate.

Work started on the Harraby—Durranhill Trunk Sewer last November, the tender of £30,282 submitted by Messrs. John Laing & Son, Ltd., having been accepted, and it should be completed by June, 1952.

In connection with the scheme for the disposal of the liquid portion of the sewage delivered to Willow Holme Works, a tender has been accepted for portions of the civil engineering works involved, and the Ministry of Housing and Local Government has granted a starting date of 1st May, 1952.

# REFUSE COLLECTION AND DISPOSAL

In 1950, after a thorough investigation into the methods of Refuse Collection and Disposal in the City, the Council decided to abandon the project of building a Refuse Destructor Works and concentrate on disposal of refuse by controlled tipping. In the past, the Chief Sanitary Inspector had to supervise the collection and disposal of refuse in addition to his many other onerous duties, and in order to free the Chief Sanitary Inspector of this work and to provide adequate control, it was decided to appoint a Director of Public Cleansing who would be responsible for this particular work under the general direction of the Medical Officer of Health, in a similar manner to the Chief Sanitary Inspector. This Officer, Mr. S. K. Sheldon, commenced on 16th April, 1951, and I am indebted to him for the following report on the work in his Section:—

# Refuse and Salvage Collection

A fleet of 11 S. & D. refuse collection vehicles, together with 1 Austin general purpose lorry and 7 horse-drawn vehicles, were used in the operation of this service. Refuse was collected twice weekly from almost all residential areas and daily from the shopping area in the centre of the City.

Two new 9 cu. yard Chelsea type S. & D. vehicles, with wheel type steering, were purchased and put into operation and one old S. & D. freighter type vehicle which had been in daily service for over 25 years was disposed of as scrap.

A separate collection of salvage on one day each week was maintained from all residential properties.

Statistics relating to the quantity of house and shop refuse collected are as follows: —

Motor vehicle loads of refuse collected-

10,400 Est. Weight-15,600 tons.

Horse vehicle loads of refuse collected-

4,368 Est. Weight- 4,914 tons.

Total

14,768

20,514

# Refuse Disposal. Controlled Tipping

Refuse was disposed of by controlled tipping at Blackwell Tip and at Botcherby Tip. A number of factors, amongst which were difficulties in obtaining suitable labour and in obtaining adequate quantities of covering material, had caused the condition of the tips to fall below desirable standards during recent years, and an effort was made to regain the position. To this end, during the summer months regular daily supplies of ashes from the Electricity Works were purchased and a very considerable improvement was effected, but unfortunately during the autumn supplies of this most suitable covering material ceased. This made effective controlled tipping very difficult if not impossible, and nuisance was prevented only by the utmost attention to detail. Negotiations continued with a view to obtaining a permanent supply of ashes for tip covering, and by the end of the year an agreement for the purchase of suitable ash covering had been negotiated.

In November, the newly-appointed refuse disposal foreman spent two weeks in Bradford undergoing a thorough course of instruction in the disposal of refuse by fully controlled tipping.

# Refuse Disposal. Destructor Works.

A small two-cell Heenan & Froude destructor works is operated for the burning of putrescible refuse, and the following statistics indicate the amount of material disposed of in this manner:—

| Vegetables | and mise | cellane | ous | <br>252   | tons     |
|------------|----------|---------|-----|-----------|----------|
| Fish Offal |          |         |     | <br>61    | 1 ,,     |
| Eggs and c | hickens  |         |     | <br>844   | bins     |
| Dogs       |          |         |     | <br>1,186 | carcases |
| Cats       |          |         |     | <br>861   | ,,       |
| Hens       |          |         |     | <br>150   | ,,       |
| Sheep      |          |         |     | <br>35    | ,,       |
| Calves     |          |         |     | <br>6     | ,,       |
| Other anim | als      |         |     | <br>13    | ,,       |

# Salvage Disposal

As the Mission Hall in South John Street which was used for baling and storing waste paper was proving inadequate for this purpose, a new paper baling depot was erected at Willow Holme on the advice of Mr. Hanson, the former C.S.I., and was opened in May. This depot, which is capacious and equipped with all necessary facilities for the work has proved extremely valuable during a year when the high prices pertaining for this material have encouraged maximum effort to increase the tonnage of paper collected.

The amount and nature of salvage recovered and sold during the year is as follows:—

|          |      |      | Tons. | Cwts. | Qrs. | Lbs. |
|----------|------|------|-------|-------|------|------|
| Paper    |      | <br> | 604   | 10    | 3    | 0    |
| Iron     |      | <br> |       | 17    | 2    | 0    |
| Tins     |      | <br> | 27    | 5     | - 0  | 0    |
| Other me | tals | <br> |       |       | 2    | 4    |
| Textiles |      | <br> |       | 2     | 6    | 21   |
| Bones    |      | <br> |       | 11    | 0    | 14   |

The report on Housing and Milk Supply previously included in this Section are now incorporated in Section VII. Refere Disputal. Deposition Wester

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# SECTION III.

OCCURRENCE AND CONTROL OF INFECTIOUS
DISEASES

# SECTION 141.

OCCURRENCE AND CONTROL OF IMPECTIOUS

# OCCURRENCE AND CONTROL OF INFECTIOUS DISEASES

# INCIDENCE

There was an increase of 916 in the number of confirmed notifications of infectious diseases as compared with the figure for the previous year. This increase was principally due to the large number of measles notifications received. Details of these are given in Table 8.

TABLE 8

| Serves sends lo surque access   | Number of cases notified at various ages. |  |                              |                         |                       |                           |                       |             | cases        |                 |   |
|---|---|--|------------------------------|-------------------------|-----------------------|---------------------------|-----------------------|-------------|--------------|-----------------|---|
|   | Total number of on notified.              | Number of cases in-<br>correctly notified. | Net Number of on notified.   | Under 1 year.           | 1-5 years.            | 5-15 years.               | 15-25 years.          | 25.45 years | 45-65 years. | 65 and upwards. | Number of notified cases removed to hospital. |
| Scarlet Fever Whooping Cough Diptheria Measles Pneumonia Acute Poliomyelitis— | 93<br>140<br>—<br>1245<br>20              |  | 93<br>140<br>—<br>1245<br>20 | 1<br>13<br>-<br>51<br>2 | 25<br>103<br>—<br>743 | 63<br>23<br>—<br>445<br>1 | 2<br>1<br>-<br>5<br>2 | 2 - 1 4     |              | 4               | 22<br>3<br>-<br>7<br>1                        |
| Paralytic Non-Paralytic Dysentery Ophthalmia Neonatorum                       | -<br>1<br>18                              |  | -<br>1<br>18<br>10           | _<br>_<br>_<br>10       | <u>-</u>              | 1<br>5                    | <u>-</u>              | <u>-</u> 5  | _<br>_<br>2  | <u>-</u>        | -<br>1<br>1                                   |
| Puerperal Pyrexia<br>Smallpox<br>Paratyphoid Fever                            | 11<br>51<br>—                             | 1 - 1                                      | 51 - 1                       | -<br>-<br>-             | -<br>-<br>1           |                           | 28<br>—               | 23<br>      |              | 111             | 8 - 1   |
| Typhoid Fever Erysipelas Malaria Pulmonary Tuberculosis                       | 17<br>1<br>92                             | 1  | 17<br>1<br>92                |                         |                       | _<br>_<br>_<br>6          | 1<br>1<br>29          | -<br>32     | 15           | 1 - 2           | -<br>1<br>-                                   |
| Other forms of Tuber-<br>culosis<br>Food Poisoning<br>Meningococcal Infection | 22<br>2<br>1                              | 111  | 22<br>2<br>1                 | <u>-</u>                | 5                     | 4 1                       | 5 _                   | 5 1         | 2            | 1               | -<br>1<br>1                                   |
|   | 1718                                      | 2  | 1714                         | 78                      | 885                   | 549                       | 75                    | 73          | 45           | 9               | 47  |

A total of 1,714 confirmed notifications of infectious disease were received during the year, 114 of which related to various forms of Tuberculosis and 1,600 to other infections.

2 deaths were certified as due to zymotic diseases, equal to a zymotic death rate of 0.03 per 1,000 of the population.

# SCARLET FEVER

As mentioned in last year's report, scarlet fever is not now generally a severe disease. Of the 93 cases notified, 71 were nursed at home.

#### DIPHTHERIA

I am pleased to be able to report another year in which there has been a complete absence of diphtheria from the City. Although the overall position regarding the immunising of children aged 1 to 15 years remains little altered, there has been a slight fall in the number of children under school age who have been immunised. It has been suggested that the parents of these young children have had no experience of this disease and, therefore, do not see the need for their children being immunised. There is no doubt that diphtheria could still break out in a severe form in this country and every effort should be made to secure the immunisation of all children by their first birthday.

#### **SMALLPOX**

No case of Smallpox was notified during the year, but notices were received from a Port Health Authority and a Local Health Authority regarding contacts of this disease. No vaccinations were undertaken during the year under the Public Health (Smallpox Prevention) Regulations, 1917.

#### MALARIA

One notification of this disease, which was contracted abroad, was received.

## PNEUMONIA-ACUTE PRIMARY & INFLUENZAL

Of the 20 notifications of Pneumonia where the diagnosis was confirmed, 11 were of the acute influenzal type and 9 of the acute primary variety. There was one death among the cases of Acute Primary Pneumonia.

#### INFLUENZA

Fifteen deaths were registered as due to Influenza.

# FOOD POISONING

There was no epidemic of food poisoning in the City. Two individual cases were notified, but investigation did not reveal any definite source of infection.

# CEREBRO-SPINAL FEVER

No notification of Cerebro-Spinal Fever was received.

# ACUTE POLIOMYELITIS

There was no epidemic prevalence of this disease during the year. One case of the non-paralytic type was notified and removed to hospital.

# PUERPERAL PYREXIA

The new regulations governing the notification of puerperal pyrexia came into force on 1st August, 1951. Under these regulations notification must be made of any woman who, during the puerperium has a temperature of 100.4° or more. In the former regulations she had to have a temperature of 100.4° maintained for 24 hours or repeated twice within 24 hours.

It was to be expected that with these more stringent regulations the number of notifications would increase and, in fact, there were 51 notifications received during the year, 8 of the patients being removed to the Infectious Diseases Hospital. Only 24 of the notifications were in respect of City residents. On investigation it was found that most of the patients suffered from minor conditions which did not require specific Public Health action.

# OPHTHALMIA NEONATORUM

10 cases of Ophthalmia Neonatorum were notified by medical practitioners and in each instance both eyes were affected, but in no case did permanent damage result. Seven of these cases were treated at home by the District Nurses under the supervision of the doctor in charge of the case.

The following table shows the results of treatment of cases of Ophthalmia Neonatorum.

TABLE 9

|                | CASES.     |              |           | 3 ,/      |                 | Deaths          | Number                              | Number    |
|----------------|------------|--------------|-----------|-----------|-----------------|-----------------|-------------------------------------|-----------|
|                | Trea       | ted.         | Vision    | Vision    | Total           | during          | still under                         | removed   |
| Noti-<br>fied. | At<br>Home | In Hospital. | impaired. | impaired. | Blind-<br>ness. | treat-<br>ment. | treatment<br>at end of<br>the year. | District. |
| 10             | 7.         | 3            | 10        | _         | -               | -               | _                                   | _         |

# TYPHOID & PARA TYPHOID FEVER

No notification of typhoid fever was received, but one case of para typhoid fever was notified.

# SCABIES

The Cleansing Centre at the School Clinic premises continued to be used for the treatment of Scabies and 36 cases were dealt with during the year. Of these, 1 was an adult, 31 were school children, and 4 pre-school children.

# NOTIFICATION FEES

The total amount paid in fees to medical practitioners for the notification of all notifiable diseases during 1951 was £102 6s. 9d.

# VENEREAL DISEASES

Arrangements for the treatment of Venereal Diseases were under the control of Dr. Herbert J. Bell. The follow-up work and contact tracing was carried out by the Head Almoner of the Cumberland Infirmary, and in cases of difficulty the senior Health Visitor was informed and she visited the patient.

The number of City residents known to have been treated during the year for Venereal Diseases was 148. The conditions treated were as follows:—

| Syphilis     | ***   | <br>*** | *** | 24  |
|--------------|-------|---------|-----|-----|
| Gonorrhoea   |       | <br>    |     | 17  |
| Other Condit | tions | <br>    |     | 107 |

No action was taken under the Venereal Diseases Act, 1917.

SECTION IV.

**TUBERCULOSIS** 

# TUBERCULOSIS

The new Chest Centre at the City General Hospital, Carlisle, was opened in January, 1951, and provides a complete service embracing all aspects of chest and tuberculosis work for the area covered by the East Cumberland Hospital Management Committee.

The Mass Radiography Unit allocated to the Special Area and an intregal part of the modern Chest Service has been fully employed since operations commenced in April, 1951.

# NOTIFICATION

Whilst the notification rates generally throughout Great Britain show a welcome decline, I am afraid the notification rate in Carlisle, for 1951, is higher. This is not unexpected, largely as a result of improved methods of case finding, such as full Chest Centre facilities and Mass Radiography surveys. One anticipates that the number of notifications will remain about the present figure for the next year or two.

Table 10 shows the number of notifications throughout Great Britain for the years 1946 to 1950.

|      | TAB  | LE 10 |            |
|------|------|-------|------------|
| 1946 | <br> |       | <br>61,000 |
| 1947 | <br> |       | <br>61,800 |
| 1948 | <br> |       | <br>62,600 |
| 1949 | <br> |       | <br>63,300 |
| 1950 | <br> | ***   | <br>59,000 |

Table 11 shows the number of formal notifications in Carlisle City for 1951, and the preceding 5 years.

# TABLE 11

|      |     | Pulmonary. | No | n-pulmonar |
|------|-----|------------|----|------------|
| 1946 |     | <br>90     |    | 14         |
| 1947 |     | <br>82     |    | 22         |
| 1948 |     | <br>69     |    | 22         |
| 1949 |     | <br>65     |    | 11         |
| 1950 |     | <br>83     |    | 7          |
| 1951 | *** | <br>92     |    | 22         |

ry.

As stated last year, once again every effort has been made to secure that the Notification Regulations are strictly followed, and in this respect one is happy to know that our co-operation with the Medical Practitioners in this area is of a very high standard.

Statistics for different areas should obviously be comparable. Last year I called attention to the value of notification of cases of pleural effusion unless due to trauma or some condition other than tubercle, and at the same time deprecated any tendency to notification of a primary complex in a child or young adult, unless this was severe enough to cause gross symptoms and signs. The tendency of general practitioners to refer chest cases to us for an opinion and to leave notification until the diagnosis has been confirmed in consultation is therefore, in my opinion, a welcome step in the right direction.

Table 12 shows the number of primary notifications of tuberculosis by age, sex and type received during the year.

TABLE 12

| Age                 | Nı  | ımbe | r of | Prima | ry N  | otifica | tions | of nev | v case | s of T | ubercu               | losis.           |
|---------------------|-----|------|------|-------|-------|---------|-------|--------|--------|--------|----------------------|------------------|
| Periods.            | 0-1 | 1-5  | 5-10 | 10-15 | 15-20 | 20 25   | 25-35 | 35-45  | 45-55  | 55-65  | 65<br>& up-<br>wards | Total (all ages) |
| Pulmonary—<br>Males | _   | 2    | 2    | 1     | 1     | 3       | 9     | 8      | 9      | 5      | 2                    | 42               |
| Females             | -   | 2    | -    | 3     | 6     | 19      | 11    | 4      | 2      | 3      | -                    | 50               |
| Non-<br>Pulmonary-  |     |      |      |       |       |         |       |        | - 53   |        |                      |                  |
| Males               | -   | 3    | -    | 1     | 1     | -       | -     | 1      | 1      | UT-    | -                    | 7                |
| Females             | _   | 2    | 2    | 1     | 3     | 1       | 3     | 1      | 1      |        | 1                    | 15               |
| Totals.             | -   | 9    | 4    | 6     | 11    | 23      | 23    | 14     | 13     | 8      | 3                    | 114              |

Other cases of tuberculosis were brought to the knowledge of the Medical Officer of Health otherwise than by formal notification, and the distribution of these by age, sex, type and source of information, is given in Table 13.

TABLE 13

|                            |                |     |     | ION  | MBER  | NUMBER OF CASES |       | IN AG | AGE GROUPS. | DIPS. |       |                 |       |
|----------------------------|----------------|-----|-----|------|-------|-----------------|-------|-------|-------------|-------|-------|-----------------|-------|
| Source of<br>Information.  |                | 0-1 | 1-5 | 5-10 | 10-15 | 15-20           | 20-25 | 25-35 | 35-45       | 45.55 | 55-65 | de up-<br>wards | Total |
| Posthumous                 | M.             |     | 1   | 1    | 1     | 1               | 1     |       | !           |       | 1     | 1               |       |
| Notifications              | Respiratory F. | 1   | 1   | 1    | ī     | 1               | 1     |       |             | 1     | 1     | 1               | 1     |
| 610 151                    | Non. M.        | 1   | 1   | 1    | 1     | 1               | 1     | 1     | 1           |       | T     | 1.              | 1     |
|                            | Respiratory F. | 1   | 1   | 1    | 1     | 1               | 1     | 1     | 1           | 1     | 1     | 1               | 1     |
|                            | M.             | 1   | 1   | 1    | 1     | 1               | 1     | 1     | 1           | 1     | 1     | 1               | 1     |
| Death Returns              | Respiratory F. | 1   | 1   |      | 1     | 1               | 1     | 1     | 1           | 1     | 1     | 1               | 1     |
| from Local<br>Registrars   | Non M.         | 1   | T   | 1    | 1     | 1               | L     | 1     | 1           | 1     | 1     | 1               | 1     |
|                            | Respiratory F. | 1   | 1   | 1    | 1     | 1               | 1     | 1     | 1           |       | 1     |                 | 1     |
| 0.00                       | M.             |     | T   | 1    | 1     | 1               | 60    | 2     | 93          | -     | 1     | 15              | 00    |
| Transfers from other areas | Respiratory F. | 1   | 1   |      |       | -               | 1     | 2     | 1           |       | 1     |                 | 60    |
| (excluding<br>transferable | Non. M.        | 1   |     | 1    | 1     | 1               | 1     | 1     | 1           | 1     | 1.    | 1               |       |
| deaths)                    | Res            | 1   |     | 1    | 4     | 1               | 1     | 1     |             | -     | 1     |                 | 1     |
| TOTALS                     | ALS            | 1   | 1   | 1    | 1     | 1               | 7     | +     | 00          | 1     | 1     | 100             | 13    |

The removal of a patient's name from the Notification Registers has become more of a problem. The normal practice is that a patient whose disease has been arrested for five years has his name removed from the Register at the end of this period. This is straightforward; the difficulties, however, are in those patients who remove to other areas without giving their new address, and are lost sight of completely. In cases where a patient has been notified and where the diagnosis has not been confirmed, there has been no difficulty, usually in consultation with the practitioner notifying the case, in removing the name from the Notification Register.

#### DEATHS

The number of deaths again show a decline, not only in Carlisle, but throughout the country. The appropriate figures are given in tables 14 and 15.

# TABLE 14

Deaths from pulmonary tuberculosis throughout Great Britain:

|      |      | -    |        |
|------|------|------|--------|
| 1946 | <br> | <br> | 26,830 |
| 1947 | <br> | <br> | 27,640 |
| 1948 | <br> | <br> | 25,880 |
| 1949 | <br> | <br> | 23,320 |
| 1950 | <br> | <br> | 18,750 |

# TABLE 15

Deaths from pulmonary and non-pulmonary tuberculosis in the City of Carlisle:

| Pulmonary. Non-pulm | nonary. |
|---------------------|---------|
| 1946 45 4           |         |
| 1947 38             |         |
| 1948 30             |         |
| 1949 46             |         |
| 1950 24             |         |
| 1951 23 3           |         |

Table 16 shows the total tuberculosis and pulmonary tuberculosis death rate per 1,000 of the population for the last 10 years:

#### TABLE 16

| Year.                  |      |      | -    | -    | -    |      | -    | 1    |      |      |
|------------------------|------|------|------|------|------|------|------|------|------|------|
| rear.                  | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | 1950 |
| Total T.B. Deaths Rate | 0.7  | 0.6  | 0.8  | 0.68 | 0.77 | 0.74 | 0 18 | 0.74 | 0.14 | 0.38 |

Whilst one would like to think that modern chemotherapy has been largely responsible for this fall in the death rate, it is obvious that the fall started before the general use throughout the country of streptomycin and the other new drugs.

Complacency about the declining mortality would be quite wrong, however. The tuberculosis problem must be measured in terms of sick people. Whilst the number of notifications and deaths for one year is a definite figure, any figures for the number of people actually suffering from tuberculosis are much more involved.

## TUBERCULOSIS STATISTICS

Table 17 which follows, does give the actual number of cases, both pulmonary and non-pulmonary, on the Clinic Register for the City of Carlisle for 1951. It does, despite its limitations, give an indication of the size of the problem. There must still, however, be many undiscovered cases in the area, and not always minimal cases with a good prognosis. Some of the recent new cases discovered in our Mass Radiography surveys have had advanced disease with cavitation.

There is no doubt that many more patients are now treatable, and that the prognosis in notified cases has been remarkably improved—greater than could be expected by the reduction in the proportion of severe cases, thanks to improved case finding.

I would again comment on the large number of known cases within the City who have had a positive sputum during the past six months. Unfortunately many of these are in the older age groups and are cases of chronic fibrotic disease with cavitation, and cases notoriously difficult to treat. Collapse therapy and major surgery are impracticable, and it is almost impossible for streptomycin to penetrate through the layers of fibrosis to the tubercle bacillus and reach the latter in a degree sufficient to have any effect.

Table 18 shows the number of examinations of patients carried out at the Chest Centre in Carlisle.

TABLE 17

Cases on Dispensary Register (Details of year's work)

|  | Resp | oirator | y.  | Re | Non. |         |     | Fotals  |      | Grand<br>Total. |
|--|------|---------|-----|----|------|---------|-----|---------|------|-----------------|
|  | M.   | F.      | Ch. | М. | F.   | Ch.     | M.  | F.      | Ch.  |                 |
| Cases on Register<br>on 1st January,<br>1951   | 163  | 179     | 26  | 17 | 30   | 48      | 180 | 209     | 74   | 463             |
| Register during  | 36   | 46      | 14  | 3  | 6    | 8       | 39  | 52      | 22   | 113             |
|  | 199  | 225     | 40  | 20 | 36   | 56      | 219 | 261     | 96   | 576             |
| Written off<br>during 1951   | 45   | 45      | 10  | 9  | 17   | 15      | 54  | 62      | 25   | 141             |
| Number on<br>Register at the<br>end of the year                                      | 154  | 180     | 30  | 11 | 19   | 41      | 165 | 199     | 71   | 435             |
| Number of above<br>known to have<br>had positive<br>sputum within<br>the preceding 6 |      |         | 1   |    |      | and the |     | or deal | 1100 |                 |
| months   | 36   | 51      | 2   | -  | -    | _       | 36  | 51      | 2    | 89              |

TABLE 18

Examinations at the Chest Centre, Carlisle

|   | From              | Total from Carlisle,<br>Cumberland and |
|---|-------------------|--|
| (a) N1 6 1 C  | City of Carlisle. | Westmorland.                           |
| (a) Number of cases who first<br>attended during the year |                   | <br>3646                               |
| (b) No. of contacts who first                             |                   |  |
| attended during the year                                  | 1060              | <br>1652                               |
| (c) Total attendances                                     | 4917              | <br>8691                               |
| (d) No. of A.P.; P.P.; and                                |                   |  |
| E.P. Refills  | 1380              | <br>2595                               |

# CONTACT EXAMINATIONS

The examination and supervision of contacts remains as one of the chief duties of the Chest Service. Table 19 gives the details of contact examinations for the City of Carlisle.

### TABLE 19

| (a) Total number of contacts<br>first examined during               | Male.  | Female. | Children. | Total. |
|---|--------|---------|-----------|--------|
| 1951  | 234    | . 474 . | 352       | 1060   |
| (b) Total number diagnosed as tuberculous                           | 2      | . 3 .   | 3         | 8      |
| B.C.G. Vaccination—  (c) Total number vaccinated to the end of 1951 | Males. | 1       | Females.  | Total. |

The essentials of contact examinations are X-ray examination of the chest and Mantoux Testing of those up to the age of 15 years. I would point out that the number of contacts developing evidence of active tuberculous disease is comparatively small below the age of 10—the age of puberty—thereafter during adolescence the risk of tuberculosis increases.

It has been our practice to examine young contacts below the age of 10 at four to six-monthly intervals. In view of the small number of cases arising in this early age group it would seem, at first sight, that we waste time examining these contacts so often. I feel, however, that this periodic examination over this early period of life makes the parents and contacts more Chest Centre conscious and tends to ensure that attendances will continue regularly over the age of puberty into adolescence.

Mantoux Testing is carried out, as a routine, on all persons under the age of 15 years who attend at the Chest Centre here. A vast majority of the initial and periodic X-rays are carried out by the Mass Radiography Unit from the age of 5 years upwards, thus easing the burden on the Chest Centre.

### VACCINATION WITH B.C.G.

Vaccination of Mantoux negative contacts steadily continues; the vast majority of those inoculated are in the under 6 age group. Unlike a survey of the extent of tuberculin sensitivity carried out in normal age groups under 15, this survey limited to contacts of definite cases of tuberculosis, shows a much higher percentage of initial positive reactors.

It should be emphasised once more that the administrative effort required in B.C.G. vaccination is exceedingly great. It necessitates not only double preliminary intra-dermal tests, but

follow-up tests and periodic examinations over a period of years, because unfortunately, no-one knows yet the exact duration of the immunity acquired.

B.C.G. vaccination is much easier carried out on the nursing staffs in hospitals than it is in contacts who come some times long distances for their tests.

It will obviously be a long time yet before B.C.G. vaccination is made available to the general public. Not only is there a shortage of personnel, but supplies of the vaccine are limited. When these two latter conditions improve, I feel that the next group of people to be offered B.C.G. vaccination should probably be National Service recruits; this would be a procedure reasonably economic in both personnel and time, and analogous to the vaccination of nursing staffs in hospitals.

I know that various physicians have advocated a much simpler routine, e.g., by cutting out the six-weekly interval between the tests, and requiring the minimum of two attendances at the Chest Centre. The Ministry, however, have not altered their Regulations, and I do not advocate any alterations, as I feel that all steps should be taken to ensure that B.C.G. vaccination does not fall into disrepute.

One must emphasise again that in tuberculosis the relationship of immunity to hypersensitivity is unknown and that the extent of immunity cannot be accurately determined by the Mantoux Test. There are also many facts regarding B.C.G. vaccination still unknown to us. One of the most useful observations recently has been that the vaccine can be kept at ordinary room temperature for some weeks, and when used will still result in satisfactory hypersensitivity. Originally, it was recommended that the vaccine be kept cold and used very soon after preparation.

### INSTITUTIONAL TREATMENT

As before, treatment of patients is still handicapped by shortage of beds, and we are nowhere near the ideal of 350 beds for the whole of the Special Area. At the end of 1951 the beds available showed a small, but welcome increase, as shown in Table 20.

### TABLE 20

Beds available to Special Area and those occupied by Carlisle patients on 31st December, 1951:—

|                        |     | Total beds. | Carlisle | patients. |
|------------------------|-----|-------------|----------|-----------|
| Blencathra Sanatorium  |     | 100         |          | 19        |
| Meathop Sanatorium     | *** | 20          |          | 4         |
| Stannington Sanatorium |     | 5           |          | 1         |
| Ormside Sanatorium     |     | 20          |          | 8         |
| Longtown Sanatorium    |     | *14         |          | 5         |
| Ellerbeck I.D.H        |     | 7           |          | _         |
| City General Hospital  |     | 14          |          | 7         |
| Cumberland Infirmary   |     | 10          |          | 7         |
|                        |     |             | -        | _         |
|                        | Tot | al 190      |          | 51        |
|                        |     |             | _        |           |

<sup>\*</sup> This number now increased to 23.

The number of beds at both Longtown Sanatorium and Ormside Sanatorium are now the maximum possible, and no further increase can be expected at either of these two sanatoria. Full use was made of the available beds and Table 21 shows the number of City patients admitted to the various hospitals, while Table 22 summarises the work for 1951 in the beds available and relates to all patients admitted from the Special Area as a whole,

### TABLE 21

Total number of Carlisle City Patients admitted to institutions for treatment during 1951.

|                |          |    | Adults. | Children. |
|----------------|----------|----|---------|-----------|
| Blencathra     |          |    | 36      | <br>_     |
| Meathop        |          |    | 5       |           |
| Stannington    |          |    | _       | <br>1     |
| Longtown       |          |    | 7       | <br>_     |
| Cumberland Inf | irmary   |    | 12      | <br>_     |
| City General H | Iospital |    | 17      | <br>2     |
| Ellerbeck I.D. | Hospit   | al | 1       | <br>_     |
| Ormside Sanato | rium     |    | 10      | <br>1-10- |

SUMMARY OF HOSPITAL RETURNS FOR THE YEAR 1951

| Ellerbeck.                   | 7                             | *3                        | 111  | 1111  | 13   |
|------------------------------|-------------------------------|---------------------------|--|---|--|
| Longtown.                    | 14                            | 14                        | 0100   | 11-1  | 3<br>10  |
| c.r.c.                       | 10                            | 10                        | 14   | 1111  | 13   |
| City<br>General<br>Hospital. | 14                            | 14                        | 9  | 11<br>9<br>17<br>19   | 24 32  |
| Ormside.                     | 20                            | 20                        | 96   | 1111  | 18   |
| Blencathra.                  | 100                           | 93                        | 16   | 28  | 88.8   |
|                              | Beds available as at 31/12/51 | Beds occupied on 31/12/51 | No. of patients on—  (a) Streptomcycin (b) P.A.S. (c) Both (a) and (b) | Number of patients given— Artificial Pneumothorax inductions Pneumo Peritoneum inductions Phreniclasis Adhesion Section | Number of patients discharged during the year 1951— R.A. cases (Negative sputum) R.B. cases (Positive sputum at some time) |

\* NOTE-Admissions to Ellerbeck had to be curtailed at the end of 1951 to allow of necessary repairs to the building.

Chemotherapy with paramisan and streptomycin continues to play a most important role in hospitals—but I must emphasise that this is only one form of treatment, and is often complementary. A well-established artificial pneumothorax results in a higher conversion rate from sputum positive to sputum negative than any other single procedure, and there is no doubt that artificial pneumothorax together with other forms of collapse therapy, both minor and major, should be carried out on all suitable cases despite the use of chemotherapy.

There has been during the past year an increasing number of phrenic crush operations done and pneumoperitoneums induced. Whilst the conversion rates in this procedure are much lower than in artificial pneumothorax followed by adhesion section, there is no doubt but that they are useful not only in resulting in conversion in a small proportion of cases, but in controlling the disease in the remainder and making patients fit later for major surgery such as thoracoplasty.

Unfortunately, the waiting lists for major surgery are large, and are in fact now almost a bigger problem than the ordinary waiting lists for admission to sanatoria. At the end of 1951 our waiting list for major surgery, for the whole of the Special Area, was 52 cases, while our sanatorium waiting list was not much larger. Patients waiting for admission to a sanatorium can be treated well at home during this preliminary waiting time, but the patient who has already had sanatorium treatment, and is deemed suitable for major surgery, should obviously not have to wait approximately two years, as they do at present.

During this two years wait many people frankly deteriorate to such an extent that major surgery is no longer a possibility. Again, even if the patient is still suitable at the end of this period for surgery, it is essential that he should first be admitted to a sanatorium bed for final assessment for six to eight weeks before going to the Thoracic Surgery Centre. This makes a demand on our sanatorium beds, which would not obtain if we had no thoracic surgery waiting list.

So far as minor collapse therapy goes, the services of a surgeon are required for adhesion section approximately four weeks after the induction of an artificial pneumothorax, and also for a phrenic crush operation, with or without, the induction of a pneumoperitoneum later. The increased number of these inductions has led to a marked increase in the phrenic crush and adhesion section operations required, and I feel that the question of providing a definite Thoracic Surgery Unit in the Special Area will have to be tackled sooner or later.

Apart from streptomycin and paramisan, which are extensively used, both at home and in hospital, we have just commenced to use a new drug which has recently received considerable publicity, viz., Isonicotinic Acid Hydrazide. It is impossible to assess the results yet. It is stated that the drug results in the disappearance of pyrexia, the lowering of the erythrocyte sedimentation rate and the general increased well-being of the patient. From preliminary reports the most striking result would appear to be the comparatively large number of cases converted from positive to negative and yet still showing radiologically large ring shadows (cavities).

In tuberculosis, assessment of a new drug in treatment is notoriously difficult and one is naturally very cautious. If, however, further results substantiate the claim for this drug that it results in sputum conversion in many cases in spite of the persistence of apparent cavities, then it will undoubtedly be very valuable. Such a drug would result in a welcome reduction of the volume of infectivity in the general community.

The increasing number of cases on whom minor forms of collapse therapy are carried out, and who are discharged home before their period of bed rest and graduated exercise has been entirely completed, entails an increasing demand on the Ambulance Service of the City of Carlisle. On one day alone per week we have no less than 8 patients coming into the Chest Centre here by ambulance or sitting case car. If these latter services were not available to us, all these patients would require to be in-patients for at least another eight weeks or longer.

#### BRONCHIECTASIS

In bronchiectasis, as in any other non-tuberculous condition, we work in close association with the Thoracic Surgeon.

Complete investigation is possible at Carlisle; treatment consists, chiefly, in postural coughing and exercises.

In contra-distinction to tuberculosis, the waiting list for bronchiectasis cases waiting either investigation or operative treatment is negligible. As I pointed out previously, there is no harm in waiting in these cases, as the time can be profitably spent in further physiotherapy. We are fortunate in having the services of a Physiotherapist seconded from the Rehabilitation Department of the Cumberland Infirmary to the Chest Centre for part-time duty.

### PULMONARY NEOPLASM

The number of cases of pulmonary neoplasm found in Carlisle City has again been small. Investigation is automatic in any discovered, and there has again been no delay in treatment.

### MASS RADIOGRAPHY

### Groups Examined

During 1951 the Unit operated continuously throughout the Special Area, and in addition to carrying out surveys at works and factories, surveys of the general public were carried out on 3 occasions in the City.

It was decided early on that during the first year, at any rate, work should, as far as possible, be concentrated in the three largest centres of population in the Special Area, namely—Carlisle, Whitehaven and Workington. This decision was further influenced by the extreme shortage of films necessitating the passage of practically all contact work at the Chest Centres through the Mass Radiography Unit. In all 1,502 contact cases from the whole of the Special Area were X-rayed by the Unit.

During the year we also received instructions to arrange for the X-ray examination of National Service recruits. In the Special Area the only centre for this work is at Carlisle, and we have arranged to pass through all National Service recruits at Carlisle on four occasions in the year. 303 men were examined during 1951.

Facilities for chest X-ray examination were made available in our public surveys to school children of 14 years and over. Close contact was maintained with the City Medical Officer and full advantage was taken of the service as 3,212 children of these age groups, again from the whole of the Special Area, passed through the Unit. It is to be noted that examination of school children is only carried out after receiving the consent of the parents.

Full co-operation of the General Practitioners in the City was invited during each survey, and many persons were referred directly in 1951 by the doctors themselves. The public surveys necessitated no prior appointment and were well attended, no less than 15,486 persons from the Special Area having passed through the Unit.

#### Results

During the period 32,387 persons were examined by the Unit. These include 849 inmates of Dovenby Hall and Garlands Hospitals. Excluding the mental patients, 31,538 civilians were examined, of which 16,022 were males and 15,516 females. These are set out in the Ministry of Health age groups in Table 23.

### TABLE 23

| Age.    |     | 14 &<br>Under | 15-24.   | 25-34.   | 35-44.   |     | 45-59. | 60 & over. | Total<br>all<br>ages. |
|---------|-----|---------------|----------|----------|----------|-----|--------|------------|-----------------------|
| Male    |     | 1305          | <br>3441 | <br>3554 | <br>3158 |     | 3652   | <br>912    | <br>16022             |
| Females | *** |               |          | 3129     |          | *** | 2673   | <br>470    | <br>15516             |
| Totals  |     | 2644          | <br>8803 | <br>6683 | <br>5701 |     | 6325   | <br>1382   | <br>31538             |

Number re-called for full sized X-ray films— 1,512 (4.67% of the total examined).

Number referred for clinical examination—
423 (1.30% of the total examined).

Number failing to attend for full-sized X-ray film— 69 (4.56% of those recalled).

#### Comments

In commenting on the results of the Mass Radiography Unit for 1951 one would say, most emphatically, that the operation of the Unit in the Special Area has been more than justified. Whilst emphasis has been laid on the number of abnormalities found, and especially on the number of new cases of active pulmonary tuberculosis with its consequent benefit, both to the individual concerned and to the public at large, yet it must not be forgotten that the assurance that a person has a normal X-ray is—within limits—of great benefit to that particular individual. One must emphasise that even in spite of a normal X-ray report, should chest symptoms develop later, the person concerned should seek a further examination, preferably through his own doctor.

The Special Area has a population of approximately 300,000 and whilst the Utopia would be for every person to be examined every six months, this is quite beyond the limits of practical politics at present. One Unit in a widely scattered area such as ours can hope to carry out approximately 40,000-45,000 examinations per year, and it is unlikely that more Units can be allotted throughout the country in present circumstances. Obviously our Unit must be used, therefore, to its best advantage. We must continue to examine the school leavers and we welcome the opportunity of examining National Service recruits. It is a pity that the examination at the age of 18 for National Service recruits does not extend to the whole of this age group, and that it does not include females.

Again, most cases of active pulmonary tuberculosis come to us normally via the general practitioners. I feel that the Mass Radiography Unit could be of greater value if the general practitioners referred more of their patients to the Unit whilst it was in their areas. Only 262 cases were referred in this way during 1951.

The detailed results of the X-ray examinations are shown in Table 24.

TABLE 24

|                                  | Males.         | Females. | Total.    | Percentage<br>of total<br>examined. |
|----------------------------------|----------------|----------|-----------|-------------------------------------|
| ABNORMALITIES                    |                |          |           |                                     |
| REVEALED.                        |                |          |           |                                     |
| (i) Non-tuberculosis conditions: |                |          |           |                                     |
| (1) Abnormalities of ribs,       |                |          |           |                                     |
| etc ,                            | 201            | 194      | 395       | 1.22                                |
| (2) Bronchitis and               |                |          |           |                                     |
| Emphysema                        | 15             | -        | 15        | .05                                 |
| (3) Bronchiectasis               | 68             | 34       | 102       | .31                                 |
| (4) Pneumoconiosis               | 126            | -        | 126       | .39                                 |
| (5) Pleural thickening           | 140            | 62       | 202       | .62                                 |
| (6) Intrathoracic Neoplasms      | 9              | 3        | 12        | .04                                 |
| (7) Cardiovascular lesions       |                |          |           |                                     |
| (a) congenital                   | 3              | 7        | 10        | .03                                 |
| (b) acquired                     | 90             | 159      | 249       | .77                                 |
| (8) Miscellaneous                | 96             | 56       | 152       | .47                                 |
| (ii) Suspected pulmonary tuber-  |                |          |           |                                     |
| culosis—                         |                |          |           |                                     |
| Previously known—                |                | 44       | Laborat . |                                     |
| 1. Active                        | 6              | 11       | 17        | .05                                 |
| 2. Inactive                      | 6              | 8        | 14        | .04                                 |
| Newly discovered—                | All the second |          | -93       |                                     |
| 1. Active                        | 67             | 47       | 114       | .35                                 |
| 2. Inactive primary              | 194            | 209      | 403       | 1.24                                |
| 3. Inactive post-primary         | 419            | 296      | 715       | 2.21                                |

The examination of contacts has also proved of great value and has eased the burden at the Chest Centre and the West Cumberland Hospital X-ray Departments. As these are members of the community most liable to develop disease in adolescence, this method of case finding must obviously continue to be employed in this group. The public surveys held at the Mass Radiography base at the Warwick Hotel throughout 1951 were well-attended. The percentage of employees volunteering to pass through the Unit during the factory surveys in Carlisle was the highest in the Special Area.

### FURTHER DEVELOPMENTS

I have already briefly mentioned the need for Thoracic Surgery beds in this area, both for minor and major work. My own opinion is that taking chest conditions all over the Special Area there is sufficient work for a full-time Thoracic Surgeon for this area.

The need for more beds for tuberculosis in the Special Area is again stressed. Even the provision of "hostel" beds for the chronic ambulant infectious case would help to ease our problem in the Special Area. At present we have a considerable proportion of our sanatorium beds occupied by such cases, and I am continuously being pressed to admit others. Whilst I fully appreciate the need for isolation in the chronic infectious case, I feel that we cannot further increase the numbers of those persons in sanatorium without grossly impairing our ability to admit treatable cases.

### **ACKNOWLEDGMENTS**

It is a pleasure to acknowledge the valuable help received in the Chest Service work from the staff of the Public Health Department and I would especially thank the Health Visitors who have undertaken the home visiting (in many cases more than one visit) in connection with the environmental survey which we started during the year.

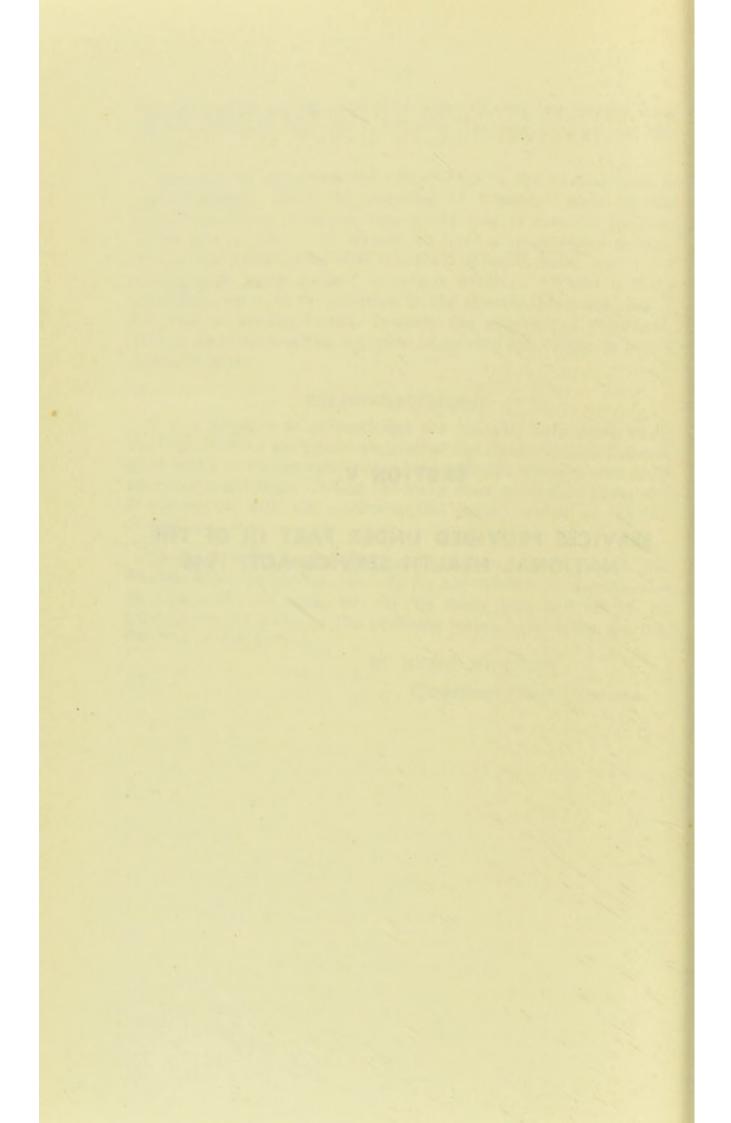
Finally, I would express my sincere thanks to Dr. Rennie, the Medical Officer of Health, not only for his valuable co-operation in all aspects of this work, but for his ready help and advice, so freely given, in many of the problems which have arisen during the year under review.

W. HUGH MORTON,

Consultant Chest Physician.

# SECTION V.

SERVICES PROVIDED UNDER PART III OF THE NATIONAL HEALTH SERVICE ACT, 1946



# SERVICES PROVIDED UNDER PART II OF THE NATIONAL HEALTH SERVICE ACT, 1946

### HEALTH CENTRES

No action was taken regarding the provision of Health Centres.

### CARE OF MOTHERS AND YOUNG CHILDREN

The lack of an Assistant Dental Surgeon has restricted the development of priority dental services. In the absence of a complete priority dental service the Council wisely decided that the Dental Officer should devote his attention to the conservative dentistry of children. It is hoped that eventually when the staffing position is less acute, a full priority service will be provided. The health visiting service has been maintained although the expansion visualised in the proposals made in accordance with the Act has not materialised on account of the difficulty of recruiting Health Visitors.

There were 1,830 births notified during the year, which is an increase of 93 over the figure for 1950. Of this number 1,753 were live births and 77 still-births. One notification was received from a medical practitioner, and the remainder were notified by midwives.

### Ante-Natal Clinics

Ante-natal clinics were held at Eildon Lodge for those expectant mothers who had arranged to have their confinement at home, while patients who had arranged for a hospital confinement received their ante-natal supervision at the City Maternity Hospital.

The number of patients who attended the ante-natal clinic was 282; of this number 236 attended for the first time. The total number of attendances by expectant mothers was 823.

Facilities are provided and arrangements have been made for every expectant mother to have her blood grouped and the presence or absence of the Rh factor determined. When all tests are completed the mother is given a card showing her blood group, etc., and this information is thus available at her confinement or in the event of an emergency. If Rh anibodies develop the patient is immediately referred to the City Maternity Hospital.

#### Post-Natal Clinics

A combined ante-natal and post-natal clinic was held each week, and during the year 8 mothers attended for post-natal examination. No advice was given at this Clinic on contraceptive measures.

The Voluntary Clinic, which is run under the auspices of the Family Planning Association, continued its work in the City. During the year the Association was afforded accommodation in Eildon Lodge and held a Clinic each fortnight.

### Provision of Maternity Outfits

During the year 195 maternity outfits were issued, free of charge, to expectant mothers whose confinements took place at home. In each case the application for the outfit was accompanied by a certificate from a doctor or midwife.

Additional dressings when necessary were provided by the Council.

### Care of Premature Babies

All infants whose birth weight is 5½ lbs. or less are included under this heading, and the number of notifications of these infants received during the year was 69. This figure includes 9 babies born at home, and 60 born in hospitals or nursing homes. The children born at home are kept under close observation by the Midwives and Health Visitors from the time notification is received, and where the home conditions are good and the parents are capable of caring for the child, the baby is allowed to remain at home. In cases where the home conditions are considered to be unsuitable or other circumstances render it advisable the child is immediately taken to hospital. Close liaison between the hospital authorities and this department continues, and the Health Visitor visits all premature children discharged from hospital and makes the necessary arrangements for the proper care of the child.

#### Child Welfare Clinics

Welfare clinics continued to be well attended by the mothers who took their children of pre-school age for medical examination, diphtheria immunisation and advice on the care of infants.

The following sessions were held during the year: -

I. At Eildon Lodge Clinic Monday afternoons
Thursday afternoons.

II. At Currock Community Tuesday afternoons.

III. At Etterby Mission Hall

IV. At Raffles Community Wednesday afternoons.

At Etterby and Raffles a clinic was held on alternate Wednesdays, and a doctor was present at each session.

The following is a summary of the attendances of children at the above Clinics: —

No. of children who attended Centres during the year ... 1,942

No. of children who first attended, and on the date of their first attendance were:—

| Under one year of age | <br> | 760 |  |
|-----------------------|------|-----|--|
| Over one year of age  | <br> | 171 |  |
| Total                 | <br> | 931 |  |

No. of children who attended the Centres and at the end of the year were:—

| Under one   | year o | of age | <br> |   | 639  |
|-------------|--------|--------|------|---|------|
| Over one ye | ear of | age    | <br> | 1 | ,303 |

Total number of attendances made by children who attended the Centres 9,951.

### Supplies of Welfare Foods

Facilities were available at the main permanent clinic at Eildon Lodge and at the peripheral clinics at Currock, Etterby and Raffles, for the purchase of orange juice, cod liver oil, National Dried Milk and vitamin products. The foods were distributed by the clerk on duty, together with a member of the staff of the Food Office, or a member of the W.V.S.

# Dental Treatment Provided for Expectant and Nursing Mothers and Pre-School Children

Report by Dr. T. W. GREGORY, Senior Dental Surgeon

Only five expectant or nursing mothers requested or were referred for treatment during the year. This is in part due to the fact that a decision was reached that free dental care at the clinic should be restricted to those women coming under the domiciliary scheme. All five mothers were made dentally fit, but, of course, it will be realised that shortage of staff makes it impossible to extend the scheme as is desirable at the present time.

It will be noted that 190 pre-school children were examined as compared with 124 the previous year, and this year 148 received treatment, as compared with 112 last year.

Treatment consisted mainly of extractions under a general anæsthetic, following a complaint of severe toothache.

64 fillings were inserted, as compared with 45 the previous year. The complete figures, however, can be seen in tabular form on page 50.

(a) Numbers provided with dental care.

|                               | Examined. | Needing<br>Treatment. | Treated. | Made Dentally<br>Fit. |
|-------------------------------|-----------|-----------------------|----------|-----------------------|
| Expectant and Nursing Mothers | ی         | 5                     | 5        | S                     |
| Children under Five           | 190       | 155                   | 148      | 84                    |

(b) Forms of dental treatment provided.

| Dentures<br>Provided.     | Part.           | 3<br>uppers                      | 1                   |
|---------------------------|-----------------|----------------------------------|---------------------|
| Dent                      | Comp.           | 1<br>upper                       |                     |
| Radio-                    | grapus.         | 1                                |                     |
| Radio                     | Diessings       | T                                | 1                   |
| Silver<br>Nitr.           | ment.           | ю                                | 2                   |
| Scalings<br>or<br>Scaling | Treat-<br>ment. | 2                                | 1                   |
| Willings                  | 000             | 4                                | 64                  |
| Anæsth.                   | G.              | 4                                | 124                 |
| Ana                       | Ţ               | 1                                | T                   |
| Extrac-                   |                 | 24                               | 227                 |
| Shir has                  |                 | Expectant and<br>Nursing Mothers | Children under Five |

### Day Nurseries

The two Day Nurseries in the City provided accommodation for 10 children under 2 years of age, and 80 children between the ages of 2 and 5 years. The general running of the Nurseries continued as in previous years.

### Mother and Baby Homes

The arrangements with the Voluntary Organisations for the care of unmarried mothers and their children were continued as in previous years.

During the year the City Council paid for the 12 weeks' maintenance of one City unmarried mother in Coledale Hall.

Provision is also made for contributing to the maintenance of illegitimate children as previously, where the mother has had to have a preliminary period on her own to establish herself.

Mrs. Bush, the Superintendent of Coledale Hall, continued to act as Welfare Worker on behalf of the Council for the care and protection of illegitimate children.

During the year she has dealt with the following cases: -

| Married women expecting illegitimate children   | <br>1 |
|---|-------|
| Unmarried women expecting illegitimate children | <br>6 |
| Couples advised re adoption                     | <br>3 |
| Problems concerning illegitimate children       | <br>2 |
| Matrimonial problems                            | <br>3 |

### MIDWIFERY SERVICES

### Domiciliary Midwifery

On the 1st January, 1951, the Local Authority took over from the Carlisle District Nursing Association and from that date all domiciliary midwives were employed directly by the Council.

Ante-natal and post-natal clinics were held at Eildon Lodge as already reported on page 47.

During the year the domiciliary midwives attended 189 women in childbirth; 156 as midwives and 33 as maternity nurses. In 67 instances the midwives summoned medical aid under Section 14 (1) of the Midwives' Act, 1918.

### Supervision of Midwives

The Superintendent of the District Nurses and Midwives has acted as Non-Medical Supervisor of Midwives, while Dr. Christine Anderson (Assistant Medical Officer of Health) has undertaken the duties of Supervisor of Midwives.

The following is a summary of the number of midwives who notified their intention to practise in the City.

| In |         | notified | e. intention | practise as Midwives Maternity Nurses    | 5       |
|----|---------|----------|--------------|--|---------|
| In |         | notified | intention    | practise as Midwives<br>Maternity Nurses | 5<br>7  |
| In | No. who |          | intention    | practise as Midwives Maternity Nurses    | 35<br>7 |

### Midwifery Training

The City Council continued to operate the Part II Training School, but on account of the small number of confinements did so at a financial loss. At the time of writing training continues, but it has been decided in view of the small number of confinements and consequent difficulty in offering adequate experience to students to discontinue the school in the near future.

### General Practitioner Obstetricians

At the end of the year 21 local practitioners were on the list of General Practitioner Obstetricians of the Carlisle Executive Council.

#### HEALTH VISITING

It was not possible to increase the number of Health Visitors nor to recruit Student Health Visitors.

The following is a summary of the work done by the Health Visitors during the year:—

| Primary visits in connection with the notifi- |       |
|---|-------|
| cation of births                              | 1131  |
| Re-visits to children between                 | 1101  |
| 0-1 year 7203                                 |       |
| 1-5 years 12998                               | 20201 |
| Total number of routine visits to children    | 21332 |
| Visits to expectant mothers:—                 |       |
| Primary                                       | 212   |
| Do wieit.                                     |       |
| Visits in connection with: —                  | 449   |
| Deaths of children under 1 year               | 23    |
| Ophthalmia Neonatorum                         | 21    |
| Pemphigus Neonatorum                          | 21    |

|     | Measles: -       |          |           |        |      |     |     |
|-----|------------------|----------|-----------|--------|------|-----|-----|
|     | Under 5 ye       | ars      |           |        |      | 532 |     |
|     | Over 5 years     | 8        |           |        |      | 216 | 748 |
|     | Whooping Coug    | h:-      |           |        |      |     |     |
|     | Under 5 year     | ars      |           |        |      | 96  |     |
|     | Over 5 year      | s        |           |        |      | 13  | 109 |
|     | Pneumonia        |          |           |        | 10   |     | 27  |
|     | Chicken Pox      |          |           |        |      |     | 5   |
|     | Mumps            |          |           |        | ***  |     | 7   |
|     | V.D. Cases (at r | equest o | of Almone | r,     |      |     |     |
|     | Cumberland       | Infirma  | ary)      |        |      |     | 3   |
|     | Hospital Follow- | up (at r | equest of | Almon  | ier, |     |     |
|     | Cumberland       | Infirma  | ry)       |        |      |     | 75  |
|     | Home Help Ser    | vice     |           |        |      |     | 1   |
|     | Paratyphoid Con  | ntacts   |           |        |      |     | 1   |
|     | Housing Proble   | ms       |           |        |      |     | 16  |
|     | Requests for P   | art III  | Accommo   | dation |      |     | 8   |
| Vis | its to Child Wel |          |           |        |      |     | 413 |
|     | ,, ,, Day Nurs   | eries    |           |        | ***  |     | 5   |
|     | endance at Imm   |          | n Clinic  |        |      |     | 26  |
|     |                  |          |           |        |      |     |     |

Health Visitors also undertake a considerable amount of visiting in respect of old persons for their welfare and admission to Eventide Homes. It was decided, in consultation with the Housing Management and Children's Committees, that where problem families were re-housed the Senior Health Visitor would be the principal visitor and throughout the year she made regular visits to such families who have been accommodated in Council houses. It is gratifying to report that the joint efforts in rehabilitating such families have been successful, although progress has been slow.

#### HOME NURSING

On the 1st January the City Council took over the Home Nursing Service from the Carlisle District Nursing Association, which had done such good work over many years.

The work is carried on in the same manner as in the past and the City Council is affiliated to the Queen's Institute. During the year a full-time male nurse was engaged and has proved his worth in attending to male patients, particularly where there is any heavy lifting. At the end of the year there were six full-time (including the male) and four part-time nurses employed, equivalent to a total of eight full-time nurses.

The following is a summary of the work undertaken during 1951:—

Number of cases attended ... ... 1024 Number of visits paid ... ... 25895

# VACCINATION AND IMMUNISATION

### Vaccination

The scheme of vaccination continued to operate as in previous years. The work done at the School Clinic and by the 25 medical practitioners participating in the scheme is summarised below:—

| By Private Practitioners |        |           | 150     |
|--------------------------|--------|-----------|---------|
| Primary Vaccinations     |        |           | <br>459 |
| Re-Vaccinations          |        |           | <br>134 |
| At School Clinic         |        |           |         |
| Primary Vaccinations     |        |           | <br>309 |
| Re-Vaccinations          |        |           | <br>40  |
| ,                        | Total  | Primary   | <br>768 |
| Tota                     | Re-Vac | cinations | <br>174 |

Once again I have to point out that far too few children are being vaccinated. This is evident when the number of primary vaccinations is compared with the number of live births. Such a poor response means that many children are growing up unvaccinated. Smallpox can and will gain entry into this country in spite of the most efficient Port Health Services, and vaccination is the only known protection against this dreaded disease. It is also important to remember that primary vaccination in later life may be associated with the severe reactions not met with in infant vaccination or re-vaccination of adults. While vaccination in the presence of an outbreak of Smallpox may be highly desirable, it cannot replace systematic infant vaccination. The Health Department ensures that the parents of all infants within the City receive a letter from the Medical Officer of Health pointing out the advantages of vaccination and giving the names and addresses of all medical practitioners taking part in the scheme. For the convenience of those who wish the child vaccinated at the Council's Clinic a form of application is appended. The Health Visitors also use their best endeavours to encourage infant vaccination. At least no parent can claim ignorance of the facilities for vaccination provided by the City Council.

## Diphtheria Immunisation

The scheme for Diphtheria Immunisation was operated in a similar manner, 27 local practitioners taking part.

The following is a summary of work done: -

| By private practitioners | ada 1 | Under 5 | Five years |
|--------------------------|-------|---------|------------|
|                          |       | years   | and over.  |
| Complete Course          |       | 329     | 4          |
| Re-inforcing dose        |       |         | 32         |

| At Clinics        |         | Under 5 | Five years<br>and over. |
|-------------------|---------|---------|-------------------------|
|                   |         | years   |                         |
| Complete Course   | <br>*** | 631     | 66                      |
| Partial Course    | <br>    | _       | 19                      |
| Re-inforcing dose |         |         | 1574                    |

At the end of the year 66.1 per cent. of children under 5 years and 92.0 per cent. of children of school age had been immunised.

Table 25 shows the number of children known to have completed a full course of immunisation at any time up to 31st December, 1951.

### TABLE 25

| 'Age at 31/12/51<br>i.e. Born in<br>Year             | Under<br>1<br>1951. | 1<br>1950. | 2<br>1949. | 3<br>1948. | 4<br>1947. | 5 to 9<br>1942-<br>1946. | 10 to 14<br>1937-<br>1941. | Total<br>under<br>15. |
|--|---------------------|------------|------------|------------|------------|--------------------------|----------------------------|-----------------------|
| Number<br>Immunised                                  | 87                  | 765        | 899        | 921        | 1114       | 4228                     | 3920                       | 11934                 |
| Estimated<br>mid-year<br>child<br>population<br>1951 |                     | (          |            | under fi   | ve         | 1                        | ren 5-14                   | 14586                 |

### AMBULANCE SERVICE

This Service continued to operate as a combined Fire and Ambulance Service. The number of vehicles used in the running of the Service was 6 Ambulances, 2 sitting case cars and 1 sitting case coach.

The calls attended, journeys completed and patients conveyed, together with the mileage recorded is shown in Table 26.

### TABLE 26

|                           |          |   | Patients. | Journeys. | Mileage. |
|---------------------------|----------|---|-----------|-----------|----------|
| City Removals to Local I  | Hospital | s | 7147      | 7147      | 21511    |
| City Cases to distant loc | ations   |   | 382       | 360       | 19222    |
| Other Cases ,,            | ,,       |   | 200       | 187       | 5886     |
| Hospitals to Home (City   | )        |   | 6552      | 6557      | 18663    |
| City Hospitals to County  | y Areas  |   | 328       | 284       | 18381    |
| County to Local Hospital  | ls       |   | 13        | 12        | 379      |
| Hospital Transfers:       |          |   |           |           |          |
| (a) City Patients         | ·        |   | 671       | 597       | 1964     |
| (b) Non-City Patients     |          |   | 240       | 211       | 996      |
| Schools                   |          |   | 2278      | 446       | 4524     |
| Other Journeys            |          |   | 233       | 872       | 3886     |
| Emergencies               |          |   | 624       | 624       | 2253     |
|                           |          |   |           | -         |          |
|                           | Totals   |   | 18668     | 17297     | 97665    |
|                           |          |   |           | -         |          |

# PREVENTION OF ILLNESS, CARE AND AFTER CARE

### **Tuberculosis**

Visiting was undertaken by Health Visitors and State Registered Nurses approved by the Ministry of Health for the purpose.

The number of home visits made by these Visitors during the year was 1,191. Other information relating to Tuberculosis is given on pages 29-44.

The Tuberculosis After-Care Sub-Committee met at quarterly intervals. Through its agency one suitable patient was placed in Papworth Settlement for training, but he left the Centre on obtaining work in Carlisle.

Extra nourishment was provided in six cases and nursing requisites in sixteen cases.

The number of persons who were given special relief in respect of payments to the Home Help Service was 10.

### Mental Health and Defectiveness

The work under this Section is described on pages 57-60.

## Other Types of Illness

The Health Visitors co-operated with Hospital Staffs and General Practitioners and other appropriate individuals in dealing with persons who required their services, but the amount of work undertaken was necessarily limited. The District Nursing service made provision for after care and treatment when so requested by the practitioner in charge or hospital.

The follow up of V.D. cases in the City was undertaken by Miss Buck, Almoner of the Cumberland Infirmary. Close liaison was maintained between her and the Health Visitors, who gave assistance with cases of special difficulty.

## Provision of Nursing Equipment and Apparatus

The number of applications for nursing requisites increased during the year. These articles are stored at the Health Department and are issued to the public on the production of a note from a doctor, nurse or midwife. On each of these articles a small loan charge is made, the amount varying with the value of the article.

The number of articles loaned from the Department was 505.

### Convalescent Treatment

During the year 20 patients who were recommended by their private practitioners were sent for periods of convalescence. Each case was assessed by the Home Help Organiser and a proportion of the cost was recovered. The City Council does not accept liability for convalescent treatment of patients receiving treatment under Part II of the Act.

### Health Education

The City Council contributes to the funds of the Central Council for Health Education, who provide posters, literature, etc., for circulation in the clinics, welfare centres, etc. It must be pointed out, however, that the personal approach is of most value. The Health Visitors and Sanitary Inspectors in their daily work are really health educationalists. They can see what the housewife or food handler is doing wrong and put them on the right lines. I am not greatly in favour of health lectures; these have a very definite place where the Sanitary Inspector gives talks to a group of food handlers, e.g., Butchers' Association, but as regards the general public, it is very difficult to get those most needing instruction to attend lectures.

### HOME HELP SERVICE

The Home Help Service continued to provide assistance in the homes of many people who would otherwise have had to seek hospital or institutional care. The staff were always fully occupied and it was not always possible to provide all the help recipients would like. The need of the patient was always taken as the governing factor in allocating the amount of assistance.

At the end of the year 5 full-time and 41 part-time, equivalent to a total of 27 full-time Home Helps were employed. Help was given in 209 homes.

The special Sub-Committee dealing with cases where there was hardship, etc., in meeting the assessed charges continued to meet prior to the monthly meeting of the Health Committee. In 7 cases the charges were reduced or remitted.

### MENTAL HEALTH SERVICES

The Mental Health Sub-Committee, consisting of eight members of the Council, one with special experience in Mental Deficiency, two co-opted members and three representative members, including two doctors, meet each quarter.

The general direction of the Service was in the hands of the Medical Officer of Health, who was assisted by: -One Psychiatrist (Mental Illness) M.B., Ch.B., From D.P.M. Part-time. Regional One Psychiatrist (Mental Deficiency) L.R.C.P.E., Hespital etc., Part-time. Board One Psychiatric Social Worker, Part-time. One Assistant Medical Officer of Health, M.B., Ch.B., D.P.H. One Educational Psychologist, M.A., Ed. B. One Mental Health Worker - M.A., Social Science Diploma. This Officer also acted as Duly Authorised Officer. One Supervisor for Occupation Centre—at present employed as home teacher. Three selected men from Ambulance Service continued to act as Duly Authorised Officers. As indicated above, the Psychiatrists and Psychiatric Social Worker are Regional Hospital Board personnel. Close liaison existed between the staffs and the follow up of patients on licence was undertaken. No duties are undertaken by voluntary associations. At present there are no arrangements for the training of Mental Health Workers. Mental Illness During the year the duly authorised officers dealt with 103 patients as shown in Table 27. TABLE 27 (1) No. who consented to go as voluntary patients ... ... (2) No. who were admitted on a Three Day Order ... (3) No. dealt with by Summary Reception Orders (including 3 cases shown in (2) above) ... 32 ... ... (4) No. who were admitted as temporary patients ... 2 (5) No. considered unsuitable for admission to Mental Hospital ... ... ... 6

Mental Deficiency

Table 28 shows details of cases reported during 1951 and the action taken.

### TABLE 28

| 1. ASCERTAINMENT.  | Male.   | Female.      | Total.    |
|--|---------|--------------|-----------|
| (a) Cases reported by Local<br>Education Authority under<br>Section 57 Education Act,<br>1944. |         |              |           |
| (1) Subsection 3—Ineducable<br>Children (2) Subsection 5—In need of                            | 1       | 1            | 2         |
| Supervision on leaving School  |         | 9            | 13        |
| (b) Other defectives found to<br>be "subject to be dealt<br>with"                              | 120, 11 | 1            | 2 4       |
| TOTAL NUMBER OF CASES REPORTED   | 6       | 11           | 17        |
| 2. Disposal of Cases Reported  |         | ASSAULT ISSU | BE U. OT. |
| (a) Ascertained defectives   | DURING  | I DAIL.      |           |
| found to be "subject to<br>be dealt with"—   |         |              | henius    |
| (1) Admitted to Hospitals  | -       | to Diffe by  | _         |
| (2) Placed under Guardian-<br>ship   | -       |              | _         |
| (3) Placed under Statutory<br>Supervision  | 0       | 7            | 10        |
| (4) Action not yet taken   | 3       | 4            | 7         |
| Secretary description of the secretary   | 6       | 11           | 17        |

Table 29 gives particulars of the total ascertained mental defectives as at the 31st December, 1951:

# TABLE 29

|  | Male. | Female. | Total. |
|--|-------|---------|--------|
| (1) In Hospitals (including cases<br>on licence therefrom) | S     |         |        |
| Under 16 years of age                                      | . 10  | 5       | 15     |
| Aged 16 years and over                                     | . 39  | 41      | 80     |

| \15 \d  | 1       | Male.            | Female.       | Total.    |
|---|---------|------------------|---------------|-----------|
| (2) Under Guardianship.   |         |                  | TABLES.       |           |
| Under 16 years of age   | • • • • | 7                | borniger      |           |
| Aged 16 years and over  | • • • • | 3                | 6             | 9         |
| (3) Under Statutory Supervision                                   | on      |                  |               |           |
| Under 16 years of age   |         | 4                | 8             | 12        |
| Aged 16 years and over  |         | 39               | 21            | 60        |
| (4) Action not yet taken  |         | 3                | 4             | 7         |
| Тот   | AL      | 98               | 85            | 183       |
| No. of cases included in (2)                                      | to      | Name of the last | Service State | MEO IN    |
| (4) above awaiting hospit   |         |                  |               |           |
| treatment   |         | 2                | 5             | 7         |
|   |         | -                |               | - Paralle |
| No. of Mental Defectives not                                      | at      |                  |               |           |
| present subject to be dealt wi                                    |         |                  |               |           |
| but over whom some form<br>voluntary supervision is mai<br>tained |         |                  |               |           |
| Under 16 years of age   |         | 3                | 1             | 4         |
| Aged 16 years and over  |         | 8                | 18            | 26        |
|   |         | 11               | 19            | 30        |
|   |         |                  |               |           |

The Mental Health Worker paid 245 visits during the year and 84 home circumstances reports were supplied to Hospital Authorities in respect of patients on licence, contemplated licence or holiday.

### Occupational Treatment

Towards the end of the year, work was commenced on the adaptations of the building at Kingstown which is to be used as the Occupation Centre. The Supervisor continued to act as Home Teacher and has given instruction to 19 patients. At the time of writing the Centre is in operation.

# SECTION VI.

GENERAL PROVISION OF HEALTH SERVICES, ETC.

SECTION VI.

CENERAL PROVISION OF HEALTH SERVICES, ETC.

## GENERAL PROVISION OF HEALTH SERVICES, ETC.

### HOSPITALS

The hospitals used by the inhabitants of the area were: — General Hospitals.

Cumberland Infirmary. City General Hospital.

Maternity Hospitals.

City Maternity Hospital.

City Maternity Home.

Infectious Diseases Hospitals.

Isolation Block, Cumberland Infirmary, Carlisle.

Tuberculosis.

Blencathra Sanatorium, Threlkeld.

Pavilions, City General Hospital, Carlisle.

Isolation Block, Cumberland Infirmary, Carlisle.

Robert Jones and Agnes Hunt Orthopaedic Hospital, Oswestry.

Stannington Sanatorium.

Shotley Bridge Hospital.

Ellerbeck I.D.H.

Meathop Sanatorium.

Ormside Sanatorium.

Longtown Sanatorium.

Mental Hospitals.

Garlands Mental Hospital (Mental Illness).

Dovenby Hall Hospital (Mental Defectives).

Other Hospitals for the Sick and Convalescent.

Border Counties Home for Incurables, Strathclyde House.

Cumberland & Westmorland Convalescent Institution, Silloth.

In special circumstances patients are taken to Hospitals in Newcastle, Edinburgh or Glasgow for treatment.

The position regarding beds for the chronic sick did not improve throughout the year.

# PUBLIC HEALTH LABORATORY SERVICE

The work was carried out at the Laboratory of the Cumberland Infirmary under the direction of Dr. J. Steven Faulds and close liaison is maintained with the Laboratory especially in the investigation and control of epidemic disease.

### PUBLIC ANALYST SERVICE

Cyril J. H. Stock, Esq., B.Sc., F.I.C., etc., of Darlington, is Public Analyst to the Council, and samples of water, foods, etc., were examined at his laboratory.

### REGISTRATION OF NURSING HOMES

There were no new registrations during the year. The number of homes at the end of the year was 3, and these were periodically inspected and conditions generally were found to be satisfactory.

### NATIONAL ASSISTANCE ACT, 1948

A separate Committee, the Welfare Services Committee is responsible for the provision of services under this Act. The Medical Officer of Health is the chief officer of the Welfare Services Committee and is assisted by a part-time Administrative Assistant (Welfare Services) Mr. Davidson, who also holds the post of Superintendent Registrar. During the year under review still greater calls on the services of the Health Department staff had to be made in order to facilitate the working of the Welfare Section. It is obvious that in the near future a closer integration of the two staffs will be necessary in the interests of efficiency and possibly economy.

During the year no action was taken under Section 47 of the National Assistance Act (this section deals with the compulsory removal of persons incapable of looking after themselves).

The Committee maintains Barn Close, Stanwix, an Eventide Home which can accommodate 23 ladies. During the year Lime House, Wetheral, which can accommodate a total of 39 aged and handicapped persons (male and female) was opened. The Council still maintains some persons in Part III Accommodation provided by other Authorities.

# SECTION VII.

ANNUAL REPORT OF THE CHIEF SANITARY INSPECTOR

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# ANNUAL REPORT

OF THE

## CHIEF SANITARY INSPECTOR,

ERNEST BOADEN, A.M.I.San.E.

### GENERAL OBSERVATIONS.

In presenting this, my first annual report upon the sanitary inspection of the City for the year 1951, I wish to emphasise that the information contained therein illustrates the work carried out, not by an individual, but by the combined efforts of a team consisting of Assistant Inspectors, Food Inspectors, Abattoir and Lodging House Managers and other staff, both technical and clerical, by whose loyalty and industry, supported by the encouragement and advice of the Medical Officer of Health, I am able to record a year of satisfactory progress.

This has been a year of taking stock preparatory to introducing such changes as it is thought will lead to improved efficiency in the Department, and in order to cope first with the extra work which will result from the Boundary Extensions, and second, the additional demands on the service resulting from the rapid changes that are taking place in our way of living. Authority was obtained to increase, by one, the establishment of Sanitary Inspectors. This new appointment will be made during 1952, and at the same time the district system of inspection will be introduced whereby it is expected, inter alia, that a lot of the unproductive travelling time, unavoidable under the present system, will be eliminated.

Whilst the number of solicited calls on the Sanitary Inspectors has remained fairly high, some effort has been made to clear up the arrears of unabated notices. A hardening of the Department's attitude towards outstanding notices was called for, with satisfactory results.

The problem of unsewered houses, which has been virtually non-existent for this Authority for many years, re-appeared in April, when a number of such premises were added to the City as a result of the Boundary Extensions. Negotiations have already been opened up in respect of some of these dwellings in order to effect an improvement to the existing conditions.

It is unfortunate that, owing to the shortage of suitable alternative housing accommodation, the Public Health Act is having to be used as a palliative to secure the abatement of nuisances in insanitary properties which should more properly be dealt with under the provisions of the Housing Acts. The aim of

this Department is to secure, as far as is practicable, the maximum of comfort for the tenant, together with the minimum of hardship for the owner. This has necessitated a good deal of personal contact between my staff and the persons concerned, but in these times of low incomes and high costs of repair, something more than the cold, inflexible official approach is called for, and it is thought to be time well spent. As a result, it has not been found necessary to institute any prosecution for non-abatement of sanitary nuisances, nor to carry out any work in default during the year.

Renewal of registration for two common lodging-houses was refused at the beginning of the year, and there are now only two such houses in the City, one of which is municipally owned and controlled.

Some special attention has been given to premises in which food is handled, but it must be remembered that whilst increased publicity has been given to such work in recent years, these duties constitute only one of the many aspects of environmental hygiene. Neither this, nor any other, for the time being, popular facet of public health work should be allowed unduly to upset the aim of the sanitarian which is not to jump from one fancied emergency to the next, but rather to pursue a properly balanced, progressively steady aim towards generally improved conditions. Credit must be given to a number of traders who have voluntarily improved their premises, and patience extended towards those who, though wishing to do so, are temporarily prevented because of shortages in certain preferred materials.

There has been a considerable increase in the number of registered retailers of ice-cream and iced lollies. Although there may be a little additional handling involved in the wrapping of ice-cream it is usual for it to be done under the best of conditions, and consequently applicants have been encouraged to sell the pre-wrapped article. Some 78 per cent. of the total number of registered vendors in the City deal exclusively in pre-wrapped ice-cream.

The bacterial standard of some locally manufactured ice-cream was for a time somewhat disappointing. This was confined to two manufacturers. It would appear that the installation of elaborate plant is by no means the complete answer to cleanliness, there being a tendency for some operators to be misled by the attractive appearance of the stainless steel into becoming less thorough in their work. In the two cases above mentioned, much trouble was experienced until it was found that the owners were unaware that certain parts of the apparatus could be dismantled. Since

this has been demonstrated to them there has been no further trouble. It would be well for the manufacturers of such plant to explain these details to their customers.

Two successful prosecutions were brought under the Food and Drugs Act during the year.

There has been an improvement in the standard of Tuberculin Tested milk examined for cleanliness, a class of milk which has never been particularly noteworthy for its keeping quality. This improvement is attributed largely to the fact that the two largest dairies in the City now pasteurise all milk passing through their hands with the exception of a very small quantity from Channel Island cows. This is not the proper solution to the problem which still remains at the place and time of production. It cannot, therefore, be said that the transfer of the responsibility for the supervision of the producer, from local authorities to the Ministry of Agriculture and Fisheries has, in this respect, been a successful move.

The total number of animals slaughtered at the Public Abattoir remains fairly constant whilst the number of pigs slaughtered at the Bacon Factory has now reached the record figure of over 104,000. It is felt that the throughput at the Bacon Factory has now come to the stage where an additional Inspector will have to be employed if a satisfactory standard of meat inspection is to be maintained. Apparently it is impracticable to spread the load evenly throughout the week and at the peak periods the resources and energy of the Inspector on duty must indeed be strained. This increased demand on the time of the two Meat Inspectors has confined them to their own particular duties and they cannot therefore be considered available for general sanitary work even in times of emergency.

Conversely to switch Inspectors away from their routing duties to undertake relief work at the Bacon Factory upsets the whole rhythm of the Department.

A good deal of indiscriminate tipping on waste land and particularly in some of the small streams and water ditches in the area has been observed during the year. This consists largely of garden refuse and discarded metal such as bed ends, cycle frames, perambulator chassis, etc. There appears to be a common belief that such articles will not be collected along with more usual refuse. If this idea could be dispelled and the public encouraged to place everything out for collection in the normal way, it would not only promote greater tidiness throughout the town, but would probably be less expensive in the long run. As it is, special clearing up has to be organised from

time to time on these unofficial dumps, at a cost far greater than would obtain in the normal course of routine collection.

It is a matter for regret that adequate hand washing facilities, with running hot and cold water is not provided for the children in all of our schools. These children are the food handlers of the future and it is at this age, when the mind is young and receptive, that lasting good habits are developed. Talks to the children on the subject of personal hygiene have been considered, but it would be pointless to do so, so long as the essential facilities are absent.

The work of the sanitarian becomes less straightforward as the years pass. No longer are the dangers to public health obvious dangers capable of easy demonstration. The open sewer, the privy midden, the filth and squalor so often associated with ignorance and abject poverty are, in the main, things of the past. We are now campaigning against the unseen rather than the seen.

There is no house, for example, in Carlisle, the condition of which is likely seriously to affect the health of its occupants in a matter of weeks or months or even in a year. There are, however, houses the effect of which upon the physical and mental well being of the tenants is such as to represent a real danger to health over a number of years. This fact would be of less immediate importance were the problem in its infancy, but houses of this type were occupied in 1939 and before, and they are still occupied to-day, very often by the same families—a period of more than thirteen years. This must surely be approaching the breaking point in both the physical resistance and the patience of these occupants.

On the matter of food handling, a greater degree of subtlety is now required in the approach to the problem. It is again becoming a question of the unseen rather than the seen. There are very few, if any, food premises in which dirty conditions are obvious either in the public or private parts of the establishment. Nevertheless, it is by no means certain that as yet a sufficient number of food handlers appreciate the significance between clean food and safe food. There are still too many instances apparent to the trained and experienced eye of practices being carried out which constitute a real danger to health even in premises which to all intents and purposes, appear impeccable.

The fight is now against the individual who considers the cry "danger of food poisoning," and the need for something better than visual cleanliness to be a bogey existing only in the mind of the Sanitary Inspector or mere frills thought up by him in order to inflate his own importance.

### WATER SUPPLY.

During the year 11 samples of water were obtained for chemical analysis and bacteriological examination. Eight were taken from the City's mains and 3 from private sources.

Three samples were taken from a private well attached to a house in the Harraby Green district. The Bacteriologist reported adversely in each case. This house had been on the list under fairly high priority for future slum clearance action. The position was explained to the owner who agreed to put the house out of use for human habitation. The tenant was forthwith re-housed.

### RIVER POLLUTION.

Inspections of the water courses in the district were carried out from time to time by the Sanitary Inspectors. The majority of nuisances arose as a result of improper dumping of refuse by the public. In a number of cases, streams and ditches were found to be overgrown, but as this is a matter of interference with the natural flow of the stream and consequent drainage of the surrounding land, it could more properly be dealt with under the Land Drainage Act, and such cases were referred to the City Engineer.

One factory on a new industrial site, as yet unsewered, consulted this Department regarding the discharge of its trade waste into an open ditch. After discussions with the works chemist, a suggested treatment of the effluent was agreed and tried for an experimental period of three months. Modifications were then made to the method of treating the waste and a further experimental period of three months is now in progress.

### DRAINAGE AND SEWERAGE.

There have been 418 inspections in respect of drainage defects and reconstruction. New drainage was provided at 76 premises and reconstructed at 34 premises. Seven new sinks were provided in dwelling-houses.

### CLOSET ACCOMMODATION.

The question of the conversion of dry types of closets to water closets is one which has not arisen in Carlisle for many years as, with the exception of a mere handful of houses so sited as to be impossible of connection to the sewers, the whole of the City is on the water carriage system. These very few houses are mostly scheduled for future action under the Housing Acts. With the extension of the City Boundaries in April, a number of houses with dry closets came into the area. Most of them are isolated buildings which would be impracticable to connect to a sewer, and for these the best possible conservancy system is all that can be done. Wherever there is any possibility of premises being connected to the water carriage system, the matter is being investigated.

# STORAGE OF HOUSEHOLD REFUSE.

The control on the use of zinc continues and until galvanised dustbins are once more available in quantity, the Council's scheme for providing bins under Section 75 (3), Public Health Act, 1936, as a public service chargeable to the general rate fund, will probably remain in abeyance. One midden ashpit has been abolished and a pail closet and ashbin provided.

# COMMON LODGING HOUSES.

During the year two common lodging houses were refused reregistration and the number in the City consequently fell to two, one of which, Lowther House, is municipally owned and managed. Regular visits are made by members of the Health Committee. Radio has recently been installed and recreational games provided, whilst considerable purchases of bedding have replenished a stock which had become depleted owing to the supply position.

The one private lodging house is well conducted and caters more for residents of long standing than for casual visitors. Twenty-three inspections were made of these premises.

| The    | available       | accommo     | dation i | e as fol | lows · - |
|--------|-----------------|-------------|----------|----------|----------|
| 1 1165 | SEA SELLISIONES | 2MCCOILLING |          | 5 45 IU  | TOWN D   |

| Situation.         | No. of<br>Beds. | Accommodation available for. |
|--------------------|-----------------|------------------------------|
| Lowther House      | 84              | Males only.                  |
| Lindisfarne Street | 17              | Males only.                  |
| Total No. of beds  | 101             |                              |

## TENTS, VANS AND SHEDS.

There is no permanent problem regarding mobile dwellings in the City. Very occasionally one appears for a few days and then passes on. There are, however, several temporary dwellings at Greymoorhill which should be demolished at the earliest practicable time.

The four licensed living-vans at the Sands are occupied by show people and are structurally, and in their maintenance, of a very high standard.

## STABLE PREMISES.

Eight stables were inspected during the year. There are still several small stables situated in congested areas just off the City centre, and in fairly close proximity to dwelling-houses. The tendency is for these to decrease in number as the horse is sup-

planted by the motor car. The employment of horses is now almost exclusive to the retail milk delivery business and the itinerant dealer in rags, sacks, and other readily salvageable materials. Regular inspections are made for cleanliness and to ensure the frequent removal of manure.

### RODENT CONTROL.

Two full-time Rodent Operators were appointed in June of this year. Their first task was an investigation to ascertain the situation and extent of any rat infestations which might exist within the City. Only one major infestation was revealed. The building up of an efficient organisation has been pursued with vigour, properly organised sewer and surface treatments have regularly taken place on Corporation owned property.

The service has been introduced to a good number of the business houses in the City and has had a good reception. With very few exceptions and only then when the firm is already under contract with one of the private rat extermination organisations, the services of this Department have been readily sought and much satisfaction at the results has been expressed.

Rarely are individual premises treated, the block system or a modification thereof usually being employed. Ten such areas comprising 326 separate premises were dealt with during the six months in which the service has operated. One major and 42 minor infestations by rats and 15 small infestations by mice were discovered and treated.

### Surface Treatments.

Complaints or reports received and investigated 189

| 1  |                     |                       |                                 |                          |
|--|---------------------|-----------------------|---------------------------------|--------------------------|
| Premises inspected for presence of rats or mice                | Dwelling<br>Houses. | Business<br>Premises. | Local<br>Authority<br>Premises. | Agricultural Properties. |
| Premises in which evidence of the presence of rats or mice was | 020                 |                       |                                 |                          |
| found.   | 153                 | 83                    | 18                              | 3                        |
| Visits of inspection and treatment.                            | 1009                | 913                   | 211                             | 15                       |

Number of pre-bait, test and post baits laid 7,241 Number of poison baits laid ... 1,886 Total baits laid, sewer and surface ... 11,886

No attempt has been made to estimate the number of rats destroyed. To give a figure would be purely speculative and would have no real value.

# Sewer Treatments.

Two maintenance treatments concentrating on the older portions of the City's sewers were carried out, the first during the months of July and August, and the second in November. A percentage of test baiting of the outlying sewers was also undertaken to ascertain the movements, if any, of the colonies.

Number of pre-baits laid ... 2029 Number of poison baits laid ... 730

# SMOKE ABATEMENT.

Whilst Carlisle does not suffer from a smoke laden atmosphere to the extent of the more highly industrialised towns, there is still room for improvement. It would seem to be more than ever necessary for industrial users of solid fuels to adapt their existing boiler plants and train their firemen so as to be able to handle the inferior fuels which are now apparently their main source of supply, in an economic and efficient manner.

Domestic chimneys are still by far the main cause of atmospheric pollution and the present policy of installing approved smokeless firegrates in all Council houses is a definite step forward in the right direction.

It is hoped, with the appointment of an additional Sanitary Inspector in 1952, to commence routine observations into atmospheric pollution in the City.

### OFFENSIVE TRADES.

At the end of the year there were 6 registered offensive trades within the City, and these have been conducted satisfactorily. Several dealers, taking advantage of the shortage of various articles set up from to time as collectors of bags, rags, scrap metal, etc., and whilst their methods of conducting their business falls not far short of the offensive on occasions, they are not scheduled offensive trades and can only be dealt with under the Nuisance sections of the Public Health Act.

Number of inspections ... 45 Number of notices served ... 1

# INFECTIOUS DISEASES.

One hundred and fifty-four visits were made by the Sanitary Inspectors for the purpose of inquiring into and control of, cases of infectious diseases. Disinfection is carried out by the Ambulance Officer.

# CINEMAS, THEATRES, DANCE HALLS, ETC.

During the year 51 inspections were made of cinemas, etc., in the City. Close liaison has been established between this

Department and that of the Magistrates' Clerk, whereby any serious infringement of the regulations may be brought to the notice of the Magistrates at the time of application for renewal of licences.

No. of premises decorated ... 2 No. of premises modernised ... 2

### PUBLIC CONVENIENCES.

The usual high standard of cleanliness in the public conveniences in Carlisle has been maintained. New types of soap dispensers were introduced in the underground lavatories as an experiment and have proved very satisfactory. Permission was obtained to erect signs indicating the location of the public conveniences in the vicinity of historical and other sites likely to be of interest to tourists and other visitors. Despite the increased cost of maintaining this service, it has not been thought good policy to advise any increases in the charges to the public. Personal hygiene is to be encouraged and very often the public lavatories are the only means open to street traders and those engaged in the delivery of foodstuffs to preserve the desired standard of cleanliness.

It has been observed that, in certain towns, one hand basin with cold water supply and paper towels is provided for public use free of charge. This is in addition to the usual facilities under the control of the attendant and is intended to encourage the habit of washing the hands after using the toilet.

#### SHOPS INSPECTED.

Eighty-four inspections were made under the provisions of the Shops Act, 1950, relating to hours of closing and welfare of the assistants. Three contraventions of the Act were found, which were the subject of three notices served.

### FERTILISERS AND FEEDING STUFFS.

Eleven samples (7 fertilisers and 4 feeding stuffs) were taken during the year under the provisions of the Act of 1926. All these samples were certified by the Public Analyst to be genuine. The statutory statements in respect of 2 fertilisers were not readily available at one vendor's premises, nor had advantage been taken of the alternative provided by the Act that the articles may be marked in a prescribed manner and a register of such marks kept. A warning letter was sent, resulting in the immediate correction of the offence.

# SANITARY INSPECTION OF THE DISTRICT.

# 1. Number and Nature of Inspections.

During the year 1951, the following inspections were made by the Sanitary Inspectors to the premises detailed:—

| DWELLING HOUSES-Total Visits .                    | 1,458   |
|---|---------|
| Re Courts and Yards                               | 64      |
| ,, Dustbins                                       | 5       |
| ,, Drain Inspections and Repairs                  | 418     |
| ,, Drain Tests                                    | 8       |
| ,, Waterclosets                                   | 145     |
| W-1 C   | 12      |
| Other structural defeats                          | 13      |
| Dirty houses                                      | 1,015   |
| Animals—poultry etc                               | 66      |
| Accumulations offensive                           | 28      |
| Re Bugs (private houses)                          | 00      |
| ,, Others (private houses)                        | 48      |
| Houses let in lodgings                            | 10      |
| Other nuisances                                   | 90      |
|   |         |
| MISCELLANEOUS PREMISES.                           |         |
|   |         |
| Common lodging-houses                             | . 23    |
| Tents, vans, sheds, fairs, etc.                   | 91      |
| Schools   | . 18    |
| Infectious diseases                               |         |
| Food poisoning (suspected) Factories (mechanical) |         |
| Factories (non-mechanical)                        |         |
| Workniages  |         |
| Smoke observations                                |         |
| Visits to holler plants                           |         |
| Cinemas and theatres                              | 40      |
| Premises licensed for singing and dancing         | . 40    |
| Dangerous structures                              |         |
| Other drainage inspections and rengine            | 36      |
| Cowstieus   | . 5     |
| Dairies   | 01      |
| Stables   | 0       |
| Figgeries   | 15      |
| Staughterhouses                                   | 07      |
| Offension to 1                                    | 10      |
| Offensive trades                                  | 45      |
| Public conveniences, etc                          | 129     |
| Open spaces—tips, etc. Swimming baths and pools   |         |
| Watercourses                                      |         |
|   | 36      |
| FOOD HAVE   |         |
| FOOD HANDLING AND PREPARATION P                   | REMISES |
| Re Ice-cream                                      |         |
| Bakehouses  | 92      |
| Fried fish shope                                  | 73      |
|   | 20      |

| Butchers                            |     |         | 227   |
|-------------------------------------|-----|---------|-------|
| Market stalls                       |     |         | 301   |
| Restaurants and cafes               |     |         | 151   |
| Public houses, etc                  |     |         | 21    |
| Street vendors, barrows, etc.       |     |         | 38    |
| Other feed memices                  |     |         | 158   |
| Meat preparation premises           |     |         | 88    |
| Fertilisers and feeding stuffs      |     |         | 17    |
|                                     |     | marking | 14    |
| Pharmacy and Poisons Act            |     |         | 15    |
| Shops Act, 1950                     |     | -       | 84    |
| Merchandise Marks Act               |     |         | 101   |
|                                     |     |         | 101   |
| SAMPLING.                           |     |         |       |
| Milk (bacteriological)              |     |         | 191   |
| ,, (chemical)                       |     |         | 22    |
| Water sampling (bacteriological)    |     |         | 6     |
| ,, ,, (chemical)                    |     |         | 5     |
| Other sampling (bacteriological)    |     |         | 106   |
| ,, ,, (chemical)                    |     | /       | 29    |
| Food and Drugs Act sampling         |     |         | 35    |
| MEAT AND FOOD INSPECTION            | V.  |         |       |
| At Slaughterhouse                   |     |         | 824   |
| Pagen Factory                       |     | ***     | 360   |
| Chang ata                           |     |         | 357   |
| ,, Shops, etc                       |     | ***     | 001   |
| HOUSING ACT, 1936.                  |     |         |       |
| Re Houses inspected and recorded    |     |         | 49    |
| ,, Repairs (Secs. 9, 10 and 16)     |     |         | 13    |
| ,, Demolitions (Secs. 11 and 13)    |     |         | 79    |
| Closing (Con 19)                    |     |         | 27    |
| ,, Visits in connection with Perm   | itt | ed      |       |
| Numbers                             |     |         | 22    |
|                                     |     |         | 18    |
| ,, Land Charges Forms               |     |         | 18    |
|                                     |     | 1010    |       |
| RODENT CONTROL—PESTS AC             |     |         |       |
| At Dwelling-houses                  |     |         | 109   |
| ,, Other premises                   |     |         | 102   |
| ,, Tips, open spaces, etc           |     |         | 7     |
| ,, Sewers, etc                      |     |         | 4     |
| Rent Restriction Acts               |     |         | 1     |
| Disinfestation (other than dwelling | g-h | ouses)  | 3     |
| Miscellaneous                       |     |         | 374   |
| Interviews                          |     | *       | 1,173 |
| Cleansing Department                |     |         | 57    |
| Tips, etc                           | V   |         | 30    |
| Salvage                             |     |         | 8     |
|                                     |     |         |       |

# 2. Number of Notices Served.

To secure the abatement of nuisances and the removal of conditions prejudicial to health, the following action was taken:—

| Number of Nuisances and Defects found     | <br>- C. | 508 |
|---|----------|-----|
| Number of Informal Notices served         | <br>·    | 302 |
| Number of Informal Notices complied with  | <br>90   | 270 |
| Number of Statutory Notices served        | <br>     | 54  |
| Number of Statutory Notices complied with | <br>     | 46  |

# 3. Complaints Received.

During the year 492 complaints were received relating to the following matters:—

| Nature of Comp         | laint.    |         | DIXI I    | Nu | mber |
|------------------------|-----------|---------|-----------|----|------|
| General Disrepair-     |           |         |           |    |      |
|                        | Defective | Firepla | ces       |    | 6    |
|                        | ,,        | Rainwa  | ter pipes | 3  | 14   |
|                        | ,,        | Window  | ws        |    | 5    |
|                        | ,,        | Chimne  | eys       |    | 5    |
|                        | ,,        | Doors   | ***       |    | 5    |
|                        | ,,        | Plaster | work      |    | 21   |
|                        | "         | Floors  |           |    | 9    |
|                        | ,,        | Roofs   |           |    | 42   |
|                        | ,,        | Eaves,  | Gutters   |    | 8    |
|                        | ,,        | Sinks   |           |    | 8    |
| Burst water pipes      |           |         |           |    | 2    |
| Dampness               |           |         |           |    | 50   |
| Defective watercloset  |           |         |           |    | 21   |
| Choked waterclosets    |           |         |           |    | 3    |
| Choked drains          |           |         |           |    | 49   |
| Flooding               | ***       |         |           |    | 8    |
| Insufficient ashes acc | ommodatio | on      |           |    | 1    |
| Defective ashbins      |           |         |           |    | 1    |
| Accumulations          |           |         |           |    | 21   |
| Dirty premises         |           |         |           |    | 12   |
| Vermin                 |           |         |           |    | 8    |
| Foul and obnoxious of  | dours     | ***     |           |    | 21   |
| Water supply           |           |         |           |    | 2    |
| Dangerous buildings    |           |         |           |    | 3    |
| Smoke nuisances        |           |         |           |    | 8    |
| Surface drainage       |           | oi      |           |    | 5    |
| Overcrowding           |           |         |           |    | 3    |
| Rats and mice          |           |         |           |    | 71   |
| Factories              |           |         |           |    | 1    |
| Housing                |           |         | me-       |    | 3    |
| Insects, etc           |           |         |           |    | 40   |
| Miscellaneous          |           | 200     |           |    | 36   |

The following complaints were referred to other Corporation Departments:—

| Miscellaneous    |        |          | <br> | 2  |
|------------------|--------|----------|------|----|
| Removal of refu  | se     |          | <br> | 7  |
| Choked drains    |        | ***      | <br> | 13 |
| Choked street gu | ıllies |          | <br> | 5  |
| Dangerous struc  | tures  |          | <br> | 4  |
| Defects to Corpo | ration | property | <br> | 8  |
| Offensive smells |        |          | <br> | 5  |
| Rats             |        |          | <br> | 3  |
| Water supply     |        |          | <br> | 2  |
| Housing          |        |          | <br> | 2  |
| Vermin and inse  | cts    |          | <br> | 1  |
|                  |        |          |      | 52 |

## 4. Record of Nuisances Abated and Work Done.

During the year the total number of nuisances abated or defects remedied either as a result of informal or statutory action, was as follows:—

|  |  | informal statutory |  | <br>270<br>46 |
|--|--|--------------------|--|---------------|
|  |  |                    |  | 316           |

#### HOUSING.

The need for more housing accommodation is demonstrated daily. In some cases of occupation of houses by more than one family, the discontent must be extremely acute, as evidenced by the number of appeals received from families begging to be allowed to occupy condemned properties.

Along with the ever present problem of the further deterioration of near unfit dwelling-houses a new situation is being created in certain houses of good structure and position but which, by reason of their size, expense, or the fact that they are old fashioned in design and consequently more difficult to work and organise, are being let off in lodgings or converted so as to offer accommodation for certain types of mobile workers. These houses were originally designed for one family and are not suitable for multiple occupation. Probably the best solution for the future of such streets of houses would be for them to be converted into flats in a properly organised and planned manner. But, whilst they remain in the hands of many owners and until alternative accommodation would be available for the occupants during such alterations, the best method of dealing with them would appear to be to exercise some measure of control by means of byelaws in respect of houses let in lodgings as provided for by Section 6. Housing Act, 1936.

Overcrowding.

The acute housing shortage has prevented the strict application of the overcrowding provisions of the Housing Act. Without carrying out a complete survey it is impossible to compile statistics of overcrowding. The Housing Department have a list of applicants who are overcrowded, and to carry out a census would be a wasted effort owing to the fact that, as new houses are being built, overcrowded families are being re-housed under a system of priorities.

The Health Statistics relative to housing are as follows:—

Number of new houses erected in the Borough during the year:—

| The Health Statistics relative to housing are as followed   | ows: -     |
|---|------------|
| Number of new houses erected in the Borough duris   | ng the     |
| year:—  |            |
| 1. Erected by the Local Authority. Temporary Permanent  | Nil<br>352 |
| 2. Erected by other Persons, or bodies  | 29<br>7    |
| and the state of the section of the section of the section of   |            |
| HOUSING STATISTICS.   |            |
| Inspection of Dwelling-houses during the Year.  |            |
| 1. (a) Total number of dwelling-houses inspected for housing defects (under the Public Health or  |            |
| Housing Acts)   | 442        |
| (b) Number of inspections made for the purpose  | 1,627      |
| (c) 2 control of the property | -10-1      |
| 2. (a) Number of dwelling-houses (included under Sub-   |            |
| head 1 (a) above) which were inspected and  |            |
| recorded under the Housing Consolidated   | 10         |
| Regulations, 1926   | 12         |
| (b) Number of inspections made for the purpose  | 40         |
| 3. Number of dwelling-houses found to be in a state so  |            |
| dangerous or injurious to health as to be unfit   |            |
| for human habitation  | 12         |
| 4. Number of dwelling-houses (exclusive of those re-  |            |
| ferred to under the preceding sub-head) found   |            |
| not to be in all respects reasonably fit for human  |            |
| habitation  | 120        |
| Remedy of Defects during the Year without Service of  |            |
| Formal Notices.   |            |
| Number of defective dwelling-houses rendered fit  |            |
| in consequence of informal action by the Local  |            |
| Authority or their Officers   | 94         |
| Number of back-to-back houses made into   | 27.11      |
| through houses  | Nil        |
| Number of houses demolished   | Nil        |

| Actio | on under Statutory Powers during the Year.            |      |
|-------|---|------|
| A.    | Proceedings under Sections 9, 10 and 16 of the Hous-  |      |
|       | ing Act, 1936:—                                       |      |
| 1.    | Number of dwelling-houses in respect of which notices |      |
|       | were served requiring repairs                         | Nil  |
| 2.    | Number of dwelling-houses which were rendered fit     |      |
|       | after service of formal notices: —                    |      |
|       | (a) by owners   | Nil  |
|       | (b) by Local Authority in default of owners           | Nil  |
|       |   |      |
| В.    | Proceedings under Public Health Acts:—                |      |
| 1.    |   |      |
|       | were served requiring defects to be remedied          | 54   |
| 2.    | Number of dwelling-houses in which defects were       |      |
|       | remedied after service of formal notices: —           |      |
|       | (a) by owners   | 46   |
|       | (b) by Local Authority in default of owners           | Nil  |
|       |   |      |
| C.    | Proceedings under Sections 11 and 13 of the Housing   |      |
|       | Act, 1936:—   |      |
| 1.    |   |      |
|       | Demolition Orders were made                           | 8    |
| 2.    | Number of dwelling-houses demolished in pursuance     |      |
|       | of Demolition Orders                                  | 7    |
| 3.    | Number of dwelling-houses in respect of which an      |      |
|       | undertaking was accepted under Sub-Section (2)        |      |
|       | of Section 11   | 2    |
|       |   |      |
| D.    | Proceedings under Section 12 of the Housing Act, 198  | 36:- |
| 1.    | Number of separate tenements or underground rooms     |      |
|       | in respect of which Closing Orders were made          | 3    |
| 2.    | Number of separate tenements or underground rooms     |      |
|       | in respect of which Closing Orders were deter-        |      |
|       | mined, the tenement or room having been               |      |
|       | rendered fit  | 10   |

# FACTORIES ACTS, 1937 and 1948.

# Inspections for purposes of provisions as to health (including inspections made by Sanitary Inspectors).

|  | Number          | NUMB              | Occupions           |                          |
|--|-----------------|-------------------|---------------------|--------------------------|
| PREMISES.  | on<br>Register. | Inspec-<br>tions. | Written<br>Notices. | Occupiers<br>Prosecuted. |
| (i) Factories in which<br>Sections 1, 2, 3, 4 and<br>6 are to be enforced<br>by Local Authority.<br>(ii) Factories not in-<br>cluded in (i) in | 109             | 83                | 8                   |                          |
| which Sec. 7 is enforced by the Local Authority.  (iii) Other Premises in which Section 7 is   | 322             | 109               | 4                   |                          |
| enforced by the<br>Local Authority.  | 6               | . 2               | 2                   |                          |
| TOTAL  | 437             | 194               | 14                  | -                        |

# 2. Cases in which defects were found.

| T. Company                                       | N  |            | cases in wh<br>were found. |                    | Number of cases in      |
|--|--|------------|----------------------------|--------------------|-------------------------|
| PARTICULARS.                                     |  | Reme-      | Refe                       | erred              | which pro-<br>secutions |
|  | Found.   | died.      | to H.M.<br>Inspec.         | by H.M.<br>Inspec. | were<br>Instituted.     |
| Want of Cleanliness                              |  |            |                            |                    |                         |
| (Sec. 1)   | 4  | 3          | -                          | 1                  | -                       |
| Overcrowding (Sec. 2)<br>Unreasonable Temp.      | No. of Lot, Lot, Lot, Lot, Lot, Lot, Lot, Lot, | ALCOHOL: N | the Total                  | benefit as         |                         |
| (Sec. 3)   | 2  | 2          |                            | 1                  | 100 4                   |
| Inadequate Ventilation                           | STORESTON !                                    | HERMAN TO  |                            |                    |                         |
| (Sec. 4) Insufficient Drainage                   | -  | Trans      | -                          | The state of       | 800-                    |
| (Sec. 6) Sanitary Conveniences (Sec. 7)          | -  | -          | - 1                        |                    | -                       |
| (a) Insufficient                                 | 2  | 2          | -                          | -                  | -                       |
| (b) Unsuitable or defective (c) Not separate for | 4  | 2          | -                          | 4                  | -                       |
| sexes  | 1  | 1          | ·                          | 2                  | -                       |
| Act (not including offences relating to          |  |            |                            |                    |                         |
| Outwork)   | 1  | 1          | 3                          | mas— na            | -                       |
| TOTAL  | 14   | 11         | 3                          | 8                  | _                       |

#### OUTWORKERS.

There was 1 outworker registered within the City engaged in the making of knitwear.

## INSPECTION AND SUPERVISION OF FOOD.

#### MILK SUPPLY.

Carlisle is relatively fortunate in its retail milk supply insofar that almost the entire distribution is in the hands of two large dairies, both of which are modern in design, extremely well equipped and satisfactorily managed. Supplies come to them from innumerable producers by way of a complicated system involving the Ministry of Food and the Milk Marketing Board. All producers are not of the same standard either in the cleanliness or quality of their milk and as the dairy is responsible for the milk on both these counts, once it has been bulked, it will be realised that they carry a great responsibility. For their own protection these dairies have set up laboratories wherein regular daily tests are carried out in order to weed out, so far as is possible, milk which is below standard in either butter fat content or keeping quality. The souring of milk is very often accelerated by the conditions under which it is kept by the purchaser. All milk passing through these dairies is pasteurised with the exception of a very small quantity produced from Channel Island cows. There are, in addition to the above, 3 retailers of Tuberculin Tested Milk and 2 retailers of Undesignated Milk in the City.

# Milk and Dairies Regulations, 1949.

| No. of milk distributors on the Register  No. of Dairies on the Register     |       | 10<br>5 |
|--|-------|---------|
| The Milk (Special Designations) (Raw Milk) Regulat                           | ions, | 1949.   |
| No. of Dealers licensed to use the designation "Tuberculin Tested"           |       | 9       |
| The Milk (Special Designations) (Pasteurised and Sterilis Regulations, 1949. | sed)  |         |
| No. of Dealers (Pasteurisers) licences                                       |       | 5       |
| No. of Dealers licensed to use the designation  Pasteurised                  |       | 18      |

400 samples of milk were submitted for bacteriological examination. 388 were samples of designated milk, and of these 70 failed to pass the tests prescribed by the Milk (Special Designations) Regulations 1936-49. Twelve undesignated milks were also submitted and 6 were found to be unsatisfactory.

The following tables give the information in detail: -

# HEAT TREATED MILK.

|                                 |                 | PAS            | SED.  | FAI            | LED.   | Unsatis. Samples<br>Percentage. |       |  |
|---------------------------------|-----------------|----------------|-------|----------------|--------|---------------------------------|-------|--|
| DESIGNATION.                    | No. of Samples. | Meth.<br>Blue. | Phos. | Meth.<br>Blue. | Phos.  | Meth.<br>Blue.                  | Phos. |  |
| T.T.<br>Pasteurised             | 92              | 86             | 90    | 6              | 2      | 6.5%                            | 2.1%  |  |
| T.T.<br>Pasteurised<br>(School) | 27              | 27             | 27    | 1007           | Jun -u | ode since                       | - T   |  |
| Pasteurised                     | 119             | 110            | 114   | 9              | 5      | 7.5%                            | 4.2%  |  |
| Pasteurised<br>(School)         | 26              | 26             | 25    | -              | 1      | -                               | 3.8%  |  |
| TOTAL                           | 317             | 249            | 256   | 15             | . 8    | 4.7%                            | 2.5%  |  |

All the samples taken were not submitted to both the Methylene Blue and Phosphatase Tests as in some instances the overnight atmospheric shade temperature exceeded 65°F.

## MILK OTHER THAN HEAT TREATED.

| DESIGNATION.      | No. of<br>Samples. | PASSED.<br>Meth.<br>Blue. | FAILED.<br>Meth.<br>Blue. | Unsatis-<br>factory<br>Samples<br>Percentage. |
|-------------------|--------------------|---------------------------|---------------------------|---|
| Tuberculin Tested | 101                | 68                        | 33                        | 32%   |
| Accredited        | 23                 | 9                         | 14                        | 60%   |
| Undesignated      | 12                 | 6                         | 6                         | 50%   |
| TOTALS            | 136                | 83                        | 53                        | 39%   |

Of the number of unsatisfactory samples of unpasteurised milks, 43 were from 4 producers whose place of production was outside the City. Notification of these results and requests for investigation were made to the County Milk Production Officer.

# Examination for Tubercle Bacilli.

Thirty-one samples of milk were submitted for biological examination. None was positive.

The yearly quantities of milk dealt with and sold in the City are as follows:

|                |       | Dealt With.<br>Gallons.                      | Sold.<br>Gallons. |
|----------------|-------|--|-------------------|
| Tuberculin Tes |       | <br>2,358,801                                | <br>127,076       |
| T.T. (Pasteuri | sed)  | <br>689,128                                  | <br>122,554       |
| Pasteurised    |       | <br>2,941,842                                | <br>1,435,513     |
| Undesignated   |       | <br>9,439,268                                | <br>2,392         |
|                | TOTAL | 15,429,039                                   | <br>1,687,535     |
|                |       | And in concession of the lateral property of |                   |

61,250 gallons of Pasteurised Milk included in the above are supplied to Schools and School Canteens.

92.3% of all milk consumed is Heat Treated.

### INSPECTION OF FOOD PREMISES.

During the year 227 inspections were made of meat shops, 259 of food preparing premises, 459 of general food premises, and 73 of bakehouses.

Three hundred and fifty-eight informal notices were served and 135 complied with. Two formal notices served were both complied with.

In approaching the problem of raising the standard of hygiene in food handling, it was decided to start a campaign from the very rock bottom. Staffs of the School Meals Service and industrial canteens were given talks and film displays dealing with the various aspects of their work. The local food traders' organisations were approached and arrangements made for members of the staff of this Department to give lectures and talks in which was explained the growing public demand for better food handling, the modern techniques to be employed, the equipment now available and the standard that would be expected of them when the systematic inspection of their premises commenced in the fairly near future. Contact was established with the specialist firms of shopfitters, refrigeration and cooking equipment so that recommendations could be made of approved materials of which supplies were available.

Recommendations were made to other Departments of the Corporation having control of premises in which food handling takes place, and considerable improvements have been approved for the covered market, whilst the standard of cleanliness at the school canteens remains commendably high.

One unsatisfactory cafe was closed, and the sale of ice-cream from street barrows has ceased.

Towards the end of the year the systematic inspection of all food handling premises was commenced, and the results should begin to show early in 1952. One meat preparing room was re-constructed in what was virtually a derelict building, and is being used with considerable effect as a practical illustration to other butchers as to what can be done from a very humble beginning.

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| trans Course in Course   | Connect    |
| tions Coursed in Course  | Connect    |
| the Court in Court   | Connect    |
| the Course in Lauren   | Connect    |
| deticon Coursed in Contract  | Connect    |
| Notices Comed in Contract  | Connect    |
| Notices Coursed in Course  | Connect    |

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|-------------------|----|----------|---|-------|--|--------------------|--------------------|--|-----|--|--|------|------|--|-------------------|--|--|---------------------------------------|---|-------|------|
| Food              | 0  | -        | -   | 00    | 4  | 11                 |                    |  | -   |  | 01   |      |      |  |                   |  |  | -                                     |   | н     | 1=   |
| Other For         | -  | Dia Char | -   | 7     | -  | _                  |                    |  |     |  |  |      |      |  |                   |  |  |                                       |   |       | 0    |
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| -                 | -  | See      |   |       | _  |                    |                    |  |     |  |  | -    |      | _  |                   |  |  |                                       | _                                       |       | T    |
| t.<br>ens.        | 0  | -        |   | -     | -  |                    |                    | 1  | -   |  |  |      |      |  |                   |  | 1  |                                       | 1                                       |       | -    |
| Ritchens          | -  | 164      |   | _     | _  |                    |                    |  |     |  |  | _    | _    |  |                   |  |  |                                       | _                                       |       | Ti   |
| M                 | 02 | I        | 1   | 9     | 9  | ri                 |                    | 01   | **  |  | -  |      | -    |  |                   |  | 9  |                                       | 1                                       | 2     | 169  |
| -                 |    | I Ex     |   | _     | _  |                    |                    |  |     |  |  |      | _    | _  |                   |  | _  |                                       | _                                       |       | 1    |
| ket<br>ls.        | 0  | 1        |   |       |  |                    |                    |  |     |  | 01   |      | Til. |  |                   |  |  |                                       |   |       | 0    |
| Market<br>Stalls. | -  | Eq.      |   |       |  | -                  |                    |  |     |  |  |      | _    |  |                   |  | _  | _                                     | _                                       |       | İ    |
|                   | 00 | I        |   |       |  | -                  |                    |  |     |  | 00   |      |      |  |                   |  | -  |                                       |   |       | -    |
|                   |    | . 124    |   |       |  |                    |                    | 76   |     |  | 1  |      |      |  |                   |  |  |                                       |   |       | 1    |
| ers.              | 0  | I        | -   | P4 10 | 1-   | 04                 | -                  | -  | 00  |  | -  | -    | 00   |  | -                 |  | 00   |                                       | 10                                      | 00    | 1 45 |
| Butchers.         | -  | fig.     |   |       | _  | _                  |                    |  |     |  |  |      | -    | -  |                   | -  |  | -                                     |   |       | 11   |
| B                 | 90 | 1        | -   | 15    | 25   | -                  | 00                 | 00   | 333 |  | 18   | 0.1  | 6    |  | -                 |  | 21   | 0                                     | 27                                      | 17    | 184  |
|                   |    | Stu      |   |       | -  | _                  | -                  |  | -   | -  |  |      |      | -  | _                 | -  | -  | -                                     | -                                       |       | 1 2  |
| Fish.             | 0  | -1       |   |       |  |                    |                    |  |     |  | -  |      |      |  |                   |  | -  | _                                     |   |       | 1    |
| Fried             | -  | 1 24     |   |       | -  | _                  |                    |  | -   |  |  | _    |      | _  | -                 | _  | _  | -                                     |   | -     | 1    |
| Fr                | 00 | I        |   |       | -  |                    |                    | 7  | -   |  | н  |      |      | н  |                   |  |  | To the                                |   | 1     | 10   |
|                   |    | E        |   | -     | _  |                    | -                  |  |     | 1  |  |      | 1    |  |                   |  | 1  | _                                     | -                                       |       | +    |
| Bakehouses.       | C  | I        | -   |       | 61   |                    |                    |  |     | -  | , -  |      |      |  | -                 |  | 64   |                                       | 01                                      | 01    | 101  |
| skeh              |    | Dia .    | 100000  |       |  |                    |                    |  |     |  | -  | 1    |      | _  | -                 | _  | _  | -                                     | _                                       |       | 1    |
| B                 | 00 | I        | 1   | -     | 00   | W.                 |                    | н  | +   |  | 1-   |      |      |  |                   | H  | 61   |                                       | 20                                      | 01    | 26   |
|                   |    | Si       |   |       | -  |                    | _                  |  |     |  |  | -    |      | -  | -                 |  | _  | -                                     | _                                       |       | 1 2  |
| eam.              | C  | 1        |   |       | 1  |                    |                    |  | 26  |  | 20   |      |      | -  |                   | -  |  |                                       |   |       | 47   |
| Ioe-cream.        | 1  | E4       |   |       | _  |                    |                    |  | -   |  |  | _    | -    |  | -                 |  | -  | -                                     | _                                       | -     | _    |
| 1                 | 00 | ı        |   |       |  | -                  |                    |  | 56  |  | 50   |      | -    |  |                   | 100  |  |                                       |   |       | 16   |
| -                 |    | -        | Эe,   | : 0 : | : 3  | etc.,              | : 00               | hot  |     | 00   | _  | 9:00 |      | : 6  |                   | ď,   | 96   | : .5:                                 | : 5                                     | 8 :   | 4    |
|                   |    |          | 13 (a) Communication of sanitary convenience, dustbin, and odours penetrating therefrom | EEE   | etc. (f) Provision and maintenance of adequate | f refuse, "filth," | cleansing of floor | utensils, etc., by all persons  13 (i) Provision of wash-hand basin, soap, |     | Byelaws. Persons handling, wrapping delivering food. | Food protected from contamination (flies, dust, rodents) |      |      | Provision of adequate lighting for handling. | wrapping, of food | Persons carrying on trade of handling,<br>wrapping or delivering of food | (i) Provision of suitable receptacles for refuse | Cleansing of surfaces with which food | Fixture of notices requesting employees | hands |      |

I Number of Notices Served and Complied With.

Informal.

Statutory.

Complied.

Served.

Complied.

I—Informal.

F—Formal.

### MERCHANDISE MARKS ACT.

The suspension of the provisions of the various Orders made under the above Acts which has obtained since the beginning of the war were in the main removed during the early part of the year. The attention of shopkeepers is being drawn to this during the routine visits paid to food shops. Special attention is paid to greengrocers, for example, during the transition from imported to home-grown produce in the spring.

#### ICE-CREAM PREMISES.

There would appear to be a tendency for the smaller manufacturer of ice-cream to drop out of business in favour of the larger producer, and for the retailer to deal in the pre-packed article in preference to the bulked supply. On the whole this is a move in the right direction, for whilst it is not impossible for the more humble manufacturer to produce an article of first-class quality in every way, the greater resources of the larger organisations enable them to set up laboratories and employ technicians outside the capacity of the smaller concern. The itinerant dealer has disappeared from the streets of Carlisle. There has been a considerable increase in the manufacture of iced lollies, and anyone with a freezer, a quantity of flavouring and a water supply can produce this confection. Grave warnings have been expressed from time to time of the possible consequence which might arise from this industry over which there is so little control.

The following table indicates the number of ice-cream premises registered at December, 1951.

| Number of Wholesale Manufactor | arers 6  |
|--------------------------------|----------|
| Number of Manufacturing Reta   | ilers 19 |
| Number of Retail Vendors       | 126      |

In the case of retailers, 99 or 78% deal exclusively in the pre-packed article.

92 visits were made to premises concerned.

Details of samples taken during the year are as follows: -

#### BACTERIOLOGICAL RESULTS.

| No. of<br>Samples<br>of Ice- | Methyle | ne Blue. | В.   | Coli.  |    |    | of Hea |    |
|------------------------------|---------|----------|------|--------|----|----|--------|----|
| cream.                       | Sat.    | Unsat.   | Sat. | Unsat. | 1  | 2  | 3      | 4  |
| 101                          | 58      | 43       | 56   | 45     | 46 | 12 | 11     | 32 |

CHEMICAL ANALYSIS.

Twenty-five samples of ice-cream, 3 formal and 22 informal, were submitted to the Public Analyst. Of the informal samples, fifteen were certified as genuine, and seven as having fat content below the minimum standard. Two formal samples were found to be genuine and one below the minimum in fat content.

The fat content varied from 1.13% to 11.61%, the average being 6.35%.

# INSPECTION OF OTHER FOODS.

The following table shows the amount of food declared to be unfit for human consumption during 1951.

| IIII TOI HOILIGHT      |    | No. |    |       |    |    |       |     |
|------------------------|----|-----|----|-------|----|----|-------|-----|
|                        | T. | C.  | Q. | lbs.  | T. | C. | Q. 11 | os. |
| Meat and Meat Products | _  | 4   | 2  | 16    |    |    |       |     |
| Fish and Poultry       |    | 6   | _  | 2     |    |    |       |     |
| Canned Meat            | 1  | 14  | 3  | 7     |    |    |       |     |
| Flour and Cereals      |    | 8   | 1  | 23    |    |    |       |     |
| Vegetables             | 2  | 15  | 3  | -     |    |    |       |     |
| Miscellaneous          | 1  | 17  | 1  | 2     |    |    |       |     |
| TOTAL                  |    |     |    | 15 10 | 7  | 6  | 3     | 22  |

Other Canned Foods: 4,001 cans.

#### MEAT INSPECTION.

The following tables give the number of animals killed annually during the past three years:—

### PUBLIC ABATTOIR.

| Year. | Cattle. | Sheep and<br>Lambs. | Calves. | Pigs. | Total. |
|-------|---------|---------------------|---------|-------|--------|
| 1949  | 3,983   | 17,573              | 2,456   | 187   | 24,199 |
| 1950  | 5,060   | 17,282              | 3,106   | 398   | 25,846 |
| 1951  | 5,600   | 14,954              | 2,332   | 904   | 23,790 |

## HARRABY BACON FACTORY.

| 1051 | 1949<br>1950                            | - | - | - | 88,053            | 88,053            |
|------|---|---|---|---|-------------------|-------------------|
|      | 100000000000000000000000000000000000000 |   |   |   | 98,479<br>104,120 | 98,479<br>104,120 |

Amount of Imported Meat received at W.M.S.A. Depot at the Abattoir during 1951:—

|        | Quarters | Carcases of | Carcases  | Boxes and |         | Bags  |
|--------|----------|-------------|-----------|-----------|---------|-------|
| Meat   | of       | Mutton and  | of        | Bags of   |         | of    |
| Cases. | Beef.    | Lamb.       | Pork.     | Offal.    | Calves. | Meat. |
| 2,881  | 2,371    | 16,933      | 917 sides | 820       | 5       | 220   |

Number of carcases examined at the Abattoir requiring special attention: 2672, of which number 750 were affected with tuberculosis in varying degree.

Fifteen cases were suspected to be affected with localised cysticercus bovis. These carcases were subjected to cold storage treatment under the direction of the Ministry of Food after the infected organs had been condemned as being unfit for human consumption.

PUBLIC SLAUGHTERHOUSES.

Carcases Inspected including those Condemned.

|  | pecreu inc             |       |           |                        |       |
|--|------------------------|-------|-----------|------------------------|-------|
| The same of the  | Cattle excluding Cows. | Cows. | Calves.   | Sheep<br>and<br>Lambs. | Pigs. |
| Number killed  | 3173                   | 2427  | 2332      | 14954                  | 904   |
| Number inspected   | 3173                   | 2427  | 2332      | 14954                  | 904   |
| ALL DISEASES EXCEPT TUBERCULOSIS.  |                        |       |           |                        |       |
| Whole carcases con-<br>demned  | 28                     | 109   | 368       | 196                    | 12    |
| Carcase of which some part or organ was condemned                                | 1474                   | 1760  | 16        | 1855                   | 184   |
| Percentage of the number inspected affected with disease other than tuberculosis | 47.3                   | 76.5  | 16.4      | 13.7                   | 21.6  |
| TUBERCULOSIS ONLY.   |                        |       | LOUIS CO. |                        |       |
| Whole carcase con-<br>demned   | 16                     | 50    | 6         |                        | 2     |
| Carcase of which some part or organ was condemned                                | 202                    | 421   | -         | -                      | 46    |
| Percentage of the num-<br>ber inspected affected<br>with tuberculosis            | 6.8                    | 19.4  | .25       | -                      | 5.3   |

Table showing number of Carcases and Part Carcases condemned for diseases other than Tuberculosis.

|  |         |        | Un    | fit fo | or F    | ood.         |        |        |
|--|---------|--------|-------|--------|---------|--------------|--------|--------|
| Served and state parted to let   | Wh      | ole (  | Carc  | ases.  | Pa      | rt C         | arca   | ses.   |
| OR OR COMPUTION  |         |        |       |        | 100     |              |        |        |
| DISEASE OR CONDITION   | Cattle. | Sheep. |       | Calves | Cattle. | Sheep.       |        | Calves |
| TEST TOTAL STATE OF THE PARTY O | att     | he     | 20    | rlv    | rtt     | nec          | 200    | alv    |
| the state of the s | Ö       | 00     | Pigs. | S      | Ö       | 00           | Pigs.  | Ö      |
|  |         |        |       |        |         |              |        |        |
| Abscesses and Suppurative  |         |        |       | 1/4    |         |              |        |        |
| Conditions   | 4       | 1      | -     | -      | 6       | 12           | 2      | 1      |
| Actinomycosis  | 2       | -      | -     | -      | 3       | -            | -      | -      |
| Arthritis, Atrophy   | 3       | 15.    | 3     | -      | 3       | 43           | 9      | -      |
| Cancer   | -       | 1      | -     | 1      | -       |              | -      |        |
| Enteritis  | 1       | -      | -     | 2      | -       | -            | -      | TE     |
| Emaciation   | 35      | 25     | 1     | -      | 12      | -            | -      | 5      |
| Extensive Injuries   | 8       | 12     | -     | -      | 138     |              | all of | -      |
| Fevered and Ill-Set  | 11      | 22     | -     | 5      | -       | -1           |        |        |
| Gangrene   | 2       | 4      | -     | 100    | -       | -            | -      | 7      |
| Immaturity   | -       |        | -     | 123    | 1       | 1            | 1      | -      |
| Inflammatory diseases:   | ,       | 7      | 1     | 7      | 6       | 30           | 1      |        |
| Pneumonia, Pleurisy, etc.  | 1 0     | 7      |       | 9      | 0       |              | 1      |        |
| Jaundice Johne's Disease   | 19      | -      | -     | 9      | -       |              |        | -      |
| Malnutnition   | 12      | 30     | 3     | 180    |         |              |        |        |
| Mactitic   | 12      | 30     | -0    | 100    | 10      | 5            | 4      |        |
| Manihund   | 3       | 10     |       | 2      | 10      | _            | _      |        |
| Nonhritie  |         | 1      | _     | 2      |         | _            |        |        |
| Oedema   | 14      | 35     |       | 9      | 4       | 13           |        |        |
| Parasitic Mange  | -       | _      | -     | 1      | _       | _            | _      |        |
| Post-mortem putrefaction   | 1       | 25     | _     | -      | _       | 3            | 1      | _      |
| Pyaemia, Joint Ill, Navel Ill  | _       | _      | 1     | 23     | -       | _            | -      | _      |
| Sapraemia  | 2       | -      | -     | _      | -       | -            | -      | _      |
| Septic Pericarditis  | 5       | -      | -     |        | -       | -            |        | -      |
| Septic Metritis  | 3       | 1      | -     | -      | -       | -            | -      | -      |
| Septic Peritonitis   | 7       | 4      | 2     | 1      | -       | -            | -      | -      |
| Septicaemia  | 1       | -      | -     | -      |         | -            | -      | -      |
| Traumatic Pericarditis   | 1       | -      | -     | 1      | -       | -            | -      | -      |
| Toxaemia   | -       | 3      | -     | -      | -       | -            | -      | -      |
| Uraemia<br>Urticaria   | -       | -      | 1     | -      | -       | -            | -      | -      |
| White Scour  | -       | -      | -     | -      | -       | -            | 1      | -      |
| white Scour  |         |        | -     | 2      | -       | -            | -      | -      |
| Whole Carcases   | 197     | 100    | 10    | 200    |         | The Party of |        | 10-11  |
| Part Carcases  | 137     | 196    | 12    | 368    |         |              |        | 1000   |
| rart Carcases  |         |        |       |        | 182     | 107          | 18     | 6      |

# DISEASED AND UNSOUND FOOD

The following table shows the amount of food declared to be unfit for human consumption during 1951.

# PUBLIC SLAUGHTERHOUSES.

|              |       | T.  | C.    | Qrs. | lbs. |    |    |    |      |
|--------------|-------|-----|-------|------|------|----|----|----|------|
| Beef         |       | 38  | 7     | _    | 1    |    |    |    |      |
| " Offals     |       | 39  | 17    | 3    | 6    |    |    |    |      |
| Mutton       |       | 3   | 16    | 1    | 1    |    |    |    |      |
| ,, Offals    | s     | 2   | 14    | -    | 13   |    |    |    |      |
| Veal         |       | 5   | 16    | -    | 4    |    |    |    |      |
| ,, Offals    |       | 2   | 7     | -    | 26   |    |    |    |      |
| Pork         |       | 1   | 2     | 1    | 25   |    |    |    |      |
| ,, Offals    |       | _   | 10    | 2    | 10   |    |    |    |      |
| Imported Mea | ıt    | -   | -     | 2    | 13   |    |    |    |      |
| . ,, Offals  | s     | -   | _     | -    | _    |    |    |    |      |
| Corned Beef  |       | -   | 1     | 2    | 7    | T. | C. | Q. | lbs. |
|              |       | -   |       |      | -    | 94 | 13 | 2  | 22   |
| HARRABY BA   | CON I | FAC | TORY. |      |      |    |    |    |      |
| Pork         |       | 9   | 13    | 1    | 7    |    |    |    |      |
| Offals       |       | 8   | 11    | -    |      |    |    |    |      |
|              |       | _   |       |      |      | 18 | 4  | 1  | 7    |

#### Tuberculosis Order.

One cow and 4 heifers notified by Veterinary Officers of the Ministry of Agriculture and Fisheries under the provisions of the Order were slaughtered at the Public Abattoir.

One was found to be affected with localised tuberculosis and portions of the offal and carcase were condemned. In 4 cases the disease was found to be generalised and the carcases and offal condemned as unfit for human consumption.

#### FOOD AND DRUGS ACT-ADULTERATION.

During the year 60 formal and 48 informal samples of foods and drugs, purchased under the provisions of the Food and Drugs Act, 1938, were submitted to the Public Analyst.

Table 30 shows the number and results of the analyses of samples obtained.

Table 31 shows the average composition of milk examined during the year.

Table 32 shows the action taken in respect of samples reported by the Public Analyst as not being genuine or otherwise irregular.

TABLE 30

| To the latest            | No. of  | Samples.  | No. G   | enuine.   | No. Adulterated. |              |  |
|--------------------------|---------|-----------|---------|-----------|------------------|--------------|--|
| ARTICLES.                | Formal. | Informal. | Formal. | Informal. | Formal.          | Informal.    |  |
| Aspirin                  | _       | 1         | -       | . 1       | -                | -            |  |
| Castor Oil               | -       | 1         | -       | 1         | _                | 100          |  |
| Coffee Essence           | -       | 1         |         | 1         | _                | -            |  |
| Condiments,              |         |           |         |           |                  |              |  |
| Colourings,              |         |           |         | -         |                  |              |  |
| Flavourings,             |         | 6         |         | 6         | - COMPA          |              |  |
| etc                      | _       | 6 2       |         | 6         |                  | 100          |  |
| Gelatine                 | 3       | 22        | 2       | 2<br>15   | 1                | 7            |  |
| Ice Cream<br>Meat & Fish | 3       | 22        | 2       | 10        |                  |              |  |
| Products                 | 4       | 1         | 4       | 1         | - 4-97           | -            |  |
| Milk                     | 34      | _         | 30      | _         | 4                | -            |  |
| Miscellaneous            | _       | 5         |         | 5         | _                | -            |  |
| Patent Flour             |         |           |         |           |                  |              |  |
| Mixtures                 | -       | 3         | -       | 3         | -                | -            |  |
| Quinine                  | -       | 1         |         | 1         |                  | -            |  |
| Sausage                  | 16      | -         | 13      | - T       | 3                |              |  |
| Seidlitz                 |         | 1         |         | ,         |                  | and a second |  |
| Powder<br>Sugar Con-     |         | 1         |         | 1         | 100              | - 100        |  |
| fectionery               |         | 4         |         | 4         | _                |              |  |
| - Idealonery             |         |           |         |           |                  |              |  |
|                          |         |           |         |           |                  |              |  |
| TOTALS                   | 57      | 48        | 49      | 41        | 8                | 7            |  |
|                          |         |           |         |           | 10 mm d          |              |  |

TABLE 31

Average Percentage Composition of Milk examined during the year.

| PERIOD.                            | No. of Samples. | Milk Fat | Solids not<br>Fat % |  |
|------------------------------------|-----------------|----------|---------------------|--|
| 1st Quarter                        | 7               | 3.58%    | 8.46%               |  |
| 2nd Quarter                        | 10              | 3.20%    | 9.92%               |  |
| 3rd Quarter                        | 12              | 3.52%    | 8.75%               |  |
| 4th Quarter                        | 5               | 3.90%    | 9.06%               |  |
| Year ending 31st<br>December, 1951 | 34              | 3.49%    | 8.77%               |  |

# TABLE 32

Action taken in respect of samples reported by the Public Analyst not to be genuine or otherwise irregular.

| Pork   Deficient of 2.4%   Reported Committee letter set     16   Beef   Sausage   Deficient of 16.8% of its   Reported Committee letter set     29   Milk   Deficient of 6.7%   Further taken. F     35   Milk   Deficient of 2.4%   Reported Committee letter set     16   Beef   Sausage   Deficient of 16.8% of its     16   Beef   Deficient of 16.8% of its     17   Deficient of 2.4%   Reported Committee letter set     18   Reported Committee letter set     19   Reported Committee letter set     10   Reported Committee letter set     11   Reported Committee letter set     12   Reported Committee letter set     13   Reported Committee letter set     14   Reported Committee letter set     15   Reported Committee letter set     16   Reported Committee letter set     17   Reported Committee letter set     18   Reported Committee letter set     19   Reported Committee letter set     10   Reported Committee letter set     11   Reported Committee letter set     12   Reported Committee letter set     13   Reported Committee letter set     14   Reported Committee letter set     15   Reported Committee letter set     16   Reported Committee letter set     17   Reported Committee letter set     18   Reported Committee letter set     19   Reported Committee letter set     19   Reported Committee letter set     10   Reported Committee lett | d to Health tee. Warning nt to vendor. d to Health tee. Warning nt to vendor. sample No. 36 Yound genuine. to Cow '' No. 48 taken. t of 19% of Reported to Committee. |
|--|---|
| Sausage of its Meat.  Beef Sausage Deficient of 16.8% of its Meat.  Meat.  Deficient of 6.7% Further taken. F  Milk Deficient of 21.7% of its Fat.  Milk Deficient of 21.7% of its Fat.  | tee. Warning nt to vendor. d to Health tee. Warning nt to vendor. sample No. 36 Yound genuine. d to Cow '' No. 48 taken. t of 19% of Reported to Committee.           |
| Sausage  Milk  Deficient of 6.7% of its Fat.  Deficient of 21.7% of its Fat.  Sample I Deficient its Fat.  | tee. Warning nt to vendor. sample No. 36 Yound genuine. I to Cow '' No. 48 taken. t of 19% of Reported to Committee.  |
| of its Fat. Deficient of 21.7% of its Fat. Sample I Deficient its Fat.   | Yound genuine. I to Cow '' No. 48 taken. It of 19% of Reported to Committee.  |
| Milk Deficient of 21.7% of its Fat. Sample I Deficient its Fat.  | No. 48 taken.<br>t of 19% of<br>Reported to<br>Committee.   |
|  |   |
| Ice-cream Deficient of 11% Reported of its Fat. Committee  | tee. Warning nt to vendor.  |
| 18.4% of its Fat. Committ  | d to Health<br>tee. Warning<br>nt to vendor.  |
| 19.2% of its Fat. Committ  | d to Health<br>tee. Warning<br>nt to vendor.  |
| 24.6% of its Fat. Committ  | d to Health<br>tee. Warning<br>nt to vendor.  |
| 39.2% of its Fat. Committ  | d to Health<br>tee. Warning<br>ent to vendor.   |
| 48 Milk Deficient of 19% See Sam of its Fat. above. R  | ple No. 35<br>Referred to<br>Milk Produc-   |
| of its Fat.   Committ  | d to Health<br>tee. See<br>Sample No.   |
| 19.6% of its Fat. Committ  | d to Health<br>tee. Warning<br>nt to vendor.  |
| Sausage of its Meat. and conv  | prosecuted victed. Fine nd costs.   |
| fatty solids. Con- "Appeal   | to Cow ''   |
| tained not less sample N   | No. 100 taken.<br>orted to be   |
|  | prosecuted<br>victed. Fine<br>ad 5 gns.   |



STEWY Y

