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Contributors

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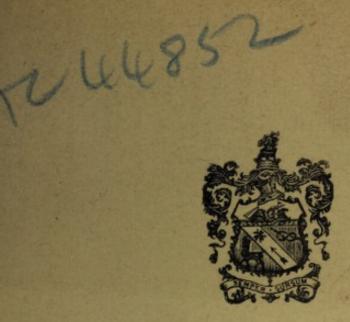
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COUNTY BOROUGH

OF

BARROW-IN-FURNESS.

Medical Officer's Report,



COUNTY BOROUGH OF BARROW-IN-FURNESS. PUBLIC HEALTH DEPARTMENT.

ANNUAL REPORT OF THE MEDICAL OFFICER OF HEALTH. 1945.

TO THE CHAIRMAN AND MEMBERS OF THE HEALTH COMMITTEE.

Ladies and Gentlemen,

I have the honour to present my Annual Report on the health of the Borough for the year 1945. Although it is not possible to prepare the report on pre-war lines, some information has been re-introduced which was prohibited during the period of hostilities.

The health of the community generally can be regarded as good and the only outbreak of infection which requires special comment was the outbreak of Paratyphoid B. Fever which occurred in August and persisted intermittently until November. This outbreak is dealt with more fully in the body of the Report.

According to the estimate of population furn'shed by the Registrar-General, the population figure rose by 2,300 to 66,690. There was a decrease of 38 registered births as compared with 1944. The number registered being 1,284, giving a birth rate of 19.2 per 1,000 population. The number of deaths registered was 839—an increase over 1944 of 48—giving a death rate of 12.5 per 1,000 population. The infant mortality rate fell from 60.51 to 58.4 per 1,000 births. There were 5 maternal deaths against 8 the previous year, producing a maternal mortality rate of 3.8 compared with 6.0 for 1944.

Cancer deaths fell from 117 to 109 with a consequent variation in the death rate due to this cause of 1.63 compared with 1.8. Deaths from Pulmonary Tuberculosis fell from 45 to 37 and, although this is not the lowest figure on record for the Borough, it is one of the lowest. The death rate for this disease is 0.55 per 1,000 population.

I wish to record my appreciation of the loyal help and co-operation of the medical, hospital, inspectorial, nursing and clerical staffs, by whose efforts the work of the Department has been carried out in an efficient and practical manner.

My thanks are due to the Members of the Council, the Chairman and Members of the Health Committee and the Maternity and Child Welfare Sub-Committee, and the Chief Officials for the help and support which has been accorded to me during the year.

I have the honour to be,

Ladies and Gentlemen,

Your obedient servant,

A. ROBB FORREST,

Medical Officer of Health.

STAFF.

The following staff is employed or	n the work of Public Health in the
Borough:—	the work of Lubic Health in the
Medical Officer of Health, Tuberculosis	
Officer and Port Medical Officer	A. R. Forrest, M.D., D.P.H.
Deputy Medical Officer of Health, Assis-	
tant Tuberculosis Officer and Assis-	
tant Port Medical Officer	J. A. Guy, M.D., D.P.H. (In H.M. Forces).
Assistant Medical Officer in charge of	
Maternity and Child Welfare Work	D. O. C. C. W.D. Ch.D.
Assistant Medical Officer and Assistant	Dorothy G. Stewart, M.B., Ch.B.
	G. G. Dickie, M.B., Ch.B., D.P.H.
Solidor Industrial Chicor III.	(In H.M. Forces).
do	F. Klopstock, M.D. (Temporary).
do	Mary B. McCulloch, M.B., Ch.B.
	(Temporary).
Obstetric Officer	G. Stoneham, M.B., Ch.B.,
	M.R.C.O.G.
Public Vaccinator	J. W. Magill, L.R.C.P., L.R.C.S. Ed., L.R.F.P.S. Glas.
Chief Sanitary Inspector	J. Shanks, Cert. R.S.I. & Joint Board. Cert. R.S.I. (Meat &
	Food Inspection). Cert. R.S.I.
	(Smoke Inspection).
Assistant Chief Sanitary Inspector	T. E. Pollock, Cert. R.S.I., Cert.
	R.S.I. (Meat and Food In-
Sanitary Inspector for Meat Inspection	spection).
Santary Inspector for Meat Inspection	Board, Cert. R.S.I. (Meat and
	Food Inspection).
Senior Housing Inspector	G. Thompson, Cert. R.S.I. and
	Joint Board.
District Sanitary Inspectors	E. Adams, Cert. R.S.I. (until March, 1945).
	S. Thompson, Cert. R.S.I. & Joint
	Board, Cert. R.S.I. (Meat and
	Food Inspection).
	G. S. Morris, Cert. R.S.I. and Joint
	Board. (until April, 1945).

Rodent Officer H. Williams.										
Trainee Sanitary Inspectors J. J. O'Neill.										
A. Rodgers (from 10/12/45).										
Health Visitors Mrs. B. Kevany, S.R.N., S.C.M.										
Miss E. Cunliffe, S.R.N., S.C.M. Miss K. Imeson, S.R.N., S.C.M.										
Miss M. K. Burns, S.R.N., S.C.M.										
Miss E. M. Harper, S.R.N., S.C.M.										
Tuberculosis Health Visitor					A COLUMN TO					
Matron of Fever & Tuberculosis Hospi										
Matron of Maternity Hospital										
Chief Clerk										
THE AT COLUMN	OT CA				es (a)	ppor	nted	1/4/45).		
VITAL STAT								00 000		
Population—Mid 1945								66,690		
No. of deaths								839 12.5		
Death Rate								12.5		
No. of Births Registered—Legitimate										
Illegitimat	е	1	****				78	1284		
No of Chillbinths								28		
No. of Stillbirths						****	34444	19.2		
								60.7		
Illegitimate Births per 1,000 births			****			****				
Infant Mortality per 1,000 births										
Illegitimate Infant Mortality Rate Legitimate Infant Mortality Rate	****	****				****	****	57.2		
No. of live births notified		****					****	1230		
No. of Maternal Deaths	****			****			****	5		
Rate per 1,000 births				****		****		3.8		
Percentage of live births notified						****		93.9		
Zymotic Death Rate	****	****			****	****	****	0.13		
Diphtheria	****				****			nil.		
Enteritis				****	****		****	0.13		
· Measles		****				****		nil.		
Scarlet Fever							****	nil.		
Whooping Cough			****			****		nil.		
Enteric								nil.		
Phthisis	****							0.55		
Other Tubercular Diseases								0.19		
Cancer								1.63		
Organic Heart Disease							****	2.65		
Bronchitis								0.2		
Pneumonia						,		0.68		
Influenza					****			0.03		

TUBERCULOSIS.

The increase in the number of notified cases of Pulmonary Tuberculosis was maintained during the past year as shown in the following table:—

Year	1945.	1944.	1943.
Pulmonary cases	70	69	58
Non-pulmonary cases	13	19	27
Deaths, Pulmonary	. 37	45	31
Death Rate	0.55	0.69	0.48

CLINICS.

Clinics are held at the Corporation Dispensary, 64, School Street, as follows:—

Males				Monday, 2-0 p.m.
Females				Wednesday, 2-0 p.m.
Children	 			Friday, 2-0 p.m.

An evening clinic is held on the second Friday of the month, at 6-0 p.m., to enable patients who are at work to attend without loss of working time. Recently it has been found necessary to hold an additional clinic on Wednesday mornings at 10-30.

Domiciliary visits are carried out by the Tuberculosis Nurse and the Clinical Tuberculosis Officer in charge of the Dispensary. The latter devotes one afternoon per week to this occupation. It is the object of domiciliary visits and clinic work to see every notified case at regular intervals so that advice may be given where necessary and institutional treatment arranged for in unsatisfactory cases.

CLERK.

The part-time use of a clerk in the Dispensary has been greatly appreciated. The increase of work in the Dispensary has been encroaching on the visiting time of the nurse, and the help of a clerk has enabled this to be rectified.

FINANCIAL ASSISTANCE.

Under Memo. 266/T. financial assistance continues to be given to suitable cases as shown in the table below:—

Maintenance		Discretionar	*		ecial					
	Allow	anc	es.	Allowance	S.	Payn	nents.	To	tal.	
	£	s.	d.	£ 0.	d.	£	s. d.	£	s. d.	
1944	1813	7	10	64 13	4	8	10 6	1886	11 8	
1945	1857	0	5	67 0 1	1	12	8 0	1936	9 4	

No. of patients who received payment during 1945:— Males—46; Females—3. Total—49.

HOSPITALS.

Full use has been made of Devonshire Road Hospital (16 beds) and Meathop Sanatorium (14 beds) during the past year. The former is used for advanced cases and also where a patient is waiting a bed in Meathop Sanatorium, and it is desirable to commence sanatorium treatment as soon as possible. The cubicle arrangement of the hospital makes this quite feasible.

NON-PULMONARY CASES.

The disposal of non-pulmonary cases remains the same as last year. Cases of bone and joint tuberculosis are sent to the Robert Jones and Agnes Hunt Orthopædic Hospital at Oswestry. Cases of skin tuberculosis are referred to the Manchester and Salford Hospital for Skin Diseases, whilst cases of cervical and abdominal tuberculous adenitis are sent to the North Lonsdale Hospital.

GENERAL.

The interchange of information and help continues with the Medical Officer at Messrs. Vickers-Armstrongs Limited.

During domiciliary visiting it has been noticed that an increased number of cases of children live in the same room with open cases of tuberculosis. In these cases efforts have been made to improve the conditions by re-housing, and, where this was not possible, by advice. This problem seems far from solution until the new housing programme gets under way.

The position with regard to X-Ray plant is still far from satisfactory, and the practice continues of referring patients to the North Lonsdale Hospital for an X-Ray and screening. The absence of an X-Ray unit often necessitates a delay in giving a final diagnosis and prevents any attempt at commencing or maintaining Artificial Pneumothorax, a recognised and valuable means of treatment now widely employed. Cases requiring this form of treatment are referred to Meathop Sanatorium. The very few cases who are found suitable for Thoracoplasty are admitted to High Carley Sanatorium with the kind permission of Lancashire County Council.

MATERNITY AND CHILD WELFARE.

(a) RISEDALE MATERNITY HOSPITAL.

The Municipal Maternity Hospital of 28 beds is still inadequate for the number of cases requiring institutional confinements. The number of deliveries was again over 500 for the year. The bookings have been so heavy that the beds are booked for seven months in advance. The scheme in operation is to accept normal bookings up to 30 per month and an additional 10 beds kept for medical emergencies and bad home conditions.

The scheme for the erection of a temporary building has been discontinued owing to the difficulties encountered during war time in obtaining labour and materials for building. The Council purchased a large houseNo. 1, Prospect Road—adjoining the Hospital, which had been badly damaged by enemy action, and had it repaired. This house will provide an additional six beds for patients, a babies' nursery and staff accommodation. The emergency Maternity Home at Arnside is still in operation and has accommodation for ten patients. The Home ceased to operate under the Evacuation Scheme, but the Council was still able to obtain accommodation on a per capita basis.

The Clinics have been well attended and there has been an increase in the number of women attending the Post-Natal Clinic, though it would be gratifying to see still more women availing themselves of the opportunities. The Birth Control Clinic, which has been brought up to date, has proved of very great help in genuine cases requiring guidance, but there have also been a large number of women coming to the Endocrine Clinic seeking advice with regard to sterility.

There were four cases of Eclampsia during the year, and three of these patients were delivered of living infants.

There were, unfortunately, three maternal deaths. All of these patients had attended the Clinic, but their deaths were due to unavoidable complications. There were again seven patients requiring blood transfusions, mostly emergencies, and the fact that there is now always two pints of blood in store in the Hospital ready for such emergencies in a great asset, and has been responsible for saving at least one life.

It is very interesting to note that the incidence of stillbirths is reduced, though there has been a bigger number of feetal abnormalities which had caused a rise in the number of neonatal deaths.

The premature babies have done very well. There were 38 premature infants born during the year, and in 22 cases the reason for the premature labour was obvious. 14 of these babies died, and, as is shown in the report, there was a definite cause for the death of the child in all cases.

Of the 24 who lived, two were under $3\frac{1}{2}$ lbs. in weight, and six under 4 lbs. Several of the premature infants went home fully breast fed. There is now a service whereby premature babies born on the district can be brought into Hospital. Special cradle baskets have been provided for the purpose of transporting the infant. This service would be greatly improved if the mothers could be admitted with the infants because of the value of breast milk in the feeding of a premature baby.

Number of beds available	 ****	Sec	 	****	 	28
Total admissions	 	 ****	 	****	 	589
Number of Deliveries						508
Number of ante-natal pa						170
Cases delivered by Midv						455

Cases delivered by Doctors								53
(a) Obstetrician								
(b) General Practitione								
Cases in which medical aid								132
(a) Obstetrician							****	102
(b) General Practitione								
Maternal Deaths								0
Infantile Deaths—	****		*****			****		3
(a) Stillbirths (b) Neopotal deaths								
(b) Neonatal deaths								
(c) Babies admitted fro	m dist	rict	****	****		5		
Clinics—								
Ante-Natal:								
Number of individuals a								
Total attendances				****	4	1636		
Post-Natal, Gynæcological a								
Number of individuals a								
Total attendances				****	****	858		
(a) Post-natal				25	9			
(b) Gynæcological				11	8			
(c) Endocrine				3	1			
(d) Birth Control				3	4			
Normal Deliveries								450
Obstetrician.			neral	Pract	tition	ners.	****	400
255	L.O.A			38				
128	R.O.	A.		17				
8	P.O.I	·.		1				
2	B.B.A	١.		_				
1	Precip	pitate		-				
				-				
394				56				
				-				
						****		17
Obstetrician						14		
General Practitioner	rs					3		
Twin Deliveries								10
				*****		7		
General Practitioners						3		
Forceps Delivieries							la const	39
								00

Obstetrician.	Indication.			Gen	eral	l Practitioners.		
8	Delayed	2nd s	tage			12		
4	Deep tra	nsver	se ar	rest		1		
_	Non-co-			-				
	patien							
_	Unstated							
3	P.O.P.					1		
-	Materna	l distr	ess		****	2		
_						-		
15						24		
_						-		
Perforation for Hydrocephalus								2
Manual Removal of Placenta						-		3
Obstetrician					****	3		
Blood Transfusion							****	7
Indications—								
Placenta Prævia						2		
P.P.H. due to Atonic Ut					****	3		
P.P.H. due to Retained						1		
Microcytic Anaemia						1		
Abnormal Presentations								4
Face					****	2		
Prolapsed Cord and Fac	e					1		
Brow					****	1		
Fœtal Abnormalities						12		
Hare Lip and Cleft Pala	te					2		
Anencephaly						1		
Hydrocephalus and Spin	a Bifida					3		. *
Spina Bifida						5		
Mongol						. 1		
Complications of Pregnancy: De	livered in	n Hos	pital	_				
Hydramnios						3		
Treated with Artificial I	Rupture	of Mer	m-					
branes				1				
Carditis						1		
						4		
Pulmonary Tuberculosis				4				
Pre-Eclampsia and Chronic Ne	phritis					27		

Hæmor	rrhage after 28 weeks	3		****		****	****		20		
	Ante-Partum		***				14				
	Toxic Accidental					3					
	Non-Toxic Acciden	ntal				2					
	Incidental		****			6					
	Placenta Prævia			****		3					
	Post-Partum						6				
	Retained Placenta		****			2					
	Atonic					4	*				
Hæmo	rrhage in early pregn	ancy	y						10		
	Threatened Abortion	1				6					
	Complete Abortion		****		****	3					
?	Ectopic					1					
Induct	ion of Labour (Surgi	cal)		-							17
Indi	cations—										
	Eclampsia								1		
	Pre-Eclampsia						****	****	10		
	Hydramnios —			*****	****				1		
	Chronic Nephritis				****		*	****	2		
	Ante-Partum Hæmo								2		
	Acute Retention of	Urin	е	2					1		
Sterilizat	ion following normal								****	****	1
	Indication-Mitral										
Cæsarian	Section								****		1
	Indication-Disprop										
	There was a trial lal			his c	ase.						
Discharg	ed Undelivered					*					28
	Not in labour										
	Version as in-patient										
	Examination under	anæ	sthet	tic					2		
Complica	ations of Pregnancy:	tre	ated	and	disc	harg	ed u	ndeli	vere	d	42
	Renal Functions								1		
	Threatened Miscarri	age							6		
	Pyelitis								7		
	Hyperemesis								1		
	Pre-Eclampsia								19		
	Chorea								2		
	General Debility								4		
	Rheumatism								- 1		
	Phlebitis							-	1		
Materna	l Deaths										-3
	Ruptured Uterus							-	1		
	Exhaustion, puerper				ralvi	ic ile	eus	****	1		
	Obstetric Shock			-					1		
		4400	0.000	2000	19959	4000	44.1	00.00			

Infants—	
Number of infants born alive 510	
Premature Infants 38	
(of these 14 died—see below).	
Stillbirths	8
Anencephalic 1	
Macerated 3	
A.P.H 2	
Hydrocephalus and Spina Bifida 2	
Neonatal Deaths	22
Causes—	
Spina Bifida 5	
Hydrocephalus and Spina Bifida 2	
Cerebral Hæmorrhage 1	
Prematurity associated with Maternal Eclampsia 1	
Prematurity associated with Maternal Pyelitis 1	
Prematurity associated with Maternal A.P.H. 2	
Prematurity associated with Congenital Heart 3	
Prematurity under 2½ lbs 3	
Prematurity non-viable (but lived) 2	
Prematurity and anæmia 1	
Prematurity and marasmus 1	
Premature babies which lived	24
Prematurity associated with Maternal Eclampsia 1	
,, , ,, ,, Pre- ,, 9	
,, ,, ,, A.P.H 1	
,, ,, Twins 5	
,, ,, Maternal Hydramnios 1	
no apparent cause 7	
Two of these babies were under $3\frac{1}{2}$ lbs.	
Six of these babies were under 4½ lbs.	
Number of babies discharged entirely breast fed	364
Number of babies discharged entirely bottle fed	96
Number of babies discharged part bottle and part breast fed	53
Premature babies admitted from district All under 4 lbs.	5
2 lived—(1) 3 lbs.	
(2) 3 lbs. 8 ozs	
3 died —shortly after admission.	

(b) MUNICIPAL MIDWIVES AND DOMICILIARY MIDWIFERY SERVICE.

The scheme for the domiciliary midwifery service has been maintained with eight Municipal Midwives. Each Midwife has received instruction in Minnitt's Gas/Air Analgesia, and the requisite number of machines have been ordered, but delivery is slow. The question of providing motor transport for each Midwife has been under consideration by the Council as it has been found that it is impossible to carry a heavy midwifery bag and a Minnitt's apparatus on a bicycle. The Town Ambulance Service is available at night for conveying midwives to their cases until the transport question is settled.

The Municipal Midwives attend the Ante-Natal Clinic at Risedale Maternity Hospital at special sessions which are conducted by the Maternity and Child Welfare Officer and any abnormal case is referred to the Obstetric Consultant.

The following is a summary of the work undertaken by the Midwives during the year:—

Municipal Midwives -8-Domiciliary cases.

o sometimes y custs.	
As Midwives	390
As Maternity Nurses	107
—7—As Midwives	43
As Maternity Nurses	112
	As Midwives As Maternity Nurses —7—As Midwives

The figures for Municipal Midwives represent 76% of the total domiciliary births in the Borough.

(c) WELFARE CENTRE.

The Welfare Centre continues to function energetically and the average attendances keep well up to expectations. The average attendance for 1945 was 142.5, compared with 138.5 for 1944. The number of children who first attended during the year and who, on the date of their first attendance, were under one year of age was 1,128, and those over one year of age was 75, whilst the total number of children who were under one year of age at the end of the year was 990, and over one year of age, 4,599. Two Assistant Medical Officers and five Health Visitors attend the Clinic. Babies are weighed weekly until they are three months old when, if their condition is satisfactory, monthly weighing is regarded as sufficient. The Medical Officers see all new babies referred by the Health Visitors for advice on feeding and general management of the child. Full use has been made of the facilities available for mothers to purchase dried milk, foods, vitamin preparations and other medicaments, and also to collect their allocation of Fruit Juice and Cod Liver Oil under the Ministry of Food Scheme. In order to reduce the average attendance to reasonable proportions, it will be necessary to decentralise the Clinics by new buildings in different areas of the town.

(d) WAR-TIME NURSERY.

This useful institution continued its activities during the year. The accommodation remained the same, viz—45 for day and 15 children at night. The number of children in attendance dropped steadily in the last quarter of the year since many of the mothers returned to their homes owing to the closing down of certain of the war-time industries. The training and care of the children was demonstrated in their improved physical condition and the instruction they received in personal hygiene and conduct laid a sound foundation for their future well-being.

(e) CARE OF PREMATURE BABIES.

Special attention was paid to the care of premature babies, and the arrangements for the admission of such babies to Risedale Maternity Hospital instituted last year was continued and achieved some success. Special visits to premature babies are paid by the Health Visitors.

(f) INFANTILE MORTALITY.

Infantile Mortality rate is expressed as the number of deaths of infants under one year per 1,000 live births. The death rate amongst infants has steadily declined, due in a great measure to the work being carried out by the Maternity and Child Welfare Authorities in their Maternity Hospitals, ante-natal clinics and child welfare clinics and also the grand work carried out by the Health Visitors and Domiciliary Midwives.

It is appreciated, however, that the constant improvement in health education of the general public, the teaching of mothercraft and parentcraft in schools, youth clubs and welfare centres has also helped in the reduction in the number of deaths of infants. There is no doubt, however, that such factors as economic distress, due to unemployment or low wages, bad and overcrowded houses, the employment of married women in industry, and the social class of the parents, namely unskilled or semi-skilled workers, has the effect of raising the infantile mortality rate. One hopes in the future post-war world that we shall see freedom from want, economic security for the family by full employment and adequate wages which will not require the mothers to work in industry, and better housing so that each family can have a decent home of their own in order to bring up their children.

When one analyses the causes of deaths of infants, one finds that they can be roughly divided into certain groups, namely, avoidable and unavoidable deaths. Under avoidable deaths, one can place the bacterial infections, such as gastroenteritis, pneumonia, bronchitis, and infectious diseases, such as measles and whooping cough. Deaths from these causes can be avoided by education of the mothers in general hygiene, clean milk supply, encouragement of breast feeding, pointing out the danger to young children if they contract measles and whooping cough, avoiding crowds when epidemics of colds are

about, and teaching the mothers not to neglect a cold in a child. It will be appreciated that the work carried out at our welfare centres and in the homes by the Health Visitors is primarily concerned with the reduction in the number of avoidable deaths.

The group which I term unavoidable deaths consists of Malformations and Prematurity, the latter, however, are not strictly unavoidable. One must appreciate that many cases of prematurity are due to toxæmias of pregnancy and, in order to save the mother and procure a live baby, labour is induced, resulting in a premature child with lessened chance of survival. The Ministry of Health have recently advised Welfare Authorities to make special provision for the care of premature infants by means of adequate ambulance services, hospital accommodation and special nursing care and supply of breast milk.

Many of the provisions will have to await building of the necessary hospital accommodation. In Barrow, arrangements have been made for special cots, suitably heated, and clothing which can be provided by the Midwife on the district and an ambulance service to remove cases to the Maternity Hospital where the home circumstances are unsuitable for treatment at home. Another cause of premature births is probably a deficiency in certain hormones in the mother towards the seventh month. There is room for further research in this field of medical science. Our present welfare services, with efficient ante-natal care and an obstetric consultant, can detect the early appearance of toxæmias and the provision of adequate ante-natal beds in hospital for treatment can lower the incidence of toxæmias of pregnancy and the special arrangements for the care of premature babies should lower the infantile death rate from this cause.

The principle group of unavoidable deaths is the **Malformations** and, in my opinion, cannot be reduced by the existing welfare services. Some observers believe that malformations are due to some fault in the chromosomes at the time of fusion, with the resulting imperfect implantation of the fertilised ovum. We do not really know why these malformations occur, and further medical research is required.

The statistics for Barrow for the years 1936—1944 show that the group I term unavoidable deaths, namely, malformations and prematurity, account on an average for 51.5% of all infantile deaths. The percentage due to malformations alone during the same period is 22.5%. The infantile death rate during the war years due to malformations has tended to increase, reaching the highest figure in 1944 (28.5%) which was the same year in which the highest number of women over 21 years of age were in employment. Before the war about 1,500 women and girls were employed in industry, but during the war the number so employed rapidly increased, reaching a peak in 1944, when nearly 6,000 women over 21 years of age, and 1,367 girls between

18 and 20 years were employed. One can assume a large proportion of the over 21 years group were married women, and one may assume that the employment of pregnant women may affect the fœtus and cause a malformation with the subsequent increase in the infantile death rate. Up to the end of 1945 there have been 75 infantile deaths, 22 of which were due to malformations and 22 to prematurity, therefore, almost one-third of the total infantile deaths was due to malformation.

Is some factor, such as the employment of women in industry, anxiety of the mother due to war conditions, separation from husband, evacuation of children, dangers from bombing or a general feeling of insecurity responsible, or is it some dietary deficiency? There is definitely some factor present which inhibits the full development of the fœtus, and, in my opinion, there is scope for further medical research.

(g) HOME HELPS.

Probably as a result of the return from industry to their own homes, more women applied for registration as Home Helps than for some years. The present panel consists of six Home Helps, which is sufficient to meet all reasonable demands. The indications are that more use will be made of this service, particularly as most of the Home Helps are prepared also to act as Domestic Helps.

(h) CARE OF ILLEGITIMATE CHILDREN.

All services which are available to married mothers are available to unmarried mothers and the supervision of illegitimate children is the same as for legitimate children. There is full co-operation with the Sister in Charge of the Home maintained by the Furness Association for Social and Moral Welfare, where unmarried expectant mothers stay until they can be transferred to the St. Monica Maternity Home, Kendal, which is subsidised by the Local Authority for any Barrow girls admitted.

(i) VENEREAL DISEASES.

There has been no change in the running of the Venereal Diseases Clinic since the last report. The Clinic is situated in the grounds of the Infectious Diseases Hospital at Devonshire Road. The staff consists of two part-time Clinical V.D. Officers, one full-time Male Orderly and two Sisters from Devonshire Road Hospital act as part-time assistants at the female clinics.

The Clinics are held as under :-

Males —Tuesday and	d Fr	iday		 7-0 p.m.
Females—Monday			****	7-0 p.m.
Wednesday				2-0 p.m.

VERMINOUS CONDITIONS.

One full-time Cleanser is employed by the Health Committee and two by the Education Committee, and their duty is to treat adult females and children of all ages who require cleansing. Health Visitors and School Nurses ascertain those verminous children who require treatment and make arrangements for them to attend at the Central Clinic. The only remaining First Aid Post closed down during the year, consequently such cases as cannot be treated at the Clinic, e.g. adult males, are treated at Roose Institution. Lethane oil is supplied and nit combs are lent to mothers of children free of charge for the eradication of nits. Scabies cases are treated with Benzyl Benzoate.

The following table shows the number of cases of Scabies dealt with during the year:—

Babies u	inder five	years	 			 	132
School C	hildren		 			****	 433
Adults			 	2000	1995		 77
							-
							642

IMMUNISATION AGAINST DIPHTHERIA.

The scheme for immunisation against diphtheria was continued vigorously during the year. School Nurses and Health Visitors take every opportunity of impressing on parents the advisability of having their children immunised. Every effort is made to encourage parents to have their children immunised in infancy and to have a further protective injection prior to the child entering school. During the Summer a publicity campaign, sponsored by the Ministry of Health and carried out by the Ministry of Information, was carried out locally, the main part of the campaign being through the medium of the press.

The following table shows the number of children immunised during 1945:—

Under five years	****		****	****	1351	****		730
5—15 years		100				1000		83

At the end of the year there were 2,122 children under five, and 6,197 between 5 and 15 who had completed a course of immunisation.

PARATHYPHOID B. FEVER.

There was an outbreak of Paratyphoid B. Fever in the middle of August, which lasted until the middle of September, with a second outbreak in October and November.

The outbreak was a milk borne infection, due to the milk supply being contaminated by carriers. One of the main difficulties in control of the infection was that many of the clinical cases and the carriers were without symptons and had not felt ill or been off work. Another contributing factor was the breakdown of the steam steriliser at the farm, which prevented the bottles from being properly sterilised, just at the period when the carriers had contaminated the milk. Investigations also showed that casual labourers helping with haymaking sometimes helped the normal milking team to strip the cows in the evenings, and they had also to be investigated.

The first indication of the outbreak was when a member of the Public Health Staff was admitted to Hospital with a pyrexia of unknown origin and routine blood examination revealed a positive Widal Test for Paratyphoid B. Investigation was immediately made at the household and at the farm supplying the milk. All the regular milking team were tested for their Widal reaction and the results were negative. A further visit was made to the farm, and it was discovered that the horseman and tractor driver assisted with the stripping of the cows in the mornings only and relieved the regular milkers at certain weekends, although they were not members of the milking team. Both these men had positive Widal Tests for Paratyphoid B. and they were removed to Hospital three days after the report of the first case. Neither man admitted having been ill at any time or had had symptons suggestive of Paratyphoid. They were found to be intermittent carriers and were allowed out of hospital after repeated tests, and returned to their respective duties of horseman and tractor driver, and forbidden to enter the dairy premises or interfere with the milking in any way.

A complete check up of the milking methods, bacteriological examinations of bottles, milk kits, sterilising chamber, bottle washing machine, cooler and bottle caps was made without finding any further source of infection. The drainage system of the farm was tested, the main water supply and a water beck where the cows splashed through on their way to and from the cowshed, without finding evidence of paratyphoid. The farmer was instructed regarding strict precautions in his milking methods and cleanliness of the milkers, and no-one except the recognised milkers were to handle the milk supply.

Investigation of the homes of the first clinical cases revealed that there had been several cases who had been ill in the same neighbourhood and had been treated for diarrhoea and pyrexia without being diagnosed by their private doctors, and consequently had never been notified to the Medical Officer of Health. These patients were visited, and specimens of blood, fæces and urine collected, and the results confirmed that they also had been infected with Paratyphoid B.

The investigation revealed that there were 23 cases of Paratyphoid B. Resulting from the contamination of the milk by the carriers, 12 cases had been ill and undiagnosed and treated by their doctors prior to the first notified case and 10 subsequent cases. Many of the patients denied they had been ill, but Widal Tests were positive in all.

There was a lull until October, when another case was diagnosed, and the milkers at the farm were re-inspected, but there had not been any illness since their previous examinations.

Blood tests were again performed and it was found that the dairy maid had now a positive Widal, whereas it was negative at the previous examinations. She had not been ill and had not had any symptons. The inference was that she had been infected in the interval between the two outbreaks and had herself contaminated the milk supply on this occasion. She was immediately taken off milking, a complete bacteriological investigation of blood, fæces and urine carried out, and not allowed to return until the fæces examinations were repeatedly negative.

The householders were immediately notified to boil all milk and the General Practitioners informed to be on the look out for more cases. There were seven further cases, all connected with this outbreak, occurring within the incubation period when the dairymaid was handling the milk. The last clinical case was on 16th November. Householders continued boiling their milk until 6th December, when they were informed that their milk supply was now pasteurised.

Great difficulty was experienced in obtaining facilities for pasteurising the milk, as there was only one plant in the town, and that was being operated by the Co-operative Society and being worked to capacity to supply their own customers, whilst the dairy-man in question was a producer retailer of accredited milk and a member of another Association.

The powers of the Medical Officer of Health under the Milk and Dairies Order are limited when dealing with an outbreak like this. There are no powers of compulsion to have the milk heat treated, only powers of stopping the supply for 24 hours.

On the 6th December the milk producer eventually agreed to have the milk supply pasteurised and bottled at the Co-operative Society Pasteurising Plant, and there have been no further cases.

The following table is a theoretical reconstruction of the origin of the outbreak and the dates when the actual patients first became ill. The 18th of August was the date of the first notification, and the 22nd August was the date when the carriers were confirmed by Widal Test and removed to Hospital.

THEORETICAL DATES WHEN OUTBREAK BEGAN AND ONSET OF CLINICAL SYMPTONS.

```
Onset of clinical symptons.
                     First notified case.
                  X Removal of carriers from milking.
JUNE.
17th
          Theoretical date.
23rd
          When carriers contracted the disease.
24th
          Temporary labourers as haymakers helped the milkers in the
              evenings.
30th
JULY.
1st
          Sterilising boiler broke down and out of commission and bottles
               not properly sterilised.
23rd
AUGUST.
 4th
 6th
 7th
 9th
10th
12th
18th []
20th
21st
22nd X
27th
SEPTEMBER.
 1st
 3rd
10th
17th
                Contacts of earlier case.
22nd
                             2ND OUTBREAK.
OCTOBER.
12th
20th
29th
31st
NOVEMBER.
10th X
```

11th 16th

AMBULANCE SERVICE.

With the closing down of Civil Defence the problem of staffing the Town Ambulances became more acute. After prolonged negotiation, the running of the service was taken over by the Transport Committee on behalf of the Health Committee, on 1st July.

The number of cases transported during the year was as follows:-

T	otal			****		2,152
Out of town journeys			****		****	87
Removals (illness)					****	1,463
Accidents						602

There are three town ambulances and one ambulance stationed at Devonshire Road Hospital for the purpose of removing cases of infectious disease to the Isolation Hospital.

GOVERNMENT EVACUATION SCHEME.

With the cessation of hostilities the Government Evacuation Scheme ceased to operate during the year, and the evacuees who had been received here returned to their homes in London. Prior to their return they were all medically examined.

BLOOD TRANSFUSION SERVICE.

The Blood Bank at the North Lonsdale Hospital continued during the year, and the Volunteer Car Pool continued its useful work of transporting patients to and from outlying districts and also conveying the blood to the E.M.S. Laboratory at High Carley.

E.M.S. PATHOLOGICAL SERVICE.

All of the Public Health laboratory work is carried out at the E.M.S. Laboratory at High Carley. Specimens are despatched daily by 'bus, resulting in a quick and efficient service. I wish to acknowledge my indebtedness to Dr. J. Carr Brundret (who left the Laboratory during the year) and to Dr. Eric H. Bailey, his successor, for their assistance in carrying out investigations for the Department.

ULTRA-VIOLET CLINIC.

392 individual children made 3,986 attendances at the Ultra-Violet Ray Clinic for Non-tuberculous children during the year.

MASSAGE AND REMEDIAL EXERCISES CLINIC.

This Clinic remained in abeyance during the year, as it was not possible to obtain a Physiotherapist. It is gratifying to report that the position has now been remedied and the clinics were re-started early in 1946.

ORTHOPÆDIC CLINIC.

Bi-monthly clinics attended by the Medical Superintendent of Ethel Hedley Hospital, Windermere, are held at the Central Clinic. Urgent cases requiring immediate examination are sent to Ethel Hedley Hospital by special appointment.

The following table shows the attendances at the Clinics held during the year:—

Non-Tuberculous.

М.	& C.W.	School Children.	Adults (over 16).
No. of individual patients attending	73	91	1
Total attendances	130	152	1
TUBERCULOUS.			
No. of individual patients attending	-	_	1
Total attendances	_	_	1

PORT HEALTH.

With the removal of security restrictions it is again possible to give a resume of the work carried out in connection with port health work during the year, particulars of which are appended:—

PORT HEALTH SURVEY.

I—AMOUNT OF SHIPPING ENTERING THE PORT DURING THE YEAR 1945.

TABLE A.

				No. Ins	pected.		of vessels	Number of vessels report- ed as having,
		Number	Tonnage	By the Medical Officer of Health.	e By the Defe of Sanitary		defects	or having had, during the voyage, infect- ious disease on board.
	Steamers	57	132678	2	57	10	7	
Foreign	Motor							
	Sailing							
	Fishing							
Total	Foreign	57	132678	2	57	10	7	
	Steamers	141	62156		32	2	1	
Coastwise	Motor	84	41050		16	1 -	1	
	Sailing							
	(Fishing							
Total Co	oastwise	225	103206		48	3	2	- 1
Total Fore Coast	-	282	235884	2	105	13	9	

II-CHARACTER OF TRADE OF PORT.

TABLE B.

- (a) There was no passenger traffic to and from the Port during the year.
- (b) Cargo Traffic. The Chief cargoes brought to the Port consisted of iron ore. The export traffic was mainly Government Stores.
- (c) Vessels arrived from the following foreign ports:—Narvik, Oxelosund, Harnosand, Hornillo, Almeria, Bilbao, Melilla, Bougie, Bona, Freetown, Victoria (Brazil), Irish Free State.

III—SOURCE OF WATER SUPPLY.

The town's water is laid on to the docks, and is utilised for shipping, the water-main adjoining the dock side.

There are no water-boats at the Port.

IV-PORT HEALTH REGULATIONS, 1933.

1. Arrangements for dealing with Declarations of Health.

Blank Declaration of Health forms are sent periodically to the Pilots. One is handed to each Master when the Pilot boards the ship, and, on arrival of the vessel at this Port, the signed Health Declaration is usually filled in and signed, and the Master hands it to the Customs Officer or Sanitary Officer, whichever is first aboard.

2. Boarding of Vessels on Arrival.

Vessels arriving from infected or suspected ports are always boarded by the Customs Officer and Sanitary Officer together. Other vessels are usually boarded by the Customs Officer in the first instance.

- 3. Notification to the Authority of Inward Vessels Requiring Special Attention (Wireless Messages, Land Signal Stations, etc.) No information was received by wireless messages or local signal stations. Any information is usually conveyed by Customs Officers and Pilots.
 - 4. MOORING STATIONS DESIGNATED UNDER ARTICLE 10.

A mooring station has been agreed upon. As a suitable and safe anchorage is not available in the vicinity of the Port, it has been arranged, under the circumstances, that the inner mooring station near Buccleuch Bridge within Ramsden Dock be established as a mooring station for all unhealthy ships arriving at Barrow, including "infected" or "suspected" vessels outside the exemptions mentioned in (5) agreed upon.

5. Particulars of any Standing Exemptions from the Provisions of Article 14.

A standing exemption from detention under Article 14 has been agreed upon in respect of ships unhealthy on account of :—

Acute Polio-Encephalitis German Measles

Cerebro-spinal Meningitis Measles (Cerebro-spinal Fever) Malaria

Chickenpox Membranous Croup

Continued Fever Pneumonia (either primary or

Diphtheria influenzal)

Dysentery Relapsing Fever

Epidemic Infantile Paralysis Scarlatina (Scarlet Fever)

(Acute Poliomyelitis) Trench Fever Encephalitis Lethargica Tuberculosis (all forms)

Erysipelas Typhoid Fever (Enteric Fever)

and of ships otherwise healthy which arrive from areas listed under Article 11.

6. Experience of Working of Article 16.

Instructions have been given to Harbour Authorities, tradespeople and other persons in the habit of visiting ships at the Port to keep clear until the ship is free from control. No difficulty is now experienced under this Article.

7. CLEANSING AND DISINFECTION OF SHIPS, PERSONS, CLOTHING, ETC.

In cases of necessity the arrangements for disinfecting infected quarters are carried out by the Sanitary Officers, and cases requiring isolation would be found accommodation at the Borough Isolation Hospital, Devonshire Road. Special arrangements have also been made at the Hospital for the reception of cases of infectious disease from overseas and for the observation of contacts. The Corporation motor ambulance is available for the removal of cases to Hospital. All contacts are kept under the supervision of the Port Medical Officer.

- 8. Bacteriological and Pathological examinations of rats for plague would be carried out at the Central Emergency P.H. Laboratory, Cardiff.
- Bacteriological and Pathological examinations are carried out at the E.M.S. Laboratory, High Carley, near Ulverston.
- 10. A local Centre exists at the Devonshire Road Hospital for the diagnosis and treatment of Venereal Disease. The Ministry's circulars to seamen are regularly distributed on vessels arriving at the Port, and every assistance is given to patients in obtaining treatment.

TABLE C.

No cases of infectious sickness were landed from vessels during 1945.

TABLE D.

No cases of infectious diseases occurring on vessels during the voyage, but disposed of prior to arrival, were reported.

V-MEASURES AGAINST RODENTS.

The Port is not seriously threatened with rat prevalence. As a precautionary measure, however, the officer in charge of vessels is requested, when considered necessary, to have the rat guards fixed on hawsers to prevent the passage of rats between ships and the shore.

TABLES E. AND F.

(1) ON VESSELS.

Number of Rats.	Jan.	Feb.	Mar.	Apr	. Ма	ay J	une. Jul.
Black							
Brown				2			
Species not recorded	****						
Examined				2			
Infected with Plague				Nil			
Number of Rats	Au	ıg. S	ep. O	ct.	Nov.	Dec.	Total in year.
Black				2	1	1	4
Brown							2
Species not recorded					42.4	****	
Examined			1	2	1	1	6
Infected with Plague			N	il.	Nil.	Nil.	Nil.

No Rats were destroyed on Vessels, and none at Docks, Quays, Wharves and Warehouses.

TABLE G.

It was not found necessary to take any measures of Rat Destruction with regard to vessels arriving from Plague "infected" ports.

TABLE H.

As from May, 1930, the Port was included in the list of Ports where the Medical Officer of Health is authorised to issue the Deratisation Certificates and Deratisation Exemption Certificates for which provision is made in Article 28 of the International Sanitary Convention, 1926.

13 Exemption Certificates on Form Port 11 were issued during the year.

DERATISATION CERTIFICATES AND DERATISATION EXEMPTION CERTIFICATES ISSUED DURING THE YEAR

	No. of Deratization Certificates issued.						No. of Deratiz		
Net Tonnage.	No.	After	fumigatio	n with	After Trapping		ation Exemp- tion	Total Certi- ficates	
Tet Touringe.	Ships.	H.C.N.	Sulphur	H.C.N. and Sulphur	Poison-	Total.	Certifi- cates issued	issued.	
Ships up to 300 tons									
Ships from 301 tons		1	(6 00)		10000				
to 1000 tons	1						1	1	
Ships from 1001 tons		10000	1						
to 3000 tons	3						3	3	
Ships from 3001 tons									
to 10000 tons	9	1				1	8	9	
Ships over 10000 tons		*****							
Totals	13	1				1	12	13	

No vessel arrived at the Port either Plague-infected or Plague-suspected. No Vessels from Plague-infected Ports arrived during the year.

VI—HYGIENE OF CREWS' SPACES.

TABLE J. CLASSIFICATION OF NUISANCES.

Nationality of Vessel.	No. inspected during the year.	Defects of original construction.	Structural defects through wear & tear.	Dirt, vermin and other conditions. prejudicial to health.
British	244	. 1	. 10	26
Other Nations	38	-	2	5

7. FOOD INSPECTION.

No foodstuffs arrived at the Port during the year, therefore no action was taken under the Public Health (Imported Food) Regulations, 1937, the Public Health (Preservatives, etc., in Food) Regulations, 1925—1940, and the Food and Drugs Act, 1938 (Section 39), respectively.

SHELLFISH LAYINGS.

SHELLFISH-

It was not found necessary during the year to take any action under the Public Health (Shellfish) Regulations, 1934, no complaints of contamination having been received. Layings are to be found round the coast, chiefly at Piel and Rampside, and at points in the Walney Channel known as Head Scar and Scarth-hole. The latter, however, lies just outside the Borough boundary. The Walney Channel and Rampside public layings are liable to sewage contamination, but, since the issue of prohibition notices in 1918, no complaints have been received.

TOTAL NUMBER OF SAMPLES ANALYSED DURING THE YEAR ENDING 31ST DECEMBER, 1945. FOOD AND DRUGS ACT, 1938.

No. o	No. of Samples taken.	taken.	Description of Sample.	No. of	No. of Samples genuine.	enuine.	No. of Sa	No. of Samples adulterated or not up to standard.	rated or
Formal.	Informal	Total.		Formal.	Informal	Total.	Formal.	Informal	Total.
127		127		601		109	18		18
5		9	Pasteurised Milk	. 5		2			
1	****	1	ne an			1			,
2		2	Pepper	2		2			
1		1		1		1			
9	:	9		9		9			
1		7		-					
2	2	4	Mixture	2	2	4			
2		2	ır	2		2			
1		-	Semolina	1		-			
01		2 -	Pudding Mixtures	5	****	2			
-		- 1	Egg Substitute Powder	1	****	1			
1		- 0	Almond Substitute	-		-		****	
71		70	Gelatine	2	27	7			
7	-	00 1			-	9	2	****	2
2.		0		2		7			
-			Ground Nutmeg						
			Barley Crystals			_ ,	****		
-		10		-		- 0		::	
:	00	00		-	00	00			
	100	1 ox	Soya Flour Eich and Mast Dactes		110	70		::	
	10	10	and meat Lastes		10	100			::
	,	1			10	10	***		
			1 3						
***	4	4	Proum Meat			,			
	+ 1/	- 10	Delens.	***	+ 11	+ 11			
	00	0 0	Foloniy		00	00			
	0 00	0 00			00	00			
	00	0	Camphorated Oil		00	00			
	1 0	1	Campiotated Oil	1000	1	7			
166	48	214		146	48	194	20		20

SANITARY CIRCUMSTANCES.

The following is a summary, prepared by the Chief Sanitary Inspector
of the work carried out in his Department during the year :-
HOUSING.
No. of dwelling-houses in respect of which formal notices were served re-
quiring execution of repairs, etc.
No. of dwelling-houses which were rendered fit for human habitation after
service of formal notices
No. of dwelling-houses rendered fit by the Corporation in default of the
owners 2
At the end of the year action was pending in respect of 1 dwelling-
house.
No. of vacant Corporation Houses examined prior to re-letting 12
No. of private dwelling-houses examined in respect of applications for
re-housing from Tuberculous patients 12
No. of occupied Corporation Houses inspected 96
No. of visits to private dwelling-houses in connection with overcrowding 46
ABATEMENT OF NUISANCES.
No. of complaints regarding nuisances and sanitary defects received
and investigated
No. of inspections and re-inspections made under the provisions of
the Public Health Act and Housing Act 5092
No. of Intimation Notices served in connection with Nuisances and
Sanitary Defects 665
No. of Statutory Notices served in connection with Nuisances and
Sanitary Defects 305
The following is a summary of work carried out during the year as a
result of formal action, and in addition to a considerable amount of work
effected as a result of informal action :
WATER CLOSETS, FLUSHING APPARATUS, ETC.
No. of W.C. roofs repaired
No. of W.C. floors repaired or renewed
No. of W.C. doors repaired or renewed
No. of W.C. flushing apparatus repaired or renewed
No. of W.C. flushing apparatus provided with proper supply of water 6
No. of broken W.C. basins renewed 92
EAVES GUTTERS, RAINWATER PIPES, GULLEYS, ETC.
No. of eavesgutters repaired or renewed 96
No. of rainwater pipes repaired or renewed
No. of gratings provided to gulleys
No. of yard gulleys unstopped
No. of broken gulleys renewed 29
No. of defective lead valley gutters repaired or renewed 9

DRAINAGE AND YARD PAVING, I	ETC				
No. of stopped W.C. drains cleared and repaired					24
No. of defective W.C. drains repaired or re-laid					11
No. of defective surface water drains repaired or re-laid					13
No. of stopped surface water drains cleared and repaired					22
No. of defective drain vent shafts repaired or renewed					25
No. of leaking yard drains repaired or renewed					12
No. of stopped cellar area drains cleared and repaired					1
No. of defective yard surfaces repaired or renewed					23
No. of broken and defective sink waste pipes renewed					43
YARD WALLS, YARD DOORS,	ETC).).			
No. of defective yard doors repaired or renewed				****	48
No. of defective yard walls repaired or rebuilt			****		40
No. of defective coalhouse walls		1	2000		3
No. of defective covers to cellar areas			****		1
No. of disused ashpits removed	****		****		10
No. of dangerous lintels to yard doors refixed or renewed					8
GENERAL REPAIR AND RENEWALS TO DWEL	LIN	IG-H	IOUS	SES	
No. of roofs repaired					174
No. of floors repaired or renewed					163
No. of cases of dampness in walls remedied					110
No. of cases of defective plasterwork of walls and ceiling				or	
renewed		-			423
No. of defective house walls repaired or rebuilt				*	38
No. of defective doors repaired or renewed					69
No. of defective kitchen firegrates repaired or renewed		****			64
No. of defective areas repaired or renewed					11
No. of defective chimney flues repaired or reconstructed					4
No. of defective chimney stacks repaired or rebuilt	****	****		****	16
No. of dwelling-houses provided with a sufficient supply	of w	ater			112
No. of defective water taps repaired or renewed					10
No. of defective washing boilers repaired or renewed	****				23
No. of burst water pipes repaired					21
No. of defective window sills repaired or renewed					4
No. of defective cement renderings to external walls repa	ired	or r	enev	ved	9
No. of lavatory basins renewed		****			3
No. of door steps renewed		****			5
No. of skylights repaired or renewed					4
No. of fasteners to windows renewed				,	15
No. of sinks renewed			135558		18
No. of vent bricks provided to walls					12
No. of loose handrails to staircases re-fixed				****	
					12 105

No. of defective refuse bins replaced 47
OTHER NUISANCES.
No. of filthy and verminous premises cleansed and disinfested 4
No. of nuisances from the keeping of animals and fowls abated 8
No. of nuisances from filthy bedding abated 1
Miscellaneous nuisances 45
WATER SUPPLY TO OCCUPIED DWELLING-HOUSES.
No. of Statutory Notices served under the provisions of Sec. 138 of the
Public Health Act, 1936, requiring the provision of a sufficient supply
of wholesome water to occupied dwelling-houses 51
No. of dwelling-houses provided with a sufficient supply of wholesome
water by the Corporation in default of the owners 4
DRAINAGE WORK.
The provisions of Section 41 of the Public Health Act, 1936, regarding
the notification to be given to the Local Authority of the repair, reconstruction
or alteration of the course of any underground drain, are enforced by the
Department, and all such work is inspected and approved by the Sanitary
Inspectors before being covered in.
FACTORIES ACT, 1937.
No. of inspections carried out under the provisions of Part I. of the
Factories Act, 1937 143
No. of formal notices served under the above provisions 4
No. of formal notices complied with under the above provisions 4
No. of informal notices served and complied with under the above
provisions 26
SHOPS ACT, 1934.
No. of inspections carried out under the provisions of Section 10 of the
Shops Act, 1934 96
FOOD AND DRUGS ACT, 1938.
No. of inspections of Food premises 865
No. of premises registered during the year under Sec. 14 in connection
with the preparation or manufacture of sausages or potted, pressed,
pickled or preserved food
Total No. of such premises on the register 94
No. of premises registered during the year under Sec. 14 in connection
with the manufacture or sale of Ice-cream
Total No. of such premises on the register
PUBLIC HEALTH (MEAT) REGULATIONS, 1924.
No. of inspections of butchers' shops and the Cold Stores

RODENT CONTROL.

The Council employ a Rodent Officer and a Rat-Catcher to deal with rat and mouse infestation. The work is carried out free of charge, with the exception that occupiers of business premises, factories and workplaces are required to pay for the cost of materials and labour. The following is a Summary of the work carried out in this connection during 1945:—

Summary of the work carried out in this connection during 1945:—										
No. of reports of infestation received and investigated			452							
No. of premises found to be infested and treated	****		224							
Amount of poison bait taken		456	ounc€s							
Estimated No. of rats poisoned			1141							
No. of dead rats found after poisoning			196							
No. of rats trapped			309							
No. of rats killed by other means			125							
No. of mice trapped			352							
Estimated No. of rats poisoned as a result of a sewer-baiting campaign										
carried out by the Engineer and Surveyor's Department	nt		6625							

During the course of the sewer-baiting campaign the Rodent Control staff carried out systematic inspections of properties adjacent to the sewers undergoing treatment and it was found that the sewer work had a very marked beneficial effect upon the infestations discovered in surface properties.

Many surface infestations have been remedied throughout the Borough by means of the repair or reconstruction of defective drainage systems.

MILK SUPPLY.

No. of registered Dairy Farms				37
No. of visits of inspection paid to dairy farms	 ****	****		212
No. of visits paid to Retail Dairies and Milk Shops	 		 	209

Clinical Examinations of dairy cattle were carried out by a Veterinary Officer appointed by the Minister of Agriculture and Fisheries, and the reports received from time to time show that the health of the dairy cattle in the Borough has been very good.

BIOLOGICAL EXAMINATION OF MILK SAMPLES

DIOLOGICAL EXAMINATION OF MICK SAMPLES.
No. of bulk raw and Pasteurised milk samples submitted for animal
inoculation test 212
No. of bulk raw milk samples showing the presence of B. Tuberculosis 6
No. of bulk Pasteurised milk samples showing the presence of B. Tuberculosis 1

Details regarding the 6 samples showing positive results were sent to the Divisional Officer of the Ministry of Agriculture and Fisheries, and as a result of the subsequent clinical examinations of the herds concerned, together with the examination of further samples of milk taken from groups of cows in each herd, the affected animals were discovered and immediately removed from the herd for slaughter under the provisions of the Tuberculosis Order, 1938. With regard to the positive sample of Pasteurised milk, further samples submitted all proved to be negative.

BACTERIOLOGICAL EXAMINATION OF MILK SAMPLES.

PASTEURISED MILK. No. of samples taken No. satisfactory in all respects 34 No. unsatisfactory on Plate Count Test 19 No. unsatisfactory on Coliform Test No. unsatisfactory on Phosphatase Test No. unsatisfactory on Meth. Blue Test No. of Licensed Milk Pasteurisers in the Borough ACCREDITED MILK (PRODUCED WITHIN THE BOROUGH). No. of samples taken No. satisfactory on both Meth. Blue and Coliform Tests 30 9 No. unsatisfactory on Meth. Blue Test 11 No. unsatisfactory on Coliform Test No. of Licensed Accredited Milk Producers in the Borough 6 ACCREDITED MILK (PRODUCED OUTSIDE THE BOROUGH). No. of samples taken 42 No. satisfactory on both Meth. Blue and Coliform Tests 26 No. unsatisfactory on Meth. Blue Test 13 No. unsatisfactory on Coliform Test TUBERCULIN TESTED MILK (PRODUCED OUTSIDE THE BOROUGH). No. of samples taken No. satisfactory on both Meth. Blue and Coliform Tests 2 No. unsatisfactory on Coliform Test ORDINARY MILK (PRODUCED WITHIN THE BOROUGH). No. of samples taken 117 No. satisfactory in all respects No. unsatisfactory on Plate Count Test No. unsatisfactory on Meth. Blue Test 31 No. unsatisfactory on Coliform Test ORDINARY MILK (PRODUCED OUTSIDE THE BOROUGH). No. of samples taken No. satisfactory in all respects No. unsatisfactory on Plate Count Test No. unsatisfactory on Meth. Blue Test No. unsatisfactory on Coliform Test

There is no prescribed bacteriological standard for Ordinary Milk; the standard adopted being that for Accredited Milk as regards the Methylene Blue and Coliform Tests, and a Plate Count of 200,000 Colonies for 1 c.c. as regards the Bacterial Count Test.

MEAT INSPECTION.

NUMBER OF ANIMALS SLAUGHTERED AT THE PUBLIC ABATTOIRS.

NUMBER OF ANIMAL	s Slaug	HTERED AT	THE PUBLIC	ABATTOIRS.	
Year.	Cattle.	Calves.	Sheep.	Pigs.	Total.
1943	4134	3693	36983	1541	46351
1944	4253	3342	43623	948	52226
1945	4270	5516	28665	347	38798
Increase	17	2174	_	_	-
Decrease	_	-	14958	601	13428
NUMBER OF WHOLE	CARCASI	es with Of	FALS CONDEM	NED.	
Year.	Beef.	Veal.	Mutton	Pork.	Total.
1943	82	55	89	21	247
1944	148	80	157	17	402
1945	144	173	73	8	398
Increase	_	93	_	_	_
Decrease	4	_	84	9	4
The total weigh	t of meat	condemne	at the Abat	toirs during	the year
was :76 tons, 17 cwt			i de ene ixoue	cons during	the year
UNSOUND MEAT: CAN			CARCASES CO	NDEMNED A	T THE
ABATTOIRS.	KCASES A	IND TAKE	CARCASES CO	NDEMNED A	I THE
Disease.	Beef.	Veal.	Mutton.	Pork.	Total.
Discase.	lbs.	lbs.	lbs.	lbs.	lbs.
Tuberculosis	00000	853	103.	1347	65028
Other conditions	7994	4630	2620	469	15713
other conditions					
	70822	5483	2620	1816	80741
Unsound Viscera (COMPENN	ED AT THE	ADATTOIRE		
Disease.	Beef.	Veal.	Mutton.	Pork.	Total.
Discase.	lbs.	lbs.	lbs.	lbs.	lbs.
Tuberculosis		162	105.	1365	49902
Other conditions		1159	7760	93	41317
other conditions			7700		41017
	80680	1321	7760	1458	91219
OTHER FOORETHERS	Every	en in Ci	innevenen		
OTHER FOODSTUFFS					
Imported Beef					
Imported Mutton					
Imported Pork					
Minced Beef					
Cooked Meat (Mut 56 x 6 lbs. Tins of					
176 x 12 ozs. Tins					
170 X 12 028. 1188	or canne	d Corned E		132 1	JS.

CONGENITAL TUBERCULOSIS IN CALVES.

During the year 8 cases of Congenital Tuberculosis in calves have been found on post mortem examinations at the Abattoirs.

Notification was sent in each case to the Ministry of Agriculture and Fisheries, and appropriate action taken, resulting in 5 dams having been dealt with by slaughter under the provisions of the Tuberculosis Order, 1938, and one dam having been slaughtered prior to the visit by the Ministry of Agriculture and Fisheries Veterinary Officer.

ICE-CREAM.

During October, 1945, an investigation into the bacteriological standards of Ice-cream manufactured and sold within the Borough was commenced. After unsatisfactory results had been obtained in the first 6 samples, the premises of the manufacturers were re-visited and detailed instructions regarding the hygienic production of ice-cream, together with advice regarding the sterilization of their equipment, was given. On re-sampling, it was found that this follow-up work had had a markedly beneficial effect resulting in satisfactory reports being received in all the 6 repeat samples.

Samples of ice-cream were also submitted for Chemical Analysis, the results of which showed that generally the commodity was of very poor quality.

On the recommendation of the Medical Officer of Health your Committee passed a resolution urging the Ministry of Health and the Ministry of Food to make minimum legal standards for Ice-cream.

ADMINISTRATION OF THE FOOD AND DRUGS ACT

RELATING TO SAMPLES OF FOOD ANALYSED DURING THE YEAR 1945.

NEW MILK.

One formal sample was reported to be slightly watered, the same being sour on receipt by the Analyst.

Two formal samples from the same source were reported to contain 6% and 7% of added water respectively. The Dairy Farmer was prosecuted in each case.

One formal sample was reported to be deprived of 10% of its milk fat. A further sample taken at the place of delivery proved to be milk of abnormal composition.

One formal sample was reported to be deprived of 30% of its milk fat. The bottle containing the retained third portion of sample burst.

One formal sample was reported to be deprived of 16% of its milk fat. "Appeal to Cow" samples were taken, two of which proved to be deficient in milk fat. The Dairy Farmer was interviewed and cautioned.

One formal sample was reported to be deprived of 39% of its milk fat. A further sample taken at the place of delivery proved to be deprived of 11% of its milk fat. The Dairy Farmer was communicated with and an explanation received.

One formal sample was reported to be deprived of 13% of its milk fat. The vendor was interviewed and cautioned.

One formal sample was reported to be deprived of 6% of its milk fat. A further sample taken at the place of delivery was reported to be deficient in milk fat. The Dairy Farmer was interviewed and cautioned.

One formal sample was reported to be slightly watered and deprived of 5% of its milk fat. The Dairy Farmer was interviewed and cautioned.

Three formal samples were reported to be milks of abnormal composition.

BAKING POWDER.

One formal sample was reported to be deficient in available carbon dioxide to the extent of not less than 56%. The Vendor was prosecuted.

One formal sample was reported to be deficient in available carbon dioxide to the extent of not less than 20%. The Vendor was interviewed and cautioned. Stock was withdrawn from sale and returned to manufacturers.

OFFENCES OTHER THAN ADULTERATION.

PASTEURISED MILK.

One formal sample was reported to be insufficiently heat treated to Pasteurise it. The Vendor was interviewed and cautioned.

EGG SUBSTITUTE POWDER.

One formal sample was purchased. The sale of this article as sold, is forbidden by The Food Substitutes (Control) Order, 1941. The Vendor was interviewed and cautioned, the stock being immediately withdrawn from sale and returned to the manufacturers.

BUN POWDER.

One formal sample was purchased. The Public Analyst reported that the sale of this article, so labelled, was an attempt to evade the provisions of the Food Standards (General Provisions) Order, 1944, as amended.

ALMOND SUBSTITUTE.

One formal sample was purchased. The sale of this article as sold, is forbidden under the Food Substitutes (Control) Order, 1941. The Vendors were interviewed and cautioned. The article (small stock) was withdrawn from sale.

LEGAL PROCEEDINGS.

Summary of samples in connection with which legal proceedings were taken during the year:—

Nature of Sample. Nature of Offence. Result of Legal Proceedings.

New Milk Contained 6% of added water Dairy Farmer fined £2 0s. 0d. New Milk Contained 7% of added water and 10/6d. Costs in each case. Baking Powder Deficient in available carbon Vendor fined £1 0s. 0d. and

dioxide to the extent of not \10/6d. costs.

less than 56%.

ANALYSIS OF MILK SAMPLES.

-		
1	Number of Samples analysed	132
N	Number of samples reported genuine	114
	Number of samples reported to be adulterated or below the Standar	
	of the Board of Agriculture	
F	Percentage of samples adulterated or below the Standard of the Board	
-	Agriculture	13.63
100		10.00
A	Average % of fatty and non-fatty solids in total samples analysed :—	
	Fatty solids	3.52
	Non-fatty solids	8.75
	Total solids	12.28
	SUMMARY.	
N	Number of samples showing deficiency in milk fat	11
	Number of samples showing added water	
T		4
	FERTILISERS AND FEEDING STUFFS ACT, 1926.	
	4 Informal Samples of feeding stuffs were submitted for analysis	under
1		
t	he above Act during the year. All the samples were reported satisfa	ctory.

UNSOUND FOOD.

The following articles of food dealt with by Authorised Officers under the Food and Drugs Act, have been voluntarily surrendered and destroyed or salvaged during the year.

DESTROYED.

			-					
Tins of Meat	****		****					177
Tins of Fish								432
Tins of Veget	table	S			****			222
Tins of Fruit					****			6
Tins of Milk								429
Tins of Soup								78
Jars of Prese								162
	1,00	2000	*****	*****	****		****	
Jars of Fish	****	****	****	****	J			7
Bottles of Sa	uce							21
					T.	C.	Qrs.	Lbs.
Fish	****	****			T. 2	C. 10	Qrs.	Lbs. 25
Fish Vegetables							1000000	
					2	10	0	25
Vegetables					2	10 16	0	25 6 26
Vegetables Cereals Dried Fruit				****	2	10 16 18	0 1 1	25 6 26 16½
Vegetables Cereals Dried Fruit Sausage			1111		2	10 16 18 6 1	0 1 1 3 1	$ \begin{array}{c} 25 \\ 6 \\ 26 \\ 16\frac{1}{2} \\ 15\frac{1}{2} \end{array} $
Vegetables Cereals Dried Fruit				****	2	10 16 18 6	0 1 1 3	25 6 26 16½
Vegetables Cereals Dried Fruit Sausage					2	10 16 18 6 1	0 1 1 3 1	$ \begin{array}{c} 25 \\ 6 \\ 26 \\ 16\frac{1}{2} \\ 15\frac{1}{2} \end{array} $
Vegetables Cereals Dried Fruit Sausage Meats					2	10 16 18 6 1	0 1 1 3 1 2	25 6 26 16½ 15½ 9

Condiments .						4	2	8
Cheese				22.55			2	81/2
Tea							1	22
Coffee							3	63
Confections							1	6
Bacon and Ha	m						3	$26\frac{1}{4}$
Baking Powde	r						1	0
Meat Extract							2	0
Fats								$16\frac{3}{4}$
Hops								7
Edible Snails								2
Fish Cakes						11	61 6	lozen.
Assorted Powd	lers					18	7 de	zen.
Orango Inico						1.	roll.	
Orange Juice				48.00		1 3	gallo)11.
Meat Pies						12	5 7 7 7 7	л.
						12	5 7 7 7 7	,11.
Meat Pies						12	3	,11.
Meat Pies						12	3	л.
Meat Pies					т.	12	3	lbs.
Meat Pies Rabbits					T. 3	12	3 8.	
Meat Pies Rabbits		SA	LVAC	GE.		12 13 C,	3 8.	lbs.
Meat Pies Rabbits Preserves Bacon and Ha		SA	LVAC	 ЭЕ.		12 13 C,	3 8. Q. 1	lbs. 2 3
Meat Pies Rabbits Preserves Bacon and Ha	m	SA	LVAC	GE.		12 13 C,	3 8. Q. 1 3	lbs.
Meat Pies Rabbits Preserves Bacon and Ha Cereals	m	SA	LVAC	GE.		12 13 C,	3 8. Q. 1 3 1	lbs. 2 3 0½
Meat Pies Rabbits Preserves Bacon and Ha Cereals Butter	m	SA	 (LVA)	GE.		12 13 C,	3 8. Q. 1 3 1	lbs. 2 3 0½ 27¼

WATER SUPPLIES.

- 1. The water supply has been improved during the past year and the Council have had a consulting Water Engineer to survey the undertaking and make a report on improvements in the chemical treatment and filtrations of the supply. The quantity of water supplied to the town is quite adequate.
- 2. The whole of the Borough has a piped water supply. Regular chemical and bacteriological examinations are carried out by the Water Engineer's Department and the Public Health Department, the former samples from the intake, after filtration and treatment, and from the reservoir, whilst the latter samples from various piped supplies throughout the Borough. A regular interchange of information between the two departments is maintained. The following are the number of analyses made during the year:—

GAS AND WATER DEPARTMENT, 1945.

Bacteriological Examination of Water	Satisfactory		7
	Unsatisfactory		29
			-
	Total		36
Chamical Analysis of Water	Satisfactory		12
Chemical Analysis of Water	CONTRACTOR OF THE PARTY OF THE		
	Unsatisfactory		
	Total		13
PUBLIC HEALTH DEPARTMENT,	1945.		
BACTERIOLOGICAL EXAMINATION O	F WATER.		
Corporation Supply	Satisfactory		5
	Unsatisfactory		2
			-
			7
			-
Well Water			
Swimming Bath Water	Satisfactory	****	1
			121

- 3. Lead pipes for domestic supply are not permissible owing to the nature of the water, which would cause plumbo solvent action in them.
- 4. The entire water supply is chlorinated to prohibit the growth of B. Coli which is present in the untreated water and cannot otherwise be dealt with until the new scheme of chemical treatment is installed.
- There are 18,139 dwelling houses in the Borough, and the population is 66,690. All houses are supplied direct from the water main, none from standpipes.