Contributors

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County

Borough



of Bolton.

ANNUAL REPORT

OF THE

Medical Officer of Health

1940.

BOLTON : HOPKING & SONS, CENTRAL STREET, 1941.

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PUBLIC HEALTH DEPARTMENT, CIVIC CENTRE, BOLTON.

December, 1941.

To the Chairman and Members of the Public Health Committee :

LADIES AND GENTLEMEN,

I have the honour to present the Report for 1940, the Sixtyninth Annual Report on the Health of Bolton. The Report has been greatly reduced in size and scope in the interests of economy.

The number of deaths has increased. The civilian population has been reduced in numbers by the withdrawal of men and women for the National Service. The result is a substantial increase in the death-rate, as in the great towns generally. The death-rate among Bolton children under one year has fallen, and is lower than the average rate in the great towns.

There has been a slight increase in tuberculosis. Infectious diseases were more prevalent than in 1939. There was a big increase in cerebro-spinal fever. Fortunately, medical science has reduced the terrors of this disease, and there was only one death in 42 cases. A small outbreak of acute poliomyelitis (infantile paralysis) occurred.

The health record for the year is encouraging in view of all the circumstances of war. The reduction in deaths among infants is a significant indication of the value of the war-time arrangements for the provision of adequate food and care for young children.

I am, Ladies and Gentlemen,

Your obedient Servant,

R. M. GALLYWAY, Medical Officer of Health and School Medical Officer.

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SUMMARY OF STATISTICS. 1940.

COUNTY BOROUGH OF BOLTON.

Position Lat. 53° 35' N., Long. 2° 27' W.
Elevation above sea level 230-ft. to 1,450-ft.
Geological Formation: Boulder Clay and Sand over Coal Measures.
Rainfall (Av. 1887-1940, 42.498") 43.883"
Area in Acres (Land and Inland Water) 15,280
Population (Census 1921) 178,683
,, (Census 1931) 177,250
,, (Estimated Civilian Population, 1940) 161,000
Persons per acre 10.1
Inhabited Houses (Census 1921) 41,825
,, ,, (Census 1931) 46,618
Private Families or Separate Occupiers (Census 1921) 42,635
", ", ", ", (Census 1931) 47,706
New Houses Certified 1940 81
Estimated No. of Houses in the Borough at 31st
December, 1940 53,321
Rateable Value at 31st March, 1941 £1,090,356
Sum represented by a Penny Rate (1940-1941) £4,353 10s. 4d.
Births 2,243
Birth-rate (per 1,000 of population) 13.9
Deaths 2,586
Death-rate (Crude) (per 1,000 of population) 16.0

SUMMARY-Continued.

Average Death-rate (1931-1940)			13.7
Heart and Circulation Death-rate			3.9
Cancer Death-rate			1.7
Respiratory Death-rate			2.7
Phthisis Death-rate			.58
Epidemic Death-rate (seven chief diseases)			.25
Infantile Mortality (Deaths under one year per i live births)	1,000 		56
Diarrhœa Death-rate (Deaths under two years	s per		
1,000 live births)			4.4
Puerperal Death-rate (per 1,000 total births)			4.2
126 COUNTY BOROUGHS AND GREAT TO	WNS :-	_	
Birth-rate (per 1,000 of population)			16.0
Death-rate (per 1,000 of population)			15.8
Infantile Mortality (deaths under one per 1,000 live births)	year 	·	61
Diarrhœa and Enteritis (under two ye Death-rate per 1,000 live births	ears),		5.9
the set provide and a supply to	07.3		
ENGLAND AND WALES :			
Birth-rate (per 1,000 of population)			14.6
Death-rate (per 1,000 of population)			14.3
Infantile Mortality (Deaths under one per 1,000 live births)	year 		55
Diarrhœa and Enteritis (under two yo Death-rate per 1,000 live births	ears), 		4.6

STATISTICS.

Births.

There were 2,243 live births to Bolton residents in 1940. 2,168 of these births were legitimate and 75 illegitimate. The birth-rate per 1,000 of the population was $13 \cdot 9$. 684 births occurred to Bolton residents in Townleys Hospital, and 336 in Haslam Maternity Home.

Stillbirths.

The number of stillbirths in Bolton in 1940 was 112, giving a stillbirth-rate of 47.5 per 1,000 total births. The number of stillbirths per 1,000 total births in the County Boroughs of England and Wales has varied between 41 and 43 since 1931. Bolton has had a rate persistently higher than the average of the county boroughs.

Deaths.

Bolton had 2,586 deaths in 1940, giving a death-rate of $16 \cdot 0$ per 1,000 of the population.

During the year, 734 persons, whose usual place of residence was in the area of this county borough, died outside the borough; of these, 609 died in Townleys Hospital or Fishpool Institution and 53 died in Mental Hospitals.

Non-residents who died in the area numbered 149, of whom 124 died in Bolton Royal Infirmary.

218 Bolton residents died in Bolton Royal Infirmary.

			No. of Deaths	Per cent of total Deaths
INFECTIOUS AND PARASITIC D	ISEASE	s	 255	9.86
Diphtheria			 17	.65
Influenza			 86	3.32
Measles			 8	·30
Pulmonary tuberculosis			 94	3.64
Other forms of tuberculo			 18	.69
Syphilis			 13	• 50
Other infectious and para	asitic d	liseases	 19)	•73

SUMMARY OF THE PRINCIPAL CAUSES OF DEATH, 1940.

		8				
					No. of Deaths	Per cent. of total Deaths
CANCER AND OTHER TU	MOURS	s			303	11.71
Cancer					286	11.05
Tumours					17	·65
RHEUMATISM, DISEASES	OF N	UTRITI	ON, ET	c	53	2.04
Rheumatic fever				· ·	9	·34
Chronic rheumatism	n, oste	eo-arth	nritis, et	tc	7	·27
Diabetes					26	1.00
Exophthalmic goit	re				6	·23
Other diseases					5	.19
DISEASES OF THE BLOO	D ANI	BLOG	DD FORM	MING		
ORGANS					28	1.08
Anæmias					16	.62
Leukæmia, aleukær	mia				7	.27
Other diseases					5	.19
DISEASES OF THE NERV	vous S	System	I AND S	SENSE		
ORGANS					276	10.67
Meningitis			·		5	·19
Diseases of medulla	a and	spinal	cord		6	·23
Cerebral hæmorrha	ge				159	6.14
Cerebral embolism	and th	hromb	osis		67 .	· 2.59
Epilepsy					9	·34
Other diseases					30	1.16
DISEASES OF THE CIRCU	LATOR	RY SYS	TEM		636	24.59
Heart diseases					589	22.77
Arterio-sclerosis					28	1.08
Gangrene			·		5	.19
High blood pressur	e				7	.27
Other diseases					7	.27
DISEASES OF THE RESPI	RATOR	RY SYS	TEM		442	17.09
Bronchitis					. 266	10.28
Pneumonia					137	5.29
Pleurisy					6	·23
Congestion of lung					10	.38
Asthma					14	.54
Other diseases					9	•34
Other diseases						01

9		
	No. of Deaths	Per cent. of total Deaths
DISEASES OF THE DIGESTIVE SYSTEM	101	3.90
Ulcer of the stomach or duodenum	18	·69
Diarrhœa and enteritis	20	.77
Appendicitis	5	·19
Hernia and intestinal obstruction	24	·92
Cirrhosis of the liver	6	·23
Diseases of the gall bladder and ducts	8	·30
Other diseases	20	•77
DISEASES OF THE URINARY AND GENITAL		
Systems	100	3.86
Nephritis	72	2.78
Diseases of the prostate	18	·69
Other diseases	10	·38
THE PUERPERAL STATE	10	.38
DISEASES OF THE SKIN AND CELLULAR TISSUE	10	·38
CONGENITAL MALFORMATIONS	17	·65
DISEASES OF EARLY INFANCY	47	1.81
Congenital debility	8	·30
Premature birth	29	1.12
Injury at birth	4	·15
Other diseases	6	·23
Old Age	206	7.96
DEATHS FROM VIOLENCE	92	3.55
Suicide	28	1.08
Accidents	60	2.32.
Other violent deaths	4	·15
MISCELLANEOUS CAUSES	11	•42

Deaths from Puerperal Causes.

Maternal mortality is the number of deaths of women classed to pregnancy and child-bearing. It is expressed as the rate per 1,000 births (live and still), and is sub-divided into the deaths due to puerperal sepsis, and the deaths due to all other puerperal causes.

There were 10 deaths from puerperal causes in 1940, giving a maternal mortality-rate of $4 \cdot 24$. The rate for England and Wales was $2 \cdot 16$.

	10		
	Deaths	BOLTON Rate per 1000 total births	ENGLAND & WALES Rate per 1000 total births
Puerperal sepsis	4	1.70	$\cdot 52$
Other puerperal causes	6	$2 \cdot 54$	1.64
Total	10	$4 \cdot 24$	$2 \cdot 16$
	14 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		

In addition to the 10 deaths directly due to pregnancy and childbearing there was one death where childbirth was a contributory cause. The death was assigned to lobar pneumonia.

Death-rate of Infants under One Year of Age.

The death-rate of infants is expressed as the number of deaths under one year per 1,000 live births, and is called the infantile mortalityrate.

Bolton's infantile mortality-rate for 1940 was 56. The figure for England and Wales was 55.

Of Bolton's 2,243 births, 2,168 were legitimate and 75 illegitimate.

The infantile mortality amongst the legitimate children was 54, and amongst the illegitimate 93.

Deaths under Four Weeks.

The part of the infantile mortality which occurs in the first four weeks of life is called the neo-natal mortality. There were 23.6 deaths of infants under 4 weeks per 1,000 live births.

The causes of death during the first four weeks of life were as follows :---

CAUSES OF DEATH	Under 7 days	7 and under 14 days	14 and under 21 days	21 and under 28 days	Total under 28 days
Pneumonia (all forms) .	 1	-	-	1	2
Injury at Birth	 4	-	-	-	4
Atelectasis	 5	-	-	-	5
Congenital Malformations .	 5	-	2	-	7
Premature Births	 21	1	3	-	25
Congenital Debility	 2	1	-	-	3
Other Causes	 1	1	2	3	7
Totals	 39	3	7	4	53

GENERAL PROVISION OF HEALTH SERVICES.

LABORATORY FACILITIES.

The local authority employs a whole-time Public Analyst. His report on the work of the department is to be found on page 39.

The pathological examinations made in the Public Analyst's Laboratory during 1940 were as follows :---

		Total	Positive	Negative 1	Doubtful
Sputum for B. tubercu	losis	 193	20	173	-
Diphtheria (Throat sw	abs)	 777	87	679	11
Fever B. typhosus		 8	1	7	-
Paratyphoid A		 8		8	-
Paratyphoid B		 8	6	2	-

The examinations made in the Public Health Laboratory, Manchester, were as follows :---

	Total	Positive	Negative
Milk (Inoculation test for B. tuber	culosis) 80	7	73
Widal reaction	28	14	14
Pleural fluid for T.B	1	1	-
Fæces for typhoid and dysentery	46	17	29
Wassermann reaction :			
Blood	1,290		
Cerebro-spinal fluid	41		
Kahn test	21		
Gonorrhœa:			
Microscopical test	13		
Complement fixation test	266		

Medical Officers of the Department examined 300 sputum specimens for B. tuberculosis, 1,058 slides for the gonococcus, 15 slides for syphilis, 2,006 cultures for the diphtheria bacillus, and 45 cerebrospinal fluids for the meningococcus, in the course of routine clinical work.

PROFESSIONAL NURSING IN THE HOME.

The Bolton District Nursing Association provides nursing in the home for all cases of illness other than certain infectious diseases and maternity nursing. During the year, 2,366 cases were nursed, and these received a total of 95,523 visits. In addition to the general nursing, the staff gave 3,710 treatments to 1,545 first aid cases in factories and work-shops. The nurses were also present at 39 cperations.

The Bolton Corporation makes an annual grant of $\pounds400$ to the funds of the Association. The Public Health Committee pays for any home nursing of the following diseases: puerperal pyrexia, measles, whooping cough, epidemic diarrhœa, ophthalmia neonatorum, tuberculosis and influenzal pneumonia.

Hospitals.

THE BOLTON ROYAL INFIRMARY.

During the year under review the number of cases admitted was 5,412, of whom approximately 28 per cent. were from outside the Borough of Bolton. In addition, 13,525 cases were dealt with as out-patients and 11,553 cases were received into the casualty department. At the end of the year there were 225 patients on the waiting list for admission.

The Edmund Potter Hospital, an auxiliary to the Bolton Royal Infirmary, has 43 beds for females. All the patients who are admitted are sent from the Bolton Royal Infirmary for convalescence. 825 patients were admitted during the year.

The Blair Convalescent Hospital, Bromley Cross, is a voluntary institution with 49 beds for male patients only. 567 cases were admitted in 1940.

TOWNLEYS HOSPITAL.

Townleys Hospital is a general hospital situated in Farnworth just outside the Borough Boundary and serves Bolton and Farnworth, and the townships of Kearsley, Little Hulton, Little Lever, Horwich, Westhoughton and Turton, with an approximate population of 272,000. The hospital has 530 beds and is administered by the Public Health Committee. The following statistical return relates to the year ended 31st December, 1940 :---

Total No. of admissions (including infants born in hospital)	5,165
No. of women confined in hospital	1,085
No. of live births	1,010
No. of stillbirths	76
No. of deaths among children under 4 weeks of age	
(born in hospital)	40
Total No. of deaths among children under 1 year	80
No. of maternal deaths among women admitted to	
hospital for confinement	11
Total No. of deaths	729
Total No. of discharges (including infants born in	
hospital)	4,283
No. of cases whose total stay was for the following periods :	
(a) Under 4 weeks	3,947
(b) 4 weeks and under 13 weeks	886
(c) 13 weeks or more	179
No. of beds occupied (excluding cots in maternity wards) :	
(a) Average during year	379
(b) Highest (1st March, 1940)	449
(c) Lowest 1st January, 1940)	274
	100
No. of operations under general anæsthetic	428
Ante-natal Clinic :	
Total No. of expectant mothers seen	1,108
No. of attendances	5,548

Classification of In-Patients who were Discharged from or who Died in Townleys Hospital during the year.

A. Acute infectious disease (1) \dots \dots \dots 19 B. Influenza (2) \dots \dots \dots \dots \dots 19 4 27 8 Pulmonary (2) \dots \dots \dots \dots \dots 4 Pulmonary \dots \dots \dots \dots 2 Pulmonary \dots \dots \dots \dots $-$ 2 12 9 Non-pulmonary \dots \dots \dots \dots $-$ 3 6 5 D. Malignant disease \dots \dots \dots \dots \dots $-$ 38 90 E. Rheumatism : (1) Acute -rheumatism (rheumatic fever) together with sub-acute rheumatism and chorea \dots \dots \dots $-$ (2) Non-articular manifestations of so- called "rheumatism" (muscular rheumatism, fibrositis, lumbago and sciatica) \dots \dots \dots 1 F. Venereal disease \dots \dots \dots \dots 1 6. Puerperal pyrexia : (a) Women confined in the hospital \dots $-$ H. Other diseases and accidents connected with		DISEAS	E GROU	PS			(und	lren ler 16 of age)		len and omen
A. Acute infectious disease (1) 19 4 27 8 B. Influenza (2) 4 - 21 - C. Tuberculosis : 4 - 21 2 Pulmonary 3 6 5 D. Malignant disease 3 6 5 E. Rheumatism : 3 8 90 E. Rheumatism :								Died		Died
B. Influenza (2) 4 - 21 C. Tuberculosis : - 2 12 9 Non-pulmonary - 38 90 E. Rheumatism : (1) Acute - theumatism (rheumatic fever) together with sub-acute rheumatism 14 - 27 - (2) Non-articular manifestations of socalled ''rheumatism '' (muscular rheumatism, fibrositis, lumbago and sciatica) 1 - 8 - (3) Chronic arthritis - - 5 - 5 G. Puerperal pyrexia : - - 7 1 (a) Women confined in the hospital - - 5 - 5 (b) Other cases - - 286 9 I. Mental diseases : - - 4 - <t< th=""><th>A. A</th><th>cute infectious dise</th><th>ase (1)</th><th></th><th></th><th></th><th></th><th>4</th><th></th><th>8</th></t<>	A. A	cute infectious dise	ase (1)					4		8
2. Tuberculosis : Pulmonary						1000		_		_
Non-pulmonary										
Non-pulmonary		Pulmonary					-	2	12	9
D. Malignant disease		Non-pulmonary					- 1			5
(1) Acute rheumatism (rheumatic fever) together with sub-acute rheumatism and chorea	D. M	lalignant disease						-	38	90
together with sub-acute rheumatism and chorea										
and chorea \dots		(1) Acute rheu	umatism (rheum	atic fer	ver)				
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H. Other diseases and accidents connected with pregnancy and childbirth \dots		(a) Women con	nfined in	the ho	spital		-	-		1
pregnancy and childbirth							-	-	7	1
Image: Mental diseases : (a) Senile Dementia	H. O				ected w	ith				
(a) Senile Dementia		pregnancy and	childbirth	1			-	-	286	9
(b) Other	. M									
Image: Senile decay (3) 10 10 67 1 In respect of cases not included above : Disease of the Nervous System and Sense Organs 81 16 180 69 M. 123 21 247 48 M. 50 15 223 203 D. 12 220 24 M. 12 220 24 M. <			ientia				-	-		-
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from Maternity Wards and not (Mothers — — 1064 — included in above figures Infants 968 — — — — T. Any persons not falling under any of the above	5. M	others and infants	dischars	red				al and a		
included in above figures Infants 968		from Maternity	Wards an	d not	(Moth	ers			1064	
C. Any persons not falling under any of the above							968	- 1	_	-
headings 25 28 40 1	r. A:									
		headings	-S under				25	28	40	1

- (1) Includes—with the exception of Acute Primary and Influenzal Pneumonia, Tuberculosis, Puerperal Pyrexia—all generally notifiable diseases, together with Measles, German Measles, Chickenpox, Whooping Cough and Mumps. Cases of Influenzal Pneumonia, Tuberculosis, Puerperal Pyrexia, and Acute Primary Pneumonia are recorded respectively under Groups B, C, G and M. Cases of Encephalitis Lethargica are entered under Group A if acute and under Group L if chronic.
- (2) Includes Acute Influenzal Pneumonia.
- (3) Confined to cases and deaths in which no more specific diagnosis was practicable.
- (4) Includes suicides, attempted suicides and poisoning cases.

MATERNITY AND CHILD WELFARE.

Midwifery and Ante-Natal Work.

1-DOMICILIARY.

The following figures give a statistical summary of the work in relation to domiciliary midwifery for the year :---

- (a) Ante-natal clinics—Public Health Department (2 weekly).
 412 expectant mothers attended and made 1,128 attendances.
 130 X-ray examinations were made in the department.
- (b) Confinements conducted by midwives.
 992 confinements were conducted by midwives.
 In 331 cases they found it necessary to call in medical aid.
- (c) Confinements conducted by medical practitioners. In addition to the 313 cases where practitioners were called in by the midwives, the doctors conducted approximately 200 confinements.

The following table gives particulars of the domiciliary midwives' work during the year :---

No. of midwives who have practised			32
No. of cases attended			992
Average No. of cases per midwife			31
No. of calls for medical aid			313
Per cent of cases in which medical aid was	soug	ht	31%
No. on the register at the beginning of the	-		31
No. who ceased to practise in Bolton			1
No. on the register at the end of the year			31
-		1 2 2	

In addition to the above, the midwives attended 103 cases as maternity nurses.

The following 376 notifications were received from domiciliary midwives in accordance with the regulations of the Central Midwives Board :---

Medical assistance		 		313
Stillbirths	·	 		45
Artificial feeding		 		12
Death of mother or child	1	 		4
Laying out of dead body	v	 		1
Liable to be a source of		 	<u>)</u>)	1

When a family is not eligible for maternity benefit under the National Health Insurance Acts and the family income falls below a scale approved by the Council, the Public Health Committee pay the midwife's fee for her work at a confinement. Last year 177 such fees were paid.

The Public Health Committee provide home helps for mothers who are unable to pay for assistance in the home during confinement. Home helps were provided in 220 instances. In 86 cases part of the fees were recovered.

MUNICIPAL MIDWIVES.

During the year, the nine midwives appointed booked 787 cases, 741 as midwifery cases and 46 as maternity cases, and they made 645 deliveries, or an average of 71 cases per midwife.

The midwives paid 13,099 ante-natal and post-natal visits to their patients during the year.

2-INSTITUTIONAL MIDWIFERY.

(a) TOWNLEYS HOSPITAL.

Three ante-natal clinics are held weekly. During the year, 1,108 patients attended the clinic, 803 of which were Bolton cases.

The following particulars relate to the cases admitted during 1940 from Bolton and from the county areas served. Approximately 70 per cent. of the cases were from Bolton.

No. of beds used for maternity cases	107
No. of cases admitted	1,186
Average duration of stay in days	18
No. of cases notified as *Puerperal pyrexia	12
*i.e., rise of temperature to 100 · 4°F. for 24 hours,	
or recurrence within that period.	
No. of cases of pemphigus neonatorum	Nil
No. of infants not entirely breast fed whilst in hospital	99
No. of cases of ophthalmia neonatorum	1
No. of maternal deaths	11
No. of infant deaths	117
(a) Stillborn	76
(b) Within 10 days of birth	41

(b) HASLAM MATERNITY HOME.

The following table gives particulars of all cases admitted to the Home in 1940 :---

No. of beds in the Home					17
No. of cases admitted					412
Average duration of stay in days	s				13.3
No. of cases delivered by :-	-				
(a) Midwives					306
(b) Doctors					100
No. of cases in which medic	al assi	istance	was so	ught	
by the midwife					86
No. of cases notified as *Pue	erpera	l pyrex	cia		2
*i.e., rise of temperature	e to 10	0.4°F.	for 24 1	nours,	
or its recurrence w					
No. of cases of pemphigus n					Nil
No. of infants not entirely br				e Home	11
No. of cases notified as opht					Nil
No. of maternal deaths					1
No. of infant deaths :					21
(a) Stillborn					15
(b) Within 10 days of	birth				6

DENTAL TREATMENT FOR EXPECTANT MOTHERS.

During the year, 68 expectant mothers made 358 attendances. Twenty-three mothers were provided with dentures. The charge made varies in accordance with the financial circumstances of the patient.

HEALTH VISITORS.

The following table shows the work done by the Health Visitors :--

VISITS BY HEALTH VISITORS.

Primary birth enquiries	 	2,100
Visits to children, 1-5 years	 	4,833
Primary visits to expectant mothers	 	371
Re-visits to infants under 1 year	 	4,183
Re-visits to expectant mothers	 	214

Visits to puerperal pyre:	xia cases			 6
Visits to ophthalmia cas	es			 38
Stillbirth enquiries				 103
Death enquiries made (u	inder one	year of	f age)	 108
,, ,, ,, (n	naternal)			 6
Visits to midwives' hous	ses			 67
Visits-Children Act				 27
Miscellaneous visits				 2,975
1				
Total Visits				 15,031

DAY NURSERY.

The following are the statistics for the year ended 31st December, 1940 :---

Total number of attendances of children :--

Whole day under 3 years .			 7,135
Whole day 3 years and ov	er		 747
Total whole day			 7,882
Half day under 3 years		·	 1,090
Half day 3 years and over			 139
Total half day			 1,229
Average for year (whole day)			 31.75
" " " " (half day)			 21
No. of days open during the ye	ear :—		
Whole day			 248
Half day			 50
Actual No. of children who have	ve attended	1	 46
Average No. of attendances pe	r child		 198

MASSAGE AND ARTIFICIAL SUNLIGHT TREATMENT FOR INFANTS.

Treatment is provided for any debilitated and rickety children who are in attendance at the Child Welfare Centres. The treatments are given in the Massage and Light Clinic in the Public Health Department. The number of massage cases treated in 1940 was 113, and these received a total of 2,368 treatments.

The number of light cases treated in 1940 was 299, and these received a total of 2,112 treatments.

CLOSET ACCOMMODATION.

The position of Bolton as regards closet accommodation at the close of 1920 and the close of 1940 is shown in the following table :---

De	c. 31st, 1	920	Dec. 31st, 1940		
 	11,062			42,767	
 	15,219			12,612	
 	6,302			400	
 	10,540			580	
 	··· ··· ··· ···	11,062 15,219 6,302	11,062 15,219 6,302	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	

SANITARY INSPECTION.

The nature and extent of the work done by the Sanitary Inspectors is shown in the following statement :—

INSPECTIONS.

Complaints investigated:				
From Public			 	603
From Factory Inspector			 	14
Closet conversions			 	80
Drains			 	387
Caravans			 	42
Keeping of animals			 	79
Newly infected houses			 	788
Water supplies			 	18
Smoke observations			 	148
Common Lodging-houses			 	239
Houses let in lodgings			 	64
Factories with mechanical po	wer		 	146
Factories without mechanical	l power	r	 	40
Workplaces			 	88
Offensive trades premises			 	150
Butchers' shops and stores			 	3,421
Slaughterhouses			 	1,172

Bakehouses	792
Fish Friers' premises	574
Premises where food is prepare	d 1,411
Dairies, cowsheds and milksho	ps 636
Markets	475
Shops (Shops Act)	309
Theatres, Cinemas, etc	48
Ice Cream premises	123
Houses inspected	1,021
Houses revisited	5,868
Miscellaneous	8,661

ACTION TAKEN.

Informal notices serv	ed or	letters	written	 	1,473
Verbal notices				 	1,093
Legal notices served				 	119

RESULT OF ACTION.

DWELLINGS.

			 319
			 1,519
			 307
			 249
			 278
1			 34
o open			 496
			 2
			 130
			 187
l			 27
			 3
	 l o open l	··· ··· ··· ··· L ··· o open ··· ··· ··· ··· L ···	

DRAINAGE, CLOSETS, ASHPITS, ETC.

Drains cleansed from obstruction		· ·	 179
Drains and intercepting chambers p	provid	led	 5
Drains re-laid, repaired or trapped			 184
Drains disconnected from sewer			 39
Yards drained, paved or repaired			 158
Additional W.C's provided			 19
W.C's reconstructed or repaired			 157
New pedestals provided			 83
Flushing cisterns provided or repair	red		 108
Privies and pail closets converted			 . 3
Waste water closets converted			 76
*Ashpits abolished			 1,702
Dustbins provided			 3,404

*Includes ashpits abolished incidental to the erection of domestic air raid shelters.

VARIOUS.

Smoke nuisances abated				1
Nuisances from animals abated				8
Offensive accumulations remove	d			59
Additional water taps provided				2
Improvements in factories, shop	s and for	od prei	nises	470
Cowshed improvements				6
Dairy improvements				4
Miscellaneous				1,518
				11,736

DISINFECTIONS.

Houses disinfected	 	 	 1,005
Articles disinfected	 	 	 4,698
Articles destroyed	 	 	 273

PLACES UNDER INSPECTION.

Common lodging-houses			 10
Houses let in lodgings			 • 111
Factories without mechanical pow	er		 219
Factories with mechanical power			 797
Factory chimneys			 259
Bakehouses			 408
Fish Friers' premises			 198
Premises where food is prepared			 442
Outworkers' premises			 • 10
Offensive trades			 24
Slaughterhouses (in actual use)			 4
Cowsheds			 259
Milk shops			 596
Theatres, Cinemas, etc			 29
Public Sanitary Conveniences			 31
Travelling vans		`	 41

Common Lodging-houses.

During the year one lodging-house was closed voluntarily and five others were refused re-registration on grounds of unfitness. One keeper appealed to the Courts against the refusal to register, but the appeal was withdrawn and the house closed. In another case where the keeper failed to close the premises proceedings were instituted under Sec. 236 of the Public Health Act, 1936; a fine of $\pounds 3$ was imposed and the house closed.

The number of registered common lodging-houses in Bolton at the end of the year was 10. Nine of these are used by males only and accommodate a total of 471 men. The other is used exclusively by women and accommodates 40.

INSPECTION AND SUPERVISION OF FOOD.

MILK.

The Milk and Dairies Order, 1926.

Cowkeepers on register, December, 1939	'	 112
" added to register during 1940		 2
" discontinued during 1940		 4
,, on register, December, 1940		 110
Cowsheds on register, December, 1939		 262
" added to register during 1940		 2
" discontinued during 1940		 5
" on register, December, 1940		 259
Number of cows provided for in the cowshed	s	 3,014
Average number of cows kept during the year	r	 2,739
Number of dairies and premises of milk purv	eyors	 787

Milk (Special Designations) Orders, 1936 and 1938.

The following licences were granted under these Orders during 1940 :--

Producer's licence to use the designation "Tuberculin Tested "	2
Supplementary licence to use the designation "Tuberculin Tested"	1
Dealer's licence to use the designation "Tuberculin Tested "	1
Producer's licence to use the designation " Accredited"	15
Supplementary licence to use the designation "Accredited"	3
Dealer's licence to use the designation "Pasteurised " (Licence in respect of a Pasteurising establishment).	1
Supplementary licence to use the designation "Pasteurised"	1

MEAT.

The following table shows the number of animals slaughtered and inspected at the public abattoirs and private slaughterhouses in the Borough, with the diseased conditions grouped under two heads :---

- (1) Carcases affected with disease other than tuberculosis; and
- (2) Carcases found to be affected with tuberculosis only.

Carcases Inspected and Condemned.

	Cattle excluding Cows	Cows	Calves	Sheep and Lambs	Pigs
Total number killed and inspected	5,305	6,042	1,500	64,304	7,900
All Diseases except Tuberculosis :		North State			•
Whole carcases condemned	1	20	18	56	9
Carcases of which some part or organ was condemned	684	1,470	-	643	34
Percentage of the number inspected affected with disease other than tuber- culosis	12.9	24.6	1.2	1.0	·54
Tuberculosis only :	-				
Whole carcases condemned	10	129	-	-	20
Carcases of which some part or organ was condemned	160	1,254	_	_	443
Percentage of the number inspected affected with tuber- culosis	3.20	22.88			5.86

LEGAL PROCEEDINGS DURING 1940.

DATE	OFFENCE	RESULT
29/ 2/40	FOOD & DRUGS ACT, 1938, SEC. 3.: Selling butter not of the nature, substance and quality demanded	Fined £10/0/0.
21/ 3/40	PUBLIC HEALTH ACT, 1936, SEC. 93: Premises in such a state as to be prejudicial to health or a nuisance	Withdrawn after adjournment. Work done by owner.
21/ 3/40	PUBLIC HEALTH ACT, 1936, SEC. 236 : Appeal against refusal to register common lodging-house	Appeal withdrawn, Lodging-house closed.
5 /· 4 /40	FOOD & DRUGS ACT, 1938, SEC. 3: Selling lard not of the nature, sub- stance and quality demanded	Fined £5/0/0.
17/ 5/40	FOOD & DRUGS ACT, 1938, SEC. 3.: Selling milk not of the nature, sub- stance and quality demanded	Fined £3/0/0.
17/ 5/40	do.	Fined £2/0/0.
17/ 5/40	do.	Fined £2/0/0.
24/ 5/40	FOOD & DRUGS ACT, 1938, SEC. 13 : Seventeen contraventions of the above section	Fined £255/0/0.

Legal Proceedings during 1940-continued.

DATE	OFFENCE	RESULT
1/ 7/40	MILK & DAIRIES ORDER, 1926, ARTICLE 28: Returning churns not properly cleansed	Fined £43/0/0
0/10/40	FOOD & DRUGS ACT, 1938, Sec. 3: Selling distilled water not of the nature, substance and quality demanded	Fined £3/0/0.
0/10/40	PUBLIC HEALTH ACT, 1936, Sec. 236 Keeping a common lodging-house without registration	Fined £3/0/0.
7/12/40	TUBERCULOSIS ORDER, 1938 : Failing to notify cow suffering from disease of the udder	Fined £2/0/0.

NOTIFIABLE INFECTIOUS DISEASES.

PREVALENCE AND MORTALITY.

Below are shown the number of cases of notifiable diseases notified in Bolton in 1940 and the number of deaths resulting from each of these notifiable diseases.

NOTIFIABLE DISEASES (OTHER THAN TUBERCULOSIS) DURING THE YEAR 1940.

Disease.		Total Cases Notified.	Total Deaths.
Smallpox		 <u> </u>	 _
Scarlet Fever		 538 .	 -
Diphtheria		 235	 17
Enteric Fever (including			
Paratyphoid)		 16	 1
Relapsing Fever (Undula	ant)	 1	 -
*Pneumonia		 217	 137
Puerperal Pyrexia		 8	 • 4
Cerebro-spinal Fever		 42	 1
Acute Poliomyelitis		 14	 4
Acute Polio encephalitis		 -	 · _
Encephalitis Lethargica		 	 4
Dysentery		 -	 -
Ophthalmia Neonatorum	ı	 7	 -
Erysipelas		 47	 -
Malaria		 -	 -
Measles		 2,408	 8
Whooping Cough		 563	 5

*The cases notified are Acute Primary and Acute Influenzal, but the deaths include all forms of Pneumonia.

Deaths from Infectious Diseases.

The deaths in Bolton attributed to the various epidemic diseases are shown in the following table for the years 1931 to 1940 :---

CAUSES OF DEATH FROM EPIDEMIC DISEASES.

	-	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	
Smallpox		-	_	_		-	-	-	-	-	-	
Scarlet Fever		2	1	10	2	3	1	-	3	.1	-	
Diphtheria and Mem Croup	b.	2	3	6	11	5	. 4	23	22	11	17	
Enteric Fever		_	-	_		-	-	1	1	-	1	
Measles		24	9	14	12	6	9	4	10	3	8	
Whooping Cough		14	11	9	2	13	8	14	1	4	5	
Diarrhœa and Enter under 2 years of ag		17	12	17	10	9	8	4	3	14	10	
Erysipelas		7	3	7	10	5	6	5	1	1	-	-
Puerperal Sepsis		3	3	5	1	7	1	2	4	3	4	
Cerebro-spinal Fever		7	5	3	2	1	2	2	1	6	1	
Encephalitis Letharg	gica	6	3	2	5	5	7	4	7	4	4	
Influenza		110	46	165	27	55	35	104	24	42	86	

BOROUGH ISOLATION HOSPITAL-ADMISSIONS AND DISCHARGES.

	No	No. of Patients suffering from the following Diseases :					
No. of Patients.	Scarlet Fever.	Diph- theria.	Pul- monary Tuber- culosis.	Other Tuber- culous Diseases.	Other Diseases.	Total.	
Remaining, Dec. 31st, 1939	. 24	19	14			57	
Admitted in 1940	. 393	236	30	1	92	752	
Total No. treated, 1940	417	255	44	1	92	809	
Discharged in 1940 .	388	214	35		81	718	
Died in 1940		16	9	1	9	35	
Remaining, Dec. 31st, 1940	29	25	-	-	2	56	

DEATHS FROM CANCER, 1940.

The following table shows the age and sex distribution of all persons who were certified as having died of cancer in Bolton in 1940. The table shows also the localization of the disease.

												AG	E	1						
LESION	S	EX	0 to	5 to	10 to	15 to	20 to	25 to	30 to	35 to	40 to	45 to	50 to	55 to	60 to	65 to	70 to	75 to	80 to	85 and
	М.	F.	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	85
BUCCAL CAVITY : Pharynx	2															1	1			
Pharynx		1												1						
Tongue	.7														1	2	2	2		
Other Sites	5														1	2	2			
		3													3	-				
TOTAL-BUCCAL CAVITY	14			,											2	5	5	2		
	-	4												1	3					
DIGESTIVE ORGANS : Intestines	14										2		3	-	_		-	2	-	
	9	27									1	-	_	-	_	-	5	-	-	•••
Liver	9	3								1		-		1	1	2	2	1	-	
	6														_	1		-	_	
Æsophagus	-	1												-	-	-	1	-		
	5											1			1	1	-		-	
Pancreas	-	3	-		-		-		-	-	-	-	-	-	1	_	-	-	-	
a second constrained and second the	12														5	-	-	_	1	
Rectum	-	3												1		1	1			
Stamod	40									2	2	4	3	8	4	10	5	2		***
Stomach		20					1						1	3	3	3	5	1	2	1
TOTAL-DICESTIVE ORGANS :	86									3	4	6	6	11	17	17	15	6	1	
DIGESTIVE ORGANS :	1000	57					1				1	1	3	7	12	10	13	6	2	1

DEATHS FROM CANCER, 1940.-continued.

AGE AND SEX DISTRIBUTION AND LOCALIZATION OF DISEASE.

	1		-				_				A	GE			_					_
LESION	S	EX	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	and
	М.		to 5	to 10	to 15	to 20	to 25	to 30	to 35	to 40	to 45	to 50	to 55	to 60	to 65	to 70	to 75	to 80	to 85	85 at
RESPIRATORY ORGANS :			T	-	-	-		_	_	-	-	-	-		-	4	-	_	1	
Larynx	8											-			-	-			-	
	11																			
Lungs		3							-				-	1	-	1	-		-	
	19		1		-	-	-	-	1	-	-	-		-	_	-	-	-	-	
COTAL-RESPIRATORY ORGANS		3					-	-	-			-		1		1	-	1	-	
FEMALE GENITAL ORGANS :	-		F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Uterus		21								1	3	1	-	_	_	2	3	2	2	
OVARY	-	10										-	2	-	2	2	-	-		
Other Sites	-	1	1														1			
FOTAL,—FEMALE GENITAL, ORGANS		32								1	3	2	8	1	5	3	4	3	2	
BREAST																				
		39						1		4	4	5	6	5	3	3 4	3	3		
MALE GENITO-URINARY ORGANS : Prostate	4		T	-			-	-	-			-	-	Ϊ,		. 3			-	
Caratum	2		-						-		-	-	-	-	-					
Other Cites			-						-				-	-		-	-			
TOTAL-MALE GENITO-		-	╞			-					-		-	-			-	-	-	-
URINARY ORGANS	. 7													. 1	ı	. 4	ŧ	. 1	1 1	ı
URINARY ORGANS	5				• • • • •								. 1	l		3	•	1		
		4			1						. 1	1			-	1		1		
SKIN	3				• • • •	• •••											1	2		• •
								• • • •												
OTHER OR UNSPECIFIED ORGANS :	1	5	-				1	• •••		• • • •		•	1			1	2			
		8									1	•	1	•	4		•	2		
	139	9	-				1			1	3	4	81	0 1	52	83	32	31	0	3.
TOTAL-FEMALES		147	1		1.			1	1		6	9	91	7 1	92	41	82	31	3	4
TOTAL-BOTH SEXES .		286	ſ							-				73	1		1		T	7

TUBERCULOSIS.

The total number of new cases notified in 1940 was 141 as compared with 139 in 1939. Ninety-seven of the new cases were pulmonary tuberculosis and 44 were non-pulmonary tuberculosis.

Age and sex distribution of cases of tuberculosis notified in Bolton in 1940.

						AGES						
Sex	0	1	5	10	15	20	25	35	45	55	ds ds	Total
	to	to	to	to	to	to	to	to	to	to	an var	
	1	5	10	15	20	25	35	45	55	65	65 and upwards	
Males	_	_			16	4	12	15	7	14	2	70
Females	1	-	-	2	4	5	7	2	3	3	-	27
Total	1	-		2	20	9	19	17	10	17	2	97

PULMONARY TUBFRCULOSIS NOTIFICATIONS.

NON-PULMONARY TUBERCULOSIS NOTIFICATIONS.

Sale As						AGES						
Sex	0	1	5	10	15	20	25	35	45	55	rds	Total
3742 S. S. S.	to	to	to	to	to	to	to	to	to	to	an	
	1	5	10	15	20	25	35	45	55	65	65 and upwards	
Males	1	3	1	2	5	5	4	1	_	2	-	24
Females	-	1	3	3	5	1	3	3	1	-	-	20
Total	1	4	4	5	10	6	7	4	1	2	-	44

DEATHS FROM TUBERCULOSIS.

One hundred and twelve Bolton residents were certified as having died of tuberculosis during 1940. This compares with 102 in 1939.

Forty-one of these deaths took place in institutions.

The age and sex distribution of those who died from tuberculosis are given in these tables :---

	Ages											
Sex		5	10	15	20	35	45	55	sb.	Total		
	Under	to	ar									
	5	10	15	20	35	45	55	65	65 and upwards			
Males	_	1	_	1	15	10	11	7	5	50		
Females	1	-	2	7	21	7	6	-	-	44		
Total	1	1	2	8	36	17	17	.7	5	94		

PULMONARY TUBERCULOSIS DEATHS.

NON-PULMONARY TUBERCULOSIS DEATHS.

				A	GES					
Sex	Under 5	5 to 10	10 to 15	15 to 20	20 to 35	35 to 45	45 to 55	55 to 65	65 and 'upwards	Total
Males Females	1 3		-	2 3		2		2 1	1	6 12
Total	4	-	-	5	3	2	-	3	1	18

In 15 cases the disease had not been notified during life. 10 of these cases died in institutions, and the diagnosis was made after death.

The death-rate from tuberculosis of all forms during 1940 in certain Lancashire County Boroughs was as follows :---

Bury	 	•40	St. Helens	 	.77
Preston	 	·65	Wigan	 	·80
BOLTON	 	·69	Burnley	 	·81
Blackburn	 	.70	Rochdale	 	1.09
Oldham	 	•75	Manchester	 	1.17
Warrington	 	.76	Salford	 	1.27

TUBERCULOSIS DISPENSARY.

The dispensary is open every week-day (except Saturday) from 9 a.m. to 12 noon and on Monday and Friday from 2 p.m. to 5 p.m. The work done at the dispensary is shown by the following figures :-

Total attendances	. 2,099
Total number of patients sent for consultation	. 303
The results of these consultations were as follows :-	_
Number found to have pulmonary tuberculosis	. 87
Number found to have non-pulmonary tuberculosi	s 42
Number of cases kept under observation for	r
suspected pulmonary tuberculosis	. 6
Number of cases kept under observation for	r
suspected non-pulmonary tuberculosis	. –
Number in whom no evidence of tuberculosis was	S
found	. 168
Visits by tuberculosis nurse	. 1,243
Number of specimens of sputum examined	. 296
Total number of cases on the dispensary register :-	-
Pulmonary tuberculosis	. 310
Non-pulmonary tuberculosis	. 187
Total	497

X-ray examinations made in	conne	ction	with	
dispensary work				530
Total number of cases on the noti	fication	n regist	er :—	
Pulmonary tuberculosis				407
Non-pulmonary tuberculosis				199
Tot	al			606

TREATMENT OF TUBERCULOSIS.

Three hundred persons applied for treatment in 1940. Two hundred and thirteen of these were cases of pulmonary tuberculosis and 87 of non-pulmonary tuberculosis. Three cases were admitted to hospital for observation.

The treatment given was as follows :---

Residential treatment		 	141
Domiciliary treatment		 	145
Out-patient treatment		 	11
	1.		

No patient requiring residential treatment was refused such treatment.

The following table summarizes the residential treatment given during 1940.

INSTITUTION.	Beds.	Ad	Under Treat- ment 31st Dec		
		Total	Insured	Uninsured	
Wilkinson Sanatorium	30	60	51	9	25
Borough Hospital	24	30	23	7	-
•Heswall	6	-	-	-	-
*Bolton Royal Infirmary *Robert Jones and Agnes Hunt Orthopædic Hospital,	-	31	10	21	1
Oswestry Children's Orthopædic Hospi-	-	10	10	-	10
tal, Marple *Blencathra Sanatorium, Threl-	-	7	-	7	6
keld		1	1	-	2
*Papworth Village Settlement *Middleton in Wharfedale Sana-	-	1	1	-	-
torium	-	1	1	-	-

ACCOMMODATION PROVIDED BY LOCAL AUTHORITY WITH NUMBER OF PERSONS ADMITTED FOR TREATMENT DURING THE YEAR 1940.

*Paid for per user.

Ultra-Violet Ray Treatment.

During the year, 134 cases were referred to the ultra-violet ray department, the majority of these cases being of gland tuberculosis. 100 were given ultra-violet ray treatment, 28, Kromayer, 5 Kromayer and ultra-violet ray, and 1 radiant heat.

Artificial Pneumothorax.

Twenty-two patients attended the dispensary at intervals varying from two to four weeks. In addition to two afternoon sessions for this work, it has been found necessary to hold an evening session once in three weeks so that the patients who are working may continue to receive the treatment. Only a small percentage of patients are suitable for the treatment, as it depends on the resting of the diseased lung by collapsing it, and is therefore only applicable to patients with the other lung healthy, but the results again encourage its use wherever possible.

Examination of Contacts.

During the year, 41 contacts were examined at the dispensary or in the home; of these, 3 proved to be tuberculous. It is felt that by an extension of this work the aim and duty of the dispensary will be more fully discharged.

ASSISTANCE GIVEN TO NECESSITOUS TUBERCULOUS PATIENTS.

1.	Total number of patien	otal number of patients assisted					
2.	Average time receiving	assista	ance		7 months		
3.	Amount of milk given				20,932 pints		
4.	Malt and oil given				121 lbs.		

VENEREAL DISEASES.

The tables on pages 36, 37 & 38 show the work carried out at the Bolton Treatment Centre.

Return relating to all persons who were treated at the Treatment Centre
at Bolton Public Health Offices during the
year ended the 31st December, 1940.

	Syphili		Sof Chan		Gonorrha	ea	No Vener undiag condit	eal or nosed		TOTAL	s
	М.	F.	м.	F.	М.	F.	М.	F.	М.	F.	Total.
1. Number of cases on 1st January under treatment or observation	115	141			181	68	25	15	321	224	545
2. Number of cases removed from the register during any previous year which returned during the year under report for treatment or observation of the same infection	6	5			6	1			12	6	18
3: Number of cases dealt with for the first time during the year under report (exclusive of cases under Item 4) suffering from :											
Syphilis, primary , secondary , latent in 1st	9 7 (1)	1 5							9 7 (1)	1 5	$\begin{array}{c}10\\12\end{array}(1)$
year of infection , all later stages , congenital Soft Chancre	1 11 4	1 17 7		 					1 11 4	1 17 7	2 28 11
Gonorrhœa, 1st year of infection later Non-venereal conditions				····	166 (2) 1	56 1	 125	112	$ \begin{array}{c} 166 \\ 1 \\ 125 \end{array} $	 56 1 112	222 (2) 2 237
Conditions remaining undiagnosed at 31st December								2		2	2.57
4. Number of cases dealt with for the first time during the year under report known to have received treatment for the same infection, or to have been under											
observation, at other Centres	3	1			4	4			7	5	12
TOTALS OF ITEMS 1, 2, 3, AND 4	156 (1)	178	3		358 (2)	130	150	129	664 (3)	437	1101 (3)

.

	Syphill	s	Sol		Gonorr	hœa	Vener undiag	eal or nosrd		TOTAL	s
	м.	F.	м.	F.	М.	F.	M.	F.	М.	F.	Total
 Number of cases dis- charged after comple- tion of treatment and final tests of cure or after diagnosis as non- venereal	8	6			70	5	125	114	203	125	328
Syphilis, primary	5	3							5	3	8
" secondary … " latent in 1st	4	5							4	5	. 9
year of infection							• •••		19		
" all later stages… " congenital …	12 3	. 19							12 3	19	31 12
Soft Chancre											
Gonorrhœa, 1st year of infection					64	20			64	20	84
7. Number of cases which						3				3	3
 ceased to attend after completion of treatment but before final tests of cure	2 12 (1)	1			13 33 (:				15	(3) 18	16 64 (3)
ing under treatment or observation on 31st Dec.	110	131			178	88	24	15	312	234	546
TOTALS OF ITEMS 5, 6, 7, 8 AND 9 (These totals should agree with those of Items 1, 2, 3 and 4)	156 (1)	178			358 (:	2) 130	150	129	664	(3) 437	1101 (3)
 10. Number of attendances:- (a) for individual attention of the medical officer(s) (b) for intermediate treatment, e.g., irrigation, dressing 	2755 (4) 19	2572			3553(12 1287 (6		411		6719 (1 1417		11899 (16) 1495 (6)
TOTAL ATTENDANCES	2774 (4)	2578			4840 (1)	5) 2159	522	521	0130 (2	-2) 0208	13394 (22)
 In-patients :— (a) Total number of persons admitted for treatment during the year (b) Aggregate number of "in-patient days" of treat- ment given 	`										

		nder year	1 and un 5 yea		5		l une yea				over		. '	Totals	
	м.	F	м.	F.		м.	1	F.	M	t.	F		М	. F	F
2. Number of cases of con- genital syphilis in Item 3 above classified according to age periods				1			4	ł .	4		2		4		7
			Mic	rosco	opica	al		-			Oth			diagno	sis
		for Syl	philis		f	or G	ono	rrho	ea	_			Ven Dise	ase	
13. Pathological Work :		for Syphilis													
examined at, and by th medical officer of th															
medical officer of th Treatment Centre Statement showi during t	e ng tl he y in v	he serv ear, cla	nssified he pati	ace	core s re	din	g to ed.	The The			s	_	ntr	e	
medical officer of th Treatment Centre Statement showi during t	ng tl he y in v	he serv ear, cla	ices re assified	ace	core	din	the g to	Ti th				Macclesfield D		e Tot:	al
medical officer of th Treatment Centre Statement showi during t Name of County or County Boro (or Country in the case persons residing elsewhere	e ng tl he y in v ough e of than ch	he serv ear, cla vhich t	ices re assified he pati	ace	core s re	din	the g to ed.	The The	ie a	rea	s	_	ntr		al
medical officer of th Treatment Centre Statement showi during t Name of County or County Boro (or Country in the case persons residing elsewhere in England and Wales) : A. Number of cases from eau area included under the fol	e ng tl he y in v ough e of than ch	he serv ear, cla vhich t	ices re assified he pati	Manchester Manchester	core s re	Salford Salford	the g to ed.	The The	e a nega	rea	s	Macclesfield	ntr		
medical officer of th Treatment Centre Statement showi during t Name of County or County Boro (or Country in the case persons residing elsewhere in England and Wales) : A. Number of cases from each area included under the fol ing headings in Item 3 :	e ng tl he y in v ough e of than ch	he serv ear, cla which t	ices re assified he pati CC CC T ^{ance}	Manchester Manchester	Liverpool a.	sid salford	Blackburn Blackburn	1 Blackpool	ie a migan	Bury	Rochdale	Macclesfield	Hyde	Tota	
medical officer of th Treatment Centre Statement showi during t Name of County or County Boro (or Country in the case persons residing elsewhere in England and Wales) : A. Number of cases from ead area included under the fol ing headings in Item 3 :	e ng tl he y in v ugh e of than ch llow-	he serv ear, cla which t uotlog 46	ices reassified he pation CC SC Tancs Tancs Tancs 15 (1)	Manchester	: Liverpool a1	sid salford	Blackburn Blackburn	1 Blackpool	ie a migan	Eean Bury	: Rochdale 6	L Macclesfield	: Hyde	Tot: 63	(1
Mame of County or County Boro (or County or County Boro (or Country in the case persons residing elsewhere in England and Wales) : A. Number of cases from ea- area included under the fol ing headings in Item 3 : Syphilis Soft Chancre	e ng th he y in v in v ugh e of than ch low- 	he serv ear, cla which t uotlog 46 	ices re assified he pati JJ JJ S Sure I 15 (1)	Manchester	: : Liverpool	salford Salford	Blackburn Blackburn	I Blackpool	ne a ne a ne a ne a	Bury .	: : Rochdale 6	: I Macclesfield	: : Hyde	Tot: 63	(1

NOTE.—Service Cases are included in the above figures and the numbers so included are shewn in brackets.

ANNUAL REPORT of the PUBLIC ANALYST AND BACTERIOLOGIST

for the year ended December 31st, 1940.

The following is the report on the work carried out in the Borough Laboratory.

Summary.	Number of Samples.
Food and Drugs	. 569
Bacteriological Examinations for the Public Healt	h
Department	. 978
Bacteriological Examinations of Milk	206
Analyses for the Waterworks Committee	. 753
Examinations for Townleys Hospital	. 47
Royal Infirmary (Milks for Chemical and Bacteric)-
logical Examination)	11
Food Executive Officer	11
Water Examinations for Turton Urban Distric	t
Council	15
Miscellaneous Analyses	. 106
	>
	2,696

PUBLIC HEALTH COMMITTEE.

FOOD AND DRUGS.

			Total	G	enuine	Ad	ulterate	ed A	Per cent Adulterated	
Milk			268		255		13		4.85	
Tinned Cre	am		4		4		-		-	
Butter			13		10		3		23.08	
Margarine			5		5		-		-	
Cheese			10		10		-		-	
Lard			9		7		2		$22 \cdot 22$	
Tea			1		1		-		-	
Coffee and	Esser	nces	12		12		-		-	
Cocoa and	Esser	nces	9		9		-		- 75 5	

3

	I	otal	(Genuin	e Ad	lulterat	ed A	Per cent. dulterated
Jam		11		11		-		
Meat Products		9		9				-
Shredded Suet		8		6		2		$25 \cdot 00$
Cereals		39		39		-		-
Condiments and S	Spices	52		52		-		-
Cakes and Cake	-							
Mixtures		11		11		-		-
.Sweets		11		11		-		-
Drugs		55		53		2		3.64
Dried Fruits		6		6		· ·		-
Baking Powders		8		6		2		25.00
Lemon Curd		1		1		-		-
Mincemeat		1		1		-		
Table Jelly		5		5				-
Sardines		6		6		-		-
Ground Nuts		7		7	·	-		-
Miscellaneous		8		8		-		-
	-	= 00		EAE		-		4 99
		569		545		24		4.22
	-			-				

MILK

Total examined.	Genuine.	Adulterated.
268	 255	 13

All the samples were examined for preservatives and colouring matter. In no case was any found.

The satisfactory quality has been maintained, the average being (exclusive of skimmed milk) for the year :--

Milk Fat.	Nou-	fatty Solids.	Water.
3.76%		8.75%	 87.49%

Minimum limits :---Milk Fat 3.00%; Non-fatty Solids 8.50%

BACTERIOLOGICAL EXAMINATIONS.

(PUBLIC HEALTH DEPARTMENT).

		Total	Po	sitive	. Ne	egative.	D	oubtful.
Tuberculosis		 193		20		173		0
Diphtheria		 777		87		679		11
Fever B. Typho	osus	 8		1		7		0
Paratypho	id A	 8		0		8		0
Paratypho	id B	 8	÷	6		2		0

BACTERIOLOGICAL EXAMINATION OF MILK.

PASTEURISED MILK.

No. of samples examined		 	 11
Average Agar Count per 1	ml.	 	 45,200

TUBERCULIN TESTED MILK.

No. of samples examined	22
No. of samples which satisfied methylene blue test	22
No. of samples containing B. Coli in 1/100th ml	1

ACCREDITED MILK.

No. of samples examined	173
No. of samples which satisfied methylene blue test	169
No. of samples containing B. Coli in 1/100th ml	15

The four samples which did not satisfy the methylene blue test decolourised the methylene blue in 4, $3\frac{1}{2}$, $3\frac{1}{2}$, $3\frac{1}{2}$ hours respectively.

MISCELLANEOUS EXAMINATIONS.

. 4	Urines.
7	Waters.
40	Swabs for Anthrax (Cattle).
35	Bath Waters.
38	Milks for Townleys Hospital.
9	Ice Creams for Townleys Hospital
11	Kit Washings.
2	Feeding Stuffs.
1	Bacon.

3)

EXAMINATIONS FOR WATERWORKS COMMITTEE.

Routine water examinations	 		752
Deposit from filter bed	 	 	1

B. COLI.

> 0 Good. 1-2 Tolerable. 2-4 Unsatisfactory. Above 4 Bad.

No. of samples with 0 Typical B. Coli per 100 mils. ... 220 or $94 \cdot 42\%$ No. of samples with 1 Typical B. Coli per 100 mils. ... 2 or 0.86%No. of samples with 2 Typical B. Coli per 100 mils. ... 1 or 0.43%No. of samples with 4 Typical B. Coli per 100 mils. ... 10 or 4.29%

AGAR COUNT (Total No. of Organisms of all types per 1 ml.).

Number	of samples examined	 	 233
Average	Agar Count per 1 ml.	 	 7

C1 WELCHII.

Negative in 50 mils.	 	 	226	or	97.00%
Positive in 50 mils.	 	 	7	or	3.00%

During the year, the following samples (approximately 6 per month) have been taken from the proximity of dead ends in the mains, i.e., at the places where the water might reasonably be expected to be of the worst quality.

The standard adopted for this piped supply is that suggested by the Ministry of Health, viz.:--

Number of B. Coli per 100 mils.

0 Highly satisfactory.

1-2 Satisfactory.

3-10 Suspicious.

Above 10 Unsatisfactory.

B. Coli.

No. of samples with 0 Typical B. Coli per 100 mils	65 or	94.20%
No. of samples with 1 Typical B. Coli per 100 mils	1 or	1.45%
No. of samples with 2 Typical B. Coli per 100 mils	2 or	2.90%
No. of samples with 3 Typical B. Coli per 100 mils	0 or	0.00%
No. of samples with more than 10 Typical B. Coli per		
100 mils	1 or	1.45%
AGAR COUNT (Total No. of Organisms of all types per 1	l ml.).	

Number of samples examined	 	 69
Average Agar Count per 1 ml.	 	 13

C1. WELCHII.

Negative in 50 mils.	 	 	65	or	94.20%
Positive in 50 mils.	 	 	4	or	5.80%

ROYAL INFIRMARY.

11 Milks for Chemical and Bacteriological Examination.

CLEANSING COMMITTEE.

2 Fish Meals. 1 Meat Meal.

GAS COMMITTEE.

1 Water for Bacteriological Examination.

FOOD EXECUTIVE OFFICER.

7 Sausage.
1 Fish Ground Bait.
1 Butter.
1 Cream Trifle.
1 Cream Cake.

TURTON URBAN DISTRICT COUNCIL.

15 Waters for Chemical and Bacteriological Examination.

Meteorological Summary, 1940

(Compiled at Queen's Park Observatory by E. HENDY, P.R.Met.S.).

Total		$\begin{array}{c} 3\cdot013\\ 2\cdot709\\ 3\cdot135\\ 3\cdot273\\ 1\cdot599\\ 1\cdot118\\ 2\cdot301\\ 2\cdot363\\ 7\cdot723\\ 5\cdot202\\ 5\cdot202\end{array}$	43.883 3.657
	Date	882628611238	
Sunshine	Maximum in one day hours	5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	
	Total Amount hours	27.3 22.3 885.7 885.3 885.3 885.3 885.3 885.3 117.7 117.7 117.7 28.0 28.7 28.7	1234.3
	Date	21 12 17, 18 17, 18 28 28 28 28 28 28 28 28 28 28 12, 13	
Absolute extremes of Temperature	Lowest 。	$\begin{array}{c} 6.9\\ 19.0\\ 232.2\\ 231.2\\ 28.0$	
Absolute of Tem	Date	120214025577	
	Highest °	$\begin{array}{c} 47.2\\ 54.1\\ 59.1\\ 69.2\\ 69.2\\ 84.0\\ 78.5\\ 78.5\\ 78.8\\ 62.8\\ 58.0\\ 54.0\\ 54.0\end{array}$	
Mean of Maximum and	Tempera- ture	$\begin{array}{c} 29.78\\ 35.87\\ 41.36\\ 45.03\\ 60.85\\ 63.12\\ 56.44\\ 53.12\\ 56.44\\ 48.88\\ 82.97\\ 52.97\\ 39.49\\ 39.49\end{array}$	564 · 04 47 · 00
Mean	Kelative Humidity %	88 89 89 89 89 89 89 70 70 70 70 70 70 70 70 70 85 71 70 85 71 85 71 85 71 85 71 85 71 85 71 70 85 70 70 85 70 70 70 85 85 88 80 80 80 80 80 80 80 80 80 80 80 80	946·3 78·9
	Barometer "	$\begin{array}{c} \textbf{30} \cdot \textbf{106} \\ \textbf{29} \cdot \textbf{904} \\ \textbf{29} \cdot \textbf{904} \\ \textbf{29} \cdot \textbf{872} \\ \textbf{30} \cdot \textbf{082} \\ \textbf{30} \cdot \textbf{140} \\ \textbf{30} \cdot \textbf{140} \\ \textbf{29} \cdot \textbf{967} \\ \textbf{29} \cdot \textbf{967} \\ \textbf{29} \cdot \textbf{701} \\ \textbf{30} \cdot \textbf{102} \\ \textbf{30} \cdot \textbf{102} \end{array}$	359-472 29-956
	1940	January Pebruary March April May Juue Juue September November December	Totals Averages

Rainfall. Average 1887-1940 = 42.498"

