# [Report 1919] / Medical Officer of Health, Worcester City.

# **Contributors**

Worcester (England). City Council.

# **Publication/Creation**

1919

# **Persistent URL**

https://wellcomecollection.org/works/a4cje9eh

# License and attribution

You have permission to make copies of this work under a Creative Commons, Attribution license.

This licence permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited. See the Legal Code for further information.

Image source should be attributed as specified in the full catalogue record. If no source is given the image should be attributed to Wellcome Collection.



# FORTY-SIXTH

# ANNUAL REPORT

OF THE

Medical Officer of Health

OF THE

URBAN SANITARY AUTHORITY

OF

The City of Worcester,

YEAR 1919.



Deighton & Co., Printers, Worcester.

theing that for the year 1919

	per pirths.	Total deaths	89	93	90	85	61
Knie	Rate per 1000 births	Diarrhoea and Enteritis (under 2 years)	65.6	12.24	8.67	16.22	6.1
	ttion.	Diphtheria.	0.13	0.14	0.13	0.18	60.0
The state of the s	Civilian Population.	Whooping Cough.	20.0	20.0	80.0	0.02	20.00.00
	Civilian	Scarlet Fever.	0.03	0.04	0.03	0.03	0.00
1919.	per 1000	Measles.	0.10	0.13	0.10	80.0	0.00
XEAK 19	eath-rate pe	Smallpox.	0.00	00.0	00.0	00.0	0.00
100	ar Gista	Enteric Fever.	H	10.0	10.0	10.0	0.00
THE	icogneo	All Causes,	13.8	13.8	12.6	H374	12.5
06	o Total opulation.	Birth-tate per 100	18.5	0.61	18.3	18.3	16.0
1	Obstruct	bye Buildings	0 0	OHEN	wils	lunta	
2.	No dwel	ling houses w	Wa	OWNINS		: cuis	year,
0.	No dem	ealth Acts, an tions has been olition orders	Weren Chi	TOWN	er	:	ter
SS	ent condi	tions has been	done.	at	hall	DE SE	sibo under
100	Public H	o deal with the	ं डॉब्हा वं डॉब्हा	Sorie	S SE	T P	sotions of
te	rmined to	The Health ( o deal with th	Committee	legaa	1164 (	nJ <del>L</del> c	n Sleration
SL	g made.	The Health	the state of the s				

# TABLE II .- VITAL STATISTICS OF WHOLE DISTRICT DURING 1919 AND TEN PREVIOUS YEARS.

			and a section be included the model of the death and the section of the section o		of the de	ha and a		The Late	1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-
50 61	l-pos	38	62	13.1	670	16.00	815	817	51,000	1919
48 DEVI		66	64	15:37	783	15.68	Soo	792	51,000	1918
50		54	69	13.84	692	15.1g	773	771	200000	1917
169101 17812		: 33	44	13.5	654	18.2	882	878	48,459	1916
83/1183		. 31	30	14'09	699	20'16	1000	995	48,071	1915
88 88		22	28	15.11	732	20.6	1000	994	N.53	1914
83 89		29	54	14.72	711	19.25	930	930	18,287 S	1913
23 76 75	Co	12	57	13.16	634	20.97	1010	1009	45,152	1912
27 108 100	7	22	35	15.3	737	22.3	1073	1071	18,021	1911
12 129 117	13		43	15.3	736	22:8	ij	1095	47,885	1910
16 114 100	6		23	14.9	713	24.02		1147	-47,749	1909
									47.	2.
in the Number Rate per 1000 nett births		D	in the District.	Rate. 7	Number Rate	Rate.	Number 4	Number.	year.	-
of Age.	sidents ot	of Resid		IN THE DISTRICE:	DIST	Nett.	Z	Un-	estimated to middle	Year.
THE DISTRICT.	LE	THS	TRANSFERABLE DEATHS	REGISTERED	TOTAL		BIKTHS.		Population	

In Column 6 are to be included the whole of the deaths registered during the calendar year as having actually occurred within the district.

In Column 12 is to be entered the number in Column 6, corrected by subtraction of the number in Column 8 and by addition of the number in Column 9. Deaths in Column 10 are to be similarly corrected by subtraction of the deaths under 1, included in the number given in Column 8, and by addition of the deaths under 1 included in the number given in Column 9. Area of District in acres

3662 Total families or separate occupiers Total population at all ages, including area added in 1914 49,158 At Census 11,220

(exclusive of area covered by water).

Digitized by the Internet Archive in 2018 with funding from Wellcome Library

d	+	13.24	23.3	14,11	24 51	14.5	15,40	12.5	1.4.1	14.1.	
13	-			TA	BLE	H	Ι.				

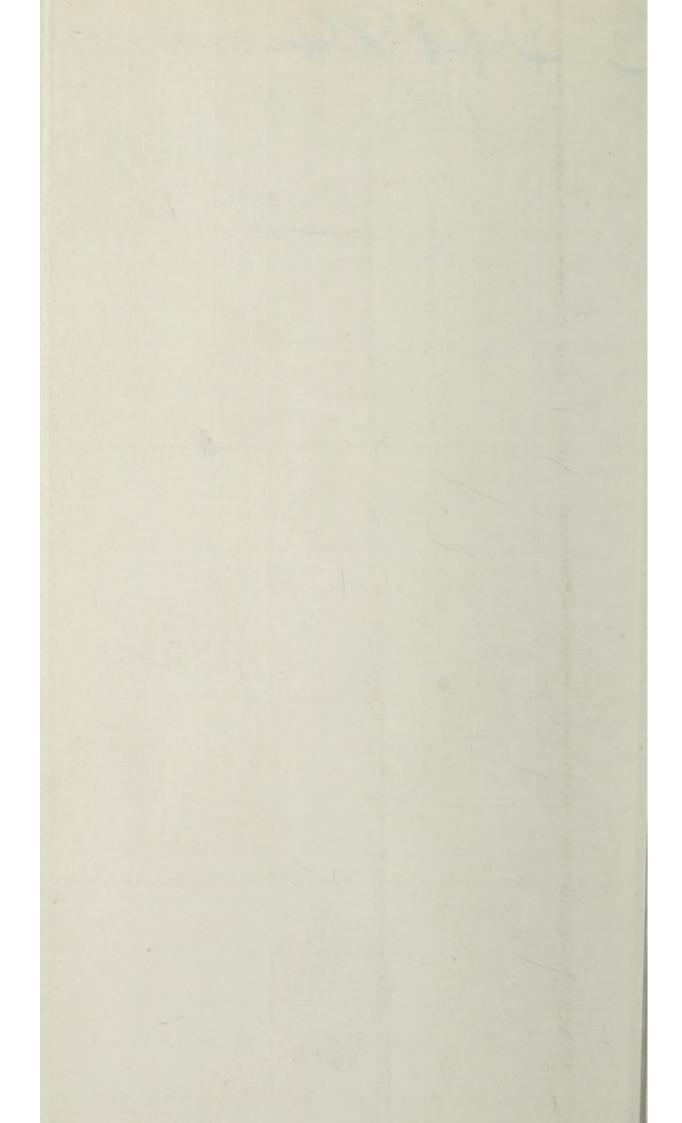
INFANT MORTALITY 1919. NETT DEATHS FROM STATED CAESES AT VARIOUS AGES UNDER ONE YEAR OF AGE.

F												24	
CAUSE OF	DEATH	30 7 61	Under 1 Weele.	122 Weeks2	2-3 Weeks,	3-4 Weeks.	Total under	1.3 Monthso	3-6 Months.	6-9 Months.	9-12 Months.	Total Deaths under One Year,	23/2 10
Small-pox Chicken-pox Measles	: 00	 (No.	107				201				9.	Diedicr purtue	not
Scarlet Fever Whooping Cot Diphtheria and Influenza										I	I	2 2	harry to
Abdominal Tu Other Tubercu	berculosi lous Dise	s	::+				10					3	Total I
Meningitis (not Convulsions Laryngitis Bronchitis	.62	0110)	100			7		  I	2	23. 23.	11: 11: 11:	4	
Pneumonia (all Diarrhoea Enteritis Gastritis	forms)	1 000				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7	5  I	2	%3 	.53	12 ··· 3 I	
syphilis S suffocation, ov	erlying	77.		, I	30,10	à.de: :	  	20,0	12.	1 25 25 25 25 25 25 25 25 25 25 25 25 25	3450	I	
Melectasis Congenital Mal remature Birt Mrophy, Debi	h		3 7	10 10 10 1	000014	obdi:	© ©3 12	0 0	St. OX	.+		3	
Marasmus Other Causes	5		2 2	878	500	89.1	355	(200) (100)	157	1672	17:45	43	radium A
o m			15	3	5	17	23	12	-8	6	100	50	
Nett Births	legitima		0 25.	18:42	18,07		Deaths	7		-	fants	47.	1
100	illegitim		-	-	<u>~</u>		-	17	-	nate C	infants	3.	
rape of	1 3		101	-	01	-	-6	1.0	0.1	-	-		

700	
12.28	

HISTERED FROM ALL PRING THE YEAR 1919.	DI	DEATHS REG
191 7	DURING THE	GISTERED
	-	-

		Diso
	Training to the control of the contr	2662
I.		-10
	principal principal control to the control of the c	-2-
	maning distributes transformations in a communication of the communicati	125~
	militar and manuscana programma anno manuscana proportionamenta anno manuscana anno anno anno anno anno anno a	24.8
	mata). Ilianas non menamelanamanjaramenamaha-menamanamanamanamanamanamanamanamanamana	114
		212
	manno mandadenne massama asampanissa, psamarsandanan pariamanan manasistanas samasan managana	212
H		0.18
		212
		512
		212
	ANTI-TOTOTO PERSONAL PROPERTY OF THE PROPERTY	312
		I Es
		Age



The Forty-Sixth Report of the Medical Officer of Health,
being that for the year 1919.

To the Urban Sanitary Authority of the City and County of Worcester.

Mr. Mayor, Aldermen, and Councillors,

This Report which I have the honour to present differs in arrangement from those of previous years. This is in accordance with the wishes expressed by the Ministry of Health in a circular letter addressed to all Local Authorities, and accompanied by a memorandum which set out, in some detail, the information that should be included in the Report, and the order in which that information should be given. I have endeavoured to carry out these instructions.

The writing of the Report has been delayed by circumstances the Council are familiar with. Owing to the election of Dr. Marion Andrews as whole-time School Medical Officer, she ceased her work in the Health department at the end of September, 1919, and the whole work of that department

had to be carried on by myself, including the greatly developed scheme for Maternity and Child Welfare, and also that of Tuberculosis Officer and the care of the patients in the City Hospital. Your Council kindly allowed me assistance in the Tuberculosis work, and Dr. Neville Crowe has done the work at the Tuberculosis Clinics since the middle of October, 1919.

The work of the Maternity and Child Welfare has greatly developed during the year as a result of the sympathetic acceptance by the Council of the report sent them by the Health Committee in March, 1919. The results of this work are most satisfactory and encouraging. Only those who have intimate knowledge of the conditions under which a proportion of their fellow-citizens live and bring up their families can know the struggles and hardships that are endured. These fall largely on the mothers of the families, and whatever measures can be carried out to lessen these hardships will be to the advantage of the present and future generations. Most of the mothers are sincerely anxious to do the best for their children and are thankful for the advice and help which is tendered to them. It is a very few who are so little civilized as to be careless and neglectful.

The statistics of the year are favourable. The Table on page 52 gives the comparison of certain

with the 148 smaller towns among which World with the 148 smaller towns among which World or estertis classed? The Table on page 153 shews the limbirth rate, death rate, and infant death rate for 1919, sicolard for I the ten years preceding which death rate and infant death-rate were adversely affected by the radepidemic of Influenza which occurred in March and April.

It will be noted that the work of the Sanitary Inspectors is incorporated in this Report by the wish of the Ministry of Health. Your chief Inspector (Mr. Ralph Taylor), has worked hard during the year, especially as regards the safeguarding of the food supply of the City.

The information concerning the Water Supply, Drainage and Sewerage, and the removal of House Refuse, was kindly supplied me by the City Engineer.

court toldeseent bleed medicine will be to the advantage

of Mary Sartanibedonno Ynenations. Most of the

which is tendered to them. It is 356fr yalf what are so little civilized as to be careless and neglectful.

The statistics of the year are favourable. The Table on page 52 gives the comparison of certain

years 1918 and 1917, but lower than that for any previous to 1917.

The City and County Borough of Worcester lies on both sides of the River Severn, extending from North to South for a distance of about three miles. On the West bank of the River the land rises to 100 feet above sea level, and the population of this area is about 8,500. On the East bank the land is undulating for about half-a-mile, and then the hills rise to 250 feet.

The industries carried on are very varied. There are large Engineering and Railway Signal Works, large Glove Factories, Tin Canister Works, Royal Porcelain Manufactory, Tanneries, and many others. There is nothing in these employments that has any marked influence on the health of the inhabitants, and the large variety of occupations tends to lessen the average of unemployments.

Population.—The census of 1911 showed the populatio of the City to be 47,987. The City boundary was extende in 1914, and 1171 persons were then added. It is ver difficult to estimate the present population with any degree of accuracy, because of the considerable movement of persons into and out of the City that has occurred owin to War conditions, but it probably exceeds 51,000.

The Birth-rate for 1919 on this estimate was 160 p 1000 of the population as 49,336 for the purpose calculating this rate, which would give a rate of 16.5 p 1000. This is a slightly higher rate than the rate for t

years 1918 and 1917, but lower than that for any year previous to 1917.

The Death-rate for the year was 12.5 per 1000, which is the lowest rate recorded, excepting that for 1912 when it was 12.46. The Registrar-General estimates "the death-rate population" at 47,361, which gives a rate of 13.4. This latter estimate excludes from the population all non-civilian males, and is based mainly on the rationing returns sent the Registrar-General by the Ministry of Food.

The Infant Death-rate, reckoned per 1000 of the births, was 61, which with the exception of the year 1918, when it was 60, is the lowest recorded. The epidemic of Influenza in the first Quarter of the year was the cause of many deaths of infants, and counterbalanced the very low infant death-rates of the other three quarters of the year.

There is no special feature of the year's statistics that requires comment, except the epidemic of Influenza in February and March. No less than 37 deaths were directly assigned to this cause. The epidemic was not so severe in type nor so widespread as that in 1918, when 151 deaths were caused, and there was not the lack of medical and nursing help that was so distressing a feature in the former year.

The Hospital accommodation of the district consists of (a) The General Infirmary, having 120 beds; (b) The Infirmary of the Worcester Guardians, having 84 sick beds for males, 76 for women, six for children, and four lying-in beds; (c) The City Hospital, having 30 beds for infectious disease, and 34 for Tuberculosis patients.

The General Infirmary has two wards closed (i.e., 4 empty beds) for lack of funds to keep them open. This i most unfortunate, and a great hardship on many wh would be greatly benefitted by earlier treatment of the illnesses than can under present conditions be obtained.

Water Supply.—This is taken from the River Seven The Works are on the East bank at the North end of the City. The water is pumped into tanks into which a portion of the sediment falls, and thence flows on to nine salfilters, which cover an area \$6501 square yards. The usu rate of filtration is from 2½ to 3 inches per hour.

The filtered water passes into a covered pure water tan and is pumped thence into the water mains. The supply constant and sufficient. There are two covered reservoir one on Rainbow Hill containing 812,000 gallons, the oth on Gorse Hill 250 feet above sea level containing 250,00 gallons. These reservoirs supply the houses in the high parts of the City, and being in connection with the lollying mains are available in case of fire. There are water storage cisterns in the houses.

The Severn has a flow during ordinary weather of 40 million gallons per day. It is liable to floods after hear rain, and the water for a few days is turbid and contaminate by the washing out of the ditches and small streams the drain into it. The river flow may then be two or this times greater than the ordinary flow.

tank and bacteriological examinations are made, the micorganisms per cubic centimetre and Bacilli Coli per 1) cubic centimetres being recorded. The results of the sand filtration were quite good through most of the year. When the temperature of the water is near freezing point, micro-organisms are found in the filtered water in increased numbers, and also Bacilli Coli. On six occasions the latter numbered more than five per 100 c.c. of the water, and on four of these dates in February) the River water was turbid and the temperature low. In 33 samples examined no Bacilli Coli were found in 100 c.c., a good proof of the excellency of the filtration.

Drainage and Sewerage.—All the houses are provided with water closets having flushing cisterns and connected with the sewers, with the following exceptions:—There are 26 privies and 55 pail closets, also 67 houses having water closets not connected with the City sewers. All these houses are in districts not yet sewered, as Tolladine Road, Astwood Road, Blackpole Road, and part of the Malvern Road area added to the City in 1914.

During the Gear, 24 houses in Claines which were added to the City in 1914, were connected with the City sewers. Fifty-two houses in this same area are as yet unprovided with flushing cistories on the closets.

Astwood and Blackpole Roads from overflow from the Astwood and Blackpole Roads from overflow from the esspits of houses. There is no sewer into which tild eliminate can drain and although application for a blantistic ewers in this district has been made to the Masseria. Health it has flot yet been granted.

tank and bacteriological examinations are made the microbin test of the continuous and bacille Coli per to organisms, per cubic centimetre and Bacille Coli per to be the cubic structure and bacille Coli per to be the cubic centimetres being recorded.

sludge process, which has proved an efficient method of purification. The dry weather flow of the sewage is two million gallons daily, and at prescut three quarters of al million gallons are being treated at these Works. An enquiry has been held by the Ministry of Health for the sanction of a loan to enlarge the Works, and treat the whole of the sewage by the method which has been found successful.

Removal of House Refuse.—House refuse is removed weekly by a staff of men, horses, and carts belonging to and in the employ of the Corporation. It is taken in the carts to various low-lying parts of the City and deposited, finally being covered with earth. In the winter time this method is mostly free from offence, but in hot weather, unless great care is taken unpleasant smells arise from the heap due to decay of the vegetable parts of the refuse. The road sweepings are generally added to these refuse heaps.

It cannot be said that this is an hygienic method of dealing with house refuse, and from time to time serious complaints have been received from citizens living in the neighbourhood of these "tips," complaints which were in most cases amply justified. The only proper way to dispose of this refuse is by a destructor, the provision of which it is hoped the Council will take into consideration when the present more urgent needs have been satisfied.

The Chief Sanitary Inspector reports that 79 sanitary, ashbins have been provided during the year of Many of the receptacles used are insanitary, and should be replaced.

Before the War this provision was being made, but lorg long time proper ashbins could not be obtained and the price now is much greater than in 1914.

# Sanitary Inspection of the District.

sanction of a loan to enlarge the Works, and treat the which has been found

The Chief Sanitary Inspector has furnished the following information of the work done during the year.

Abatement of Nuisances.—There were 942 Preliminary Notices issued, and 377 Statutory Notices served by order of the Health Committee. These were complied with, but there was much delay in carrying out the requirements of the Health Committee owing to the scarcity of labour and of materials.

SUMMARY OF WORK DONE DURING 1919.

and the second s
Number of Notices (Preliminary) issued bing d 1011182 012
such as smit of (Statutory) but, settler send dir. 267720
orl, in grComplaints received and investigated Nad MAIN SERVE
mi, now Letters sent with regard to Notices, &c. booth and appear
101, VAN Notices sent to Schools re Infectious Disease 10000
Rooms cleansed and limewashed and all all safety
Dilapidated walls, floors, windows, &c., repaired bogorlei it fishly
Defective roofs and spouting repaired and some deserg out friend
Damp walls cured 23
Washerhouses repaired, cleansed and limewashed and
lo male floors and vards repayed and repaired 9480 emignes
Glazedestoneware sink shirt bearing barns and selected the sink shirt sink shirt sink shirt shirt sink shirt

· Control of the cont
Sink waste and rainwater pipes disconnected from drain. loods4
Drains opened and cleansed beause looms and llaw quiet
Defective drains repaired or reconstructed or reconstruct
Glazed stoneware gulley traps fixed 25
Water closets repaired, cleansed and himewashed 59
HIISHING PANKS PROSIFER
" provided with new basins and traps of he was and traps of he was a second of the sec
Defective joints in pans, traps, and flush pipes repaired 33
Nuisances from overcrowding abated 101.2 10 21020 2
,, improper keeping of animals need 210
Accumulation of manure removed a second and 34
Houses provided with proper water supply 13
Sanitary dustbins provided 79
Miscellaneous 36
Waste of water reported to Water Inspector 32
Number of references to City Engineer with regard to
dangerous buildings, paying of courts, and foul street gullies
Emptying of ashpits and dustbins referred to the Streets
Askenouses of the self-shipe and the self-shipe of the self-shipe
lete Weight Dawenouses. I say and weight
to the state of th
and structure will normit will at the
9 , risits to these premises.
It was necessary in five instances to take proceedings for
failing to comply with Statutory Notices. One was for
overcrowding, and four for insanitary houses which the
owner had neglected to repair after repeated warnings.
The work was carried out in accordance with the Magis- trates' orders.
trates' orders noitabommodation
Elementary Schools.—These premises are all supplied
Elementary Schools.—These premises are all supplied
with City water, and have w.c.s. with flushing taiks. The

School Medical Officer, Dr. Marion Andrews, reported a damp wall in a School caused by a defective water pipe, which was at once repaired.

Information concerning all cases of notifiable Infectious disease is at once forwarded to the School office, with the names of all children of School age in each house who are exposed to infection.

Closure of Schools for outbreaks of Infectious disease have been few during 1919. Three Infant Schools were closed for Influenza during March, and two Infant Schools for Whooping Cough in July. After any outbreak of Infectious disease the Inspectors disinfect the School premises.

Factory and Workshops Act.—There were at the end of the year 210 workshops on the Register. During the year three had been given up and 10 added. There were 47 bakehouses in use, and 22 not being used. In 1914 there were 71 occupied bakehouses. Many of the bakehouses now in use need substantial repairs; they are kept as clean as their structure will permit. The Inspectors paid 125 visits to these premises.

The following defects were found, and were remedied when the attention of the owner or occupier was called to them:

Want of cleaning repair after repeated warning to mark it as carried and in accordances principle of the series orders. ... and in carried the series orders are series orders. ... as series orders orders and beschools of these premisers orders and have we something tatoglab replaced or the series of the serie

year. Nearly the whole of the slaughtering of and

His Majesty's Inspector of Factories notified six cases of infringements of the Public Health Acts allow which were at once dealt with may yet such vidguorous bus

Common Lodging Houses.—There were nine registered Common Lodging Houses at the end of the year, two having closed during 1919. The byelaws were complied with by the person registered. The houses are all old in structure, and not well adapted for the purpose. One hundred and twenty-six inspections of these houses were made during the year.

Houses let in Lodgings.—There are 11 of these premises, and the byelaws regulating them have been fairly well kept, but there have been too many persons occupying the rooms at times, caused by the acute shortage of houses in the City. The Inspectors paid 48 visits to these houses.

Offensive Trades.—The following is a list of these trades, all of which are subject to byelaws!—

Fish frying		Bacon F		25
Tripe boiling				5
Fellmongers				3
Hide, skin, and fat dealers				2
Gut scrapers	for	received		2
Rag and bone dealers			idianda	6

All the premises where these trades are carried on are periodically inspected, and were founding belikept in a satisfactory state, and the byelaws observed unit in a satisfactory state, and the byelaws observed unit in the same and an important and

Slaughterhouses. There are 31 registered Slaughter-houses in the City, eight of these were not used during the

year. Nearly the whole of the slaughtering of animals for to sold has been done at the Municipal abattone I/ aiH

and thoroughly done by your Chief Inspector, Mr. Raiph
Taylor, who has given a great deal of time and energy to

In a later paragraph it will be seen that the amount of unsound food condemned has been more than 20 tons, and the great increase, as compared with former years, has been due to the close inspection of the carcases of animals killed at the abattoir.

The number of animals slaughtered during the last three years is as follows:-

SH JINY SHE	quoso ange lo ogestica	Charges for		111270	To A	farch 3	ist	
9121 2921 34	To preside	Slaughtering		1918		1919		1020
Number of	Deasts	15.		902	914	1238	1.1.5	3036
Houses.	Sheep	3d.	916	6071	11	4638.	(1.2	1115
list, of t	Calves	6d.		180		1136		733
10 43 E	Pork Pigs .	6d.	***	1605		1330	2	892
	Bacon Pigs		•••	50			DRIJ	375
3 5				8808		8517	2	6151
3				ngers	-			
2	***	arologiers s.	S L	in mid	1919		19	26 - d.
Amounts .	received for			t toom				
							~ -	2 2
o bairres e	trades are	168 12	3	310	in E	0 4	12	_ ,
00111100	in county 5	Mote fuez	2 11	entise	10 9	4-116		1110

agricultural district, and the midst of a fertile agricultural district, and the milk is brought direct from the surrounding farms and distributed to the households and the fibrate field of the fibrate and the surrounding farms and distributed to the house of the house in the City, eight of these were not used during the

of the total consumption. There are in the City eight cow-keepers and 60 purveyors of milks The Cowsheds Regulations are well kept generally; the periodic cleansing and limewashing of the cowsheds is carried out, but neither the cows nor the floors of the cowsheds are kept as clean as they should be, nor are the milkers' hands and clothing as cleanly as is necessary for this work. Due 1111

The Inspectors paid 76 visits during the year to the Cowsheds, Dairies and Milkshops.

Under the Sales of Food and Drugs Act, 63 samples of milk were examined. Of these 58 proved to be genuine. The remaining five samples were dealt with as follows:—

Number of Samples.	Extent of Deficiency,	Result.
I	10 5 per cent. deficient in non-	Fine £30 and £2 2s. od. Costs
I	18.3 per cent. deficient in fat	Fine £3
	25 per cent. deficient in fat	
	year, on the country of the country	question of war-
1 .81	22'3 per cent. deficient in non-1 of	Fine Liorand

No samples of milk have been examined during the year for the detection of the Tubercle Bacillus, nor for contamination by dirt such as obtains access to the milk where the conditions relating to the milking and transport are insanitary or careless. Such conditions are by no means uncommon and are the result of either carelessness or ignorance in the persons handling the milk. Milk is the food of children and invalids, both classes being peculiarly

is vsusceptible to those contaminations with which milk, when dewocardessly handled, is particularly liable.

rom contamination of this most essential food.

Milk and Cream Regulations, 1912 & 1917.—The Analyst has reported as follows on the samples submitted to him:—

Milk and Cream not sold as Preserved Cream :

Number of samples examined for the presence of a preservative.	Number in which a preservative was reported to be present.			
Milk 63	0			
Cream 2	201 0			

2. Cream sold as preserved Cream:
No sample was purchased during the year.

There was very little cream or preserved cream on sale

Milk (Mothers and Children) Order, 1918.—This Order was made in February, 1918, and was put in force very shortly after. Milk had been provided for mothers and children previous to this Order by the Worcester Infant. Health Society so far as their funds would allow. The regulations regarding the supply of milk restricted it to "necessitous" cases, and the definition of this condition was left by the Local Government Board "to the discretion of the Local Authority."

The Ministry of Healthbin a Circular letter dated Octo-

ber 14th, 1919, pressed "upons Local aluthorities the importance of making full use of the powers which they possess under the Milk Orders and the Maternity and Child Welfare Act to secure that mothers and young children in their area are not deprived through the increase in price of the necessary supply, with the inevitable detrimental consequences to their health." In another paragraph of this Circular letter the Ministry of Health strongly urged that handbills should be distributed informing the public of the facilities that existed for obtaining a proper and sufficient supply of milk for expectant and nursing mothers and children under five years of age.

There were at once 5,000 leaflets distributed through the City by the help of the Health Visitors and through the Elementary Schools.

The working of this scheme was much facilitated by the possession by the Council of a well equipped Dairy, which was taken over by the Council in October, 1918, as mentioned in the Annual Report for that year. In that Report it was pointed out that the milk which this Dairy Mad been supplying in the City would in all probability have been sent elsewhere had the Dairy been closed, as would have happened if the Council had not purchased it.

The great increase in the number of children attending the Centres, and the opening of the Ante-natal Centre in May, caused a great demand for milk. Milk is always an expensive food, and the much higher prices that obtained owing to war conditions made it impossible for a large number of wage tearning families to purchase it. The Health Visiters by their work in the City for twelve year

zeitpast,uhavesendeavoured to impress on the mothers the It doiabsolute necessity of milk as food when the breast feeding The absence of milk from the diet of children between the age of nine months and five years has disastrous and effects on the growth and development of the child, and is ab a the chief cause of Rickets, defective and early decaying rigs teeth, stunted growth, and a loss of power to resist the attacks of the infectious diseases to which at those ages dug sthey are especially liable. ad bloods ellidband and of the facilities that existed furbablishing a proper a

Unsound Food .- During the year the following food has been destroyed as being diseased, unsound, or unwholeid we more on once concentrate that the religious concentration of

Article.	Cause of Condemnation.
Cattle.	Signal division specifical
19 carcases and all organs	Generalised Tuberculosis
19 carcases and all organs	Localised do. Do. do.
68 heads and tongues 10 light	Do. do.
- 115 117 r sets of lungs old on Hannoder	Do. do.
liversul. That year I were liversul for some	Do a Frank managon
at ricentile which this Dairy of Poeds	it was pointed out th
model over Pigs idedorq Its his binom's	supplying in the City
9 carcases and all organs	Generalised 2000
28 heads and all organs beath in	Localised boundered
in the number of children attending	The great increase
Carcase and organs of a can printego	Hereighthe South
na syawts Chillill. Alim tot bnameb	May, caused a great
included this prices that obtained it impossible for a large	expensive food and to Emaciation due to
raing families to purchase it. 6 The	s Hydremic Cacheviaun
their work in the group of the ist or search	Healthin arthugouleut

rticle. Cause of Candemi	A Cause of Condemnation.
es es	Pyrexia
5 carcases and organs sates in carcase and organs	Septic Peritonitis
notes Prost bitten	Septic Metritis
in i, , , (bull)	Black Quarter
29 heads and tongues	Actinomycosis
All organs of 19 cattle, 354 livers,	
142 lungs, 13 tripes	The state of the s
Sheep Sheep Londindon Londing Sheep	HJ8192 DILL
Margaret of Sheep to alicellate to alorder parts	Hadrania Calania
22 carcases and all organs	
อาสุรูอก กกรูปพอกรูปของรองสาสเตอ	Asphyxia
2 , , , , , , , , , , , , ,	Peritonitie
407 livers, 307 lungs	Parasitic diseases
497 livers, 307 lungs	
reamplant Pigs. Attached of the Protocol	
7 carcases and organs The control of the carcases and organs	
1 carcase and organstsem	Natural death
Calves.	
Calves.	White Scour
3 carcases and organs	Septic Arthritis
re takien mider tile Sale " Fot I	Immaturity
	Unwholesomeness due of injury during life
844 lbs. of frozen beef six one eniune	Mouldy, decomposition
were certified tenosed foredles an	
546 lbs. of flour	Malggotyubs
15 boxes of kippers I	Decomposition
2 barrels of herrings I	Do.
280 lbs. of cod, hake	Do.

1 (

Article.

7 cause of Condemnation.

7 cause of Condemnation.

8 carcases and organic services stage of the service of the serv

The total weight of food condemned was 20 tons 7 cwts.

2 qrs. 7½lbs. The whole of this food, with one exception,
was voluntarily surrendered by the respective owners.

In 1918,  $9\frac{1}{2}$  tons were condemned; in 1917,  $6\frac{3}{4}$  tons; and in 1916, 4 tons 4 cwt.

This great increase of meat that has been condemned has resulted from the examination of all carcases by a skilled Inspector; and the fact that his judgment was good and fair is shown by the voluntary surrender of the condemned meat.

Sale of Food and Drugs Acts.—The total number of samples submitted to the Analyst in 1919 was 140. Of these 92 were taken under the Sale of Food and Drugs Acts, and 48 were test samples.

2 boxes of kippers ... Decomposition 2 barrels of herrings ... Do.

280 lbs. of cod, hake ... ... Do.

The following table shows the amount of adulterated during the past three years belonged.

	4				epper		18	3	19	19
	T.				eoi		Te			
-			rma	form	robwo	rma	formal	1	rma	
Analyses		hein	no dak	担	Tinde	Fo	II.		Fo	
				300			10731			
Adulterated										-0
Adulterated Amounts of Costs	Fines	and	dedona	estable	a franchist	osh) 17/	が対象的			

Honey.—One sample of Honey taken under the Salof Food and Drugs Act proved to be adulterated with 35 r cent. Commercial Glucose Syrup. The case was brout before the Magistrates, but it was dismissed on the quest of warranty.

List of Samples collected during the year.

ino Road is a	in the Tollad	px Hospita	ollama.	Inform.
No. Adul-	Article.	i.	Le el	nin .
	lpox Prevent	d (Smal	ublice Real	Gen
T2		de by the	Derforme	apd -
2 Model door	Cheese	;zii	e Regulatio	2d1 -
2 — (	ream -	211	11 (2) 25 (2) (2)	2 -
2 in b behito	astor Oibena. d	the fourth t	This is	year ]
2	Irinning II	20207 () 0 0 1	HILL COMPANY	
0 1	doney	CHICE OF THE	ID VO TU	market &
pas occurred.	d No death	as been mil	e disease h	11 10
4 - 1	ard	.7. 2		2

86	14	Milk Madgarin		131	58	5,00	14	*9
lub\$ 1	oimi o	Marigarin	olesho	ng tab	3	1 5111	2	
I	-	Marmalae	yearsh	thiree	teng 5	ut Sin n	-	
3	-810	Pepper			2	_	I	-
2	_	Rice			I	_	I	_
I	10	Powder, I	Baking		_		I	
2	100	Quinine,		niated		anay nr	1	
#		Tinctur	e of			alyses.	11/A 2	-
140	1.5	0 3		Mille	86	6	BA-38	10

<sup>\*</sup> Eight of these samples were taken direct from the cows and were below the standard laid down by the Board of Agriculture.

# Prevalence of and control over Infectious Diseases.

Smallpox.—There has not been any case of Smallpox notified during the year.

The Smallpox Hospital in the Tolladine Road is always in readiness to receive patients.

Public Health (Smallpox Prevention) Regulations, 1917.—No primary vaccinations nor re-vaccinations have been performed by the Medical Officer of Health under these Regulations.

year. This is the fourth year in succession that the City has had less than 50 cases in the year. There has been no great prevalence of the disease since 1913. The type of the disease has been mild. No death has occurred.

beis Of the 26 cases of our were seendary. Twenty of the patients (77 per cent) were removed to the City Hospit. for isolation and treatment. Is There were no "return" case

Diphtheria.—There were 97 cases notified, 10 were secondary cases. Twelve of the patients were treated a home, and 85 (87 per cent.) were removed to Hospita Two young children were admitted direct into the General Infirmary urgently needing tracheotomy, but the operation of the deaths from this disease, all in children.

There was an increase of this disease during 1919 compared with the four preceding years, and the disea was unduly prevalent in the Arboretum district and the northern end of the City.

The medical men are making considerable use of the bacteriological examination of swabs from persons conplaining of sore throat. The cost of this is paid by the City. The antitoxin of Diphtheria is supplied from and can be obtained at any time, day or night. Patien are removed to Hospital, with few exceptions, on the sanday that the notification is received, which is frequent done by telephone. In the case of patients who are going to Hospital it is seldom that antitoxin is administered previous to admission. In oa few instances medic practitioners have administered the antitoxin to member of the family who have been exposed to infection.

diseases have been notified three of the former (one co tracted elsewhere) and one of the latter. One case

Typhoid and the Paratyphoid case were treated at home of your at the General Infirmary (removed their before notification), and one at Newtown Hospital of No defects of drainage at the homes of these persons were found.

OI boditon seaso to enour enough their illness.

All the patients recovered from their illness.

25

The average annual number of cases notified during the last seven years has been eight, whereas in the previous seven years (1905-11) the number was 23.

Acute Poliomyelitis. No cases of these diseases Acute Polioencephalitis. were reported during the year.

Cerebro-spinal Fever.—One case only was reported of this disease. The patient was a child 2½ years old. The meningococcus was found in cultures made from the spinal fluid. The child died. No spread of infection occurred, and swabs taken from the parents were "negative."

Encephalitisi Lethargica. Two cases of this disease were inotified, and one, a girl aged 15, died. The other patient, la vivomani aged 41, recovered. There was no cases of the Medical Officer of the Local Government aged at his request.

etc.) Regulations came into force on March 1st, 1919
etc.) Regulations came into force on March 1st, 1919
etc.) Regulations came into force on March 1st, 1919
and medical practitioners were realisted medical practitioners were realisted to notify all cases of the diseases mentioned in the regulations that

been under treatment in Army hospitals, and the Pneumonia, Acute Primary, Theneni wdre 1020 cases notified during the year, and three of these died. The deaths registered from Lobar-Pneumonia wevering and those from Pneumonia gight an The 20 dotified cases Were distributed as follows: mine in the Imonth of March, six in the 2nd quarter, one in the 3rd, and four in the last quarter. large proportion of cases in the month of March is probably due to two causes, one, that notification began on March 1st and cases were notified then that had been ill for some days previously, and secondly, that Influenza was epidemic at that time, about the chart aff affine blocks be diffings for Schriebychever Dighthert

Acute Influenzal Pneumonia. Forty-one cases were notified, 38 of which were reported in the month of March. There was in the first quarter of the year an epidemic of Influenza, and 31 deaths from Influenza were registered; during the second quarter only three deaths were registered. Pneumonia was stated to be a secondary cause of death in 16 of these cases. During the third and fourth quarters no cases were notified althour bloom ni grandla

There was not the great scarcity of doctors and nurses during this epidemic as was so unfortunately the case in boratories at the Shireball challe Cib. 8101 examined bacteriologically cuteking and and such such

Malaria. Duting thousear 28 ex-service men bwere notified by medical menas having had attacks of Malaria. The men were all written to and asked to come for an interview, and nearly guery one did somun Alfor them had been serving in the armies fighting in the East, and contracted the disease during the War. The men had all

been under treatment in Army hospitals, and the severity Pneumonia the free fine was three of these died. The dea

of sent Dysenteryon Two men were notified, both ex-service men, and were sent by their panel doctor to the Military Hospital at Norton They were interviewed after their discharge from Hospital, and advised as to the precautions ladouthey should take against the spread of infection.

due to two causes, one, that notification began on March Hospital accommodation for Infectious Diseases is provided at the City Hospital, Newtown Road, and is ample for the needs of the City. It consists of separate blocks of buildings for Scarlet Fever, Diphtheria, and Typhoid Fever. A large proportion (80 per cent. to 90 per cent.) of the patients notified are removed there for isolation and treatment.

There are also attached to the Hospital pavilions for the hospital treatment of cases of Tuberculosis. Accommodation is provided for 13 men, 14 women, and seven children. There are also two small wards containing two beds each, where in cold weather the severe and feeble There was not the givent scarcity 6 cases can be treated.

The chemical analyses and bacteriological work is done locally at the laboratories at the Shirehall. The City water is examined bacteriologically weekly, and at such other times as the City Engineer requires. All the analyses of food are done there, including some pathological bacteriological specimens from the abattoir. Ill som nom onl

A very large number of examinations (729) of "swabs been serving the gribulani qobem torown atagrat order more to consider the disease during the War. The men had all

Non-pulmonary 7 Eases requiring surgical treating

Scarlet Fever admitted to the City Hospital, and the cases of Diphtheria previous to discharge of bus was

During the year sputa from cases of the partiel gold or notified strength of the cases and interest are admitted of the cases of Tuberculos were examined in 179 that are some of the detection of the closed of the detection of the Health is also the Tuberculos of Health is also the Tuberculos.

Tuberculosis.—The scheme for the prevention and treatment of this disease was approved by the City Council in the autumn of 1912, and at once accommodation for patients was provided in the Blocks of the City Hospital which were seldom used, and in Shelters erected in the grounds. Building was commenced in the Hospital grounds, the plans being approved by the Local Government Board. The pavilion for women and children was occupied on December 9th, 1914, and the men's pavilion on January 13th, 1915. These buildings, with five shelters adjoining, provide accommodation for 15 women, seven children, and 13 men. There have been reserved also ten beds at Knightwick Sanatorium—five for men and five for women.

This accommodation has been ample for the needs of the City, both for insured and non-insured persons, and for some cases of Non-pulmonary Tuberculosis. During 1919 the Local Government Board sanctioned the use of two small wards of two beds each, built in 1898 as isolation wards for doubtful cases of infectious disease, for very advanced cases which could not be treated in the open-air cubicles. These wards have been used for such cases since the beginning of April, 1919, and have been found very useful.

Non-pulmonary cases requiring surgical treatment are admitted into the wards of the Worcester General Infirmary, and payment is made by the City Council for their maintenance. Some of these patients who do not need active surgical treatment are admitted to Newtown Hospital for convalescence, and thereby receive much benefit.

The Medical Officer of Health is also the Tuberculosis Officer, and there is also a whole-time Nurse for this work. The Nurse visits the home of the person notified, and obtains certain facts which are entered on a record sheet. Subsequent visits are made to encourage the patient to carry out the advice given by the medical man in attendance, or by the Tuberculosis Officer if the patient is coming to the Dispensary. The Nurse also requests any "contacts" of the patient to come to the Dispensary for examination if not in good health, and if their doctor is willing for them to do so.

There were 119 persons notified during the year, 89 being Pulmonary, and 30 Non-pulmonary. Of the 89 Pulmonary cases, 45 were males (19 of these were ex-service men) and 44 were females. Of the 30 Non-pulmonary cases, 16 were males (four being ex-service men) and 14 were females.

some cases of Non-pulmonary Tuberculosis. During a the Local Government Board sanctioned the use of small wards of two beds each, built in 1898 as isola wards for doubtful cases of infectious disease, for advanced cases which could not be treated in the oper cubicles. These wards have been used for such cases the beginning of April, 1919, and have been found the beginning of April, 1919, and have been found the

useful

SQ.									
1									
-									
1									
1									
	K A P	-				-			
		fic	2.	Sana toria.	64 45 15 57				
		oti	0	Sa	4	-			
3		of Notifica	-	-					
3	Committee / to : * sale	Joi 101	Form	. i	. Of these patien	-			
3	admitted to Kelly	2011	2018	新田	TATALAN TO THE TATALA				
9	CALLYBOOT .	Z	12	TE E	Sanatorium and 32	1			
9	lospital,	1111	017	DIT OF		-			
- Pool	within twelve again	56	10 56	nts a	Of tige gro patio				
8	「現場技術でDATOALL HITTALA		inoN		2				
8	ved Ton of Tell	1000	THE N	The Part	The state of the s				
Stee	Company of the Compan	00	2.14	Total	within gne month.				
3	ithin thro month	3.22	3117	letoT.	others with sign me	-			
Control	The state of the state of	ica c. I	301	10.2030	but kis kind stann				
Metho		o. of Notificat on Form "B	Primary Notifications.	15	The Bisrensary is	-			
1	Quincs Schare	N. O.	ary	HORGO					
2	0 0	F	Ca	550	totalgof By Bersons				
2	SECTION TO SECURE	on on	Pri		DO unad g bam	-			
8	Sa ware Louisetter	No.	198	Under	n Sapata				
3	010	I Shelve	- retrieve -	THE RESERVE AND ADDRESS OF THE PARTY.	to nouldida, traditido	-			
ŧ	を表現を表現である。	Town, wond							
ĝ.	2 - P	no snoil							
Ť	Maria Harrison Por	1009	10.	Total	I tage tagget delan titie	-			
Ł		03/8	THE	Total	13 13				
蒙	Si		215	CA 100	PERSONAL PROPERTY OF THE PROPE	-			
藝	OSIS)		1 1 1 E	65 and up	The state of the s				
1			ban		SIST O MERLINA SOCIETA	-			
1	it   S it			55 10	interpopación in interpopación interpopaci				
ğ	N N	4	-		Vilightwick com	-			
Ĭ.	BI BI	*	1	55 55	regenerations of the				
ž.	Dura D	3	Si	PETERIST	Table du Space de la serven	-			
E	Z P	10	190	35 45	A Coming there during the				
Ŗ.	語を記さるののででい	-	Sat	-1597 O	Weissen	-			
-	н о	1 0	19	35 55	Auch Cx-service anen.	1			
8	Samuel Funda P	ons	Not		11,500 CO 900000 CO 900000	-1			
1	AI ar	ati	4	20 to 25	" NEWTOWN H. O				
E	H E	fic	ar	2007	" Newtown Hospital.	-			
83	工 工	8 8	in	15	4 The Manual to				
10	PUBLIC HEALTH (FUBER	Z	3	10 15 20 25 35 4 10 10 10 10 10 10 10 11 15 15 15 15 15 15 15 15 15 15 15 15	Surfice the second of the Newtown Hospital.	-			
Đ.	2 ( 1)(1)(1)	0		10	i bus dallen and i	4			
5	BI STORY	10	25	21112	the same of the sa	-			
	5-5	N N	91	535	101) 1 Barrang 1001	111			
B	ntairem H	Styny	DIR						
				- 30%	Yers Since in a				
			-	13. 701	on we passing	110			
	The same	SINE	14 3	12 5 19	Merel since the passing en anye waiting list " of	T			
	to to the son	T.	0 2 11	perso	during here with i	#11			
1	have been bed bed	OIE	Ser.	Sel sele	statement applies to go	: 11			
	20	tent	CSIC	I E OI	. state to Entitle	111			
1	The state of the s		3	diod	Putmonary.  Males and Non-Pulmon  Males and Females.	ub			
	and the second	DON	150		THE PURCHE THE TOWN ST.				
1					ale ale				
	100				M. F. F.				
			0 3		N A				
50.0	B14 701								

Of these patients, 28 were admitted to Knightwick Sanatorium and 32 to Newtown Hospital.

Of the 119 patients, 23 died within twelve months of the time the notification was received. Ten of these died within one month, nine others within three months, four others within six months.

The Dispensary is open for three clinics each week. A total of 417 persons attended and 1631 attendances were made by them. Of these persons 92 were contacts many of them children who were kept under observation for many months; and 34 were sent by doctors for examination and report and were seen subsequently at intervals if the doctor so wished. Some of both these classes were sent to Knightwick or Newtown for a month's residence for observation.

Knightwick Sanatorium.—The City Council had eight reserved beds at this Institution. Thirty-one persons were treated there during the year. Of the 20 men admitted 15 were ex-service men.

Newtown Hospital.—There were 88 persons treated here during the year. Of these 38 were men and 17 boys under 12, and 21 women and 12 girls. Of the 38 men 23 were ex-service men. Several of the patients remained many months, and eight died there.

Never since the passing of the Insurance Act has there been any "waiting list" of persons who had been notified and who were willing to go to a residential institution and this statement applies to both insured and non-insured adults and their dependants.

Year after year a number of persons, about 20 per cent. of the cases notified, are in an advanced stage of the disease when they first come to the notice of the Local Authority, and all that can be done for them does not prevent a fatal result within a few months. The causes of this are various. If the patient is the breadwinner of the family, he or she struggles on to earn a living, and does not seek medical help in the early stages of the disease, even when they suspect what is amiss with their health. Unless some means can be arranged for the maintenance of the family in such cases this is likely to continue. When a person is suspected of the disease and is offered Sanatorium treatment, to be under observation for a short time, this offer is declined often because of the fear that residence in a Sanatorium will prevent their employment subsequent to the term of treatment. This fear of infection is greatly exaggerated by the general public. There is agreement on all hands that persons suffering from advanced disease are dangerous to others under the conditions that exist in many of the working class houses, and that the segregation of such individuals will certainly tend towards lessening the spread of the disease. If the community demailes that such individuals must be segregated, the community must see also that the families of such individuals are adequately provided for when the patient is the breadwinner.

In Wordesterning Care Committee has yet been set up. This step has been suggested year after year and the work of the campaign against Tuberculosis must be incomplete without it. or que ataupaba mass behavita sairilian

In the hear future/itsis hoped that Colonies will be pro-

31

seesabour Sanatoria Life in a Sanatorium is dull and monotonviron ous. Le Colony will provide work of varied kinds suitable
later to the individuals who are sent there. The period of
anona residence will be much longer than ordinarily obtains in a
set to Sanatorium, and some of the patients will be taught a trade
better suited to their health than the one previously worked
at, which indeed may have been harmful to them. Such
Colonies can only be provided by the combined effort of
several Local Authorities, except in the case of the largest
Cities.

service men were notified with Tuberculosis during the year, either direct from the Army Hospitals or from the local medical men. A number of other ex-service men have been referred to the Tuberculosis Officer for examination and report. Some of these patients have been difficult to classify, the hardships they had endured having induced a physical state similar to that produced in the early stages of Tuberculosis. A period of residence at a Sanatorium has been ordered for these men with satisfactory results in many cases their health being restored so that they can return to their families and work.

Venereal Diseases.—The scheme for the freetreatment of these diseases was prepared imaginand the Clinics at the General Infirmary began on July 1st of that year. It has not been found necessary to alter that scheme, and the facilities afforded seem adequate up to the present.

Patients are seen buithet Medical Officer on Wednesday

can be readily seen. These have also been placed in gway (nome) when Sabra Sabra (nome) case will be seen by the House Surgan and selection also come at stated times do not reating the Clinic.

The Clinics are open to all comers, and during the year there were 426 persons seen and treated; for Syphilis 22, for Soft Chancre 2, for Gonorrhæa 104, for other condition other than the above 96.

From the City population 37 males and 26 females were dealt with for Syphilis for the first time, 33 males and three females for Gonorrhea. The total attendances of Cit patients were 553 for Syphilis and 880 for Gonorrhea. is satisfactory that none of the patients ceased to atter the Clinic until their treatment was completed.

The "in-patient days" of treatment during the ye were 265 for cases of Syphilis, and 105 for cases Gonorrhea.

Free supplies of Salvarsan substitutes were given to five medical practitioners, all of them being members of the honorary staff of the Worcester General Infirmary.

The pathological examinations are all made at a centilaboratory at Birmingham. The following number specimens were sent:—For the detection of Spirochete 22; of Gonococci, 80; for Wasserman re-actions, 118. (these 30 were sent by medical practitioners.

No action has been taken during the year under t Venereal Diseases Act, 1917.

Handbills have been printed and sent to the Factori and Workshops, with a request to affix them where the can be readily seen. These have also been placed in the Public Uninals in the City. The handbill stated the dangerous consequences of contracting these diseases, both to the individual, to innocent persons, and to the race, and stated the necessity for immediate treatment, and the facilities afforded at the General Infirmary.

there were 1436 persons securand treated a for Syphilisius than Soft Chancrel & for Conorrhora 104 for for other condition other than the above 96, tion of the leaders were

Examinité City population, antides authors santaine et de distribute de la distribute de la

There imperiant class of treatment during the year were conficted cases of Conordon.

Free supplies of Salvarsan substitutes were given to five medical practitioners, all of them being members of the honorary staff of the Worcester General Infirmary.

The pathological examinations are all made at a central laboratory at Birmingham. The following number of specimens were sent :—For the detection of Spirochetes, 22; of Gonococci, 80; for Wasserman re-actions, 118. Of these 30 were sent by medical practitioners.

No action has been taken during the year under the Venereal Diseases Act 1917.

Handbills have been printed and sent to the Factories and Workshops with a request to affix them where they

## solbem o'Maternity and Child Welfare, m

Midwives Act, 1902.—During the year 18 midwives all certified and trained notified their intention to practise in the City. Ten were in practise on their own account, and eight were on the staff of the County and City Nursing Institution which is a training school for midwives.

There were 813 births registered, and no less than 743 were on the books of the midwives. Of these 173 women had also engaged a medical man. The staff of the Nursing Institution and two private midwives attended 547 cases out of the total number.

The new Rules of the Central Midwives Board came into force March 25th, 1919. Copies of these Rules and an explanatory letter were sent to all the midwives on the Register. No infringement of the Rules has been discovered. The midwives, in accordance with these Rules, sent for a medical practitioner in 110 instances—in 82 it was for help at the confinement, and in 28 on account of the condition of the infant.

Notification of Births Act, 1907.—There were 839 live births notified under this Act for the year ending December 31st, 1919. Of these 570 were entered on the Register of the Health Visitors and were visited by them. Eleven of the infants born died before the first visit was paid on the eleventh day after birth.

Midwives Act, 1918. This Act came into force on January 1st, 1919. By its provisions payments must be

made by the Local Supervising Authority to medical men for attendance on women at confinements, when the midwife in case of emergency as defined in the Rules of the Central Midwives Board calls in to her assistance a registered medical practitioner. The scale of fees was fixed by the Local Government Board.

Circular letters were sent to all the doctors and midwives early in January, informing them of the provisions of the Act which concerned them respectively.

During 1919 claims were received from medical men in 38 cases, the fees amounting to £66 14s. od. The Local Supervising Authority have the power to recover the fee from the patient, unless it is shown that she or her husband is unable to pay such fee. The sum of two guineas was recovered from patients.

Act widens the powers of Local Authorities in the matter of Maternity and Child Welfare. It is concerned with the health of expectant mothers and nursing mothers, and of children under the age of five years who are not being educated in Schools recognised by the Board of Education.

A Memorandum (M. & C.W. 4) was issued by the Local Government Board, explaining how the Act thould in their opinion be viewed, and offering suggestions for its working. A report was prepared and was considered by the Maternity and Child Welfare Sub-Committee, revised subspaced by the Health Committee, and accepted by the City teurosisting March 4th, 1919.8 .0101 tel visual

The Council resolved that the following recommendations

## (4) Dental treatment for Expectant and Nursing Moth

Midwives, To encourage competent Midwives the paid no safee for attendance on patients shall be paid up to 15s. for each case, where the patient could not afford that sum. The Midwives claimed fees amounting to £ 18 5s. od. to the er of 1919, this sum being in respect of 33 cases.

• The work of a Midwife is arduous and responsible, and performed with knowledge and skill is of the greatest bene to the community. The fees obtained are so small and the work so hard that as a profession and means of livelihood is shunned by many who would do the work well. If the Maternity and Child Welfare Schemes are to be the successful that all desire and hope for, the status and remuneration the Midwives of the country must be improved. How in portant this work is in Worcester may be gauged by the fathat the Midwives attended 530 out of a total of 813 birt during 1919.

(2) It has not been possible to provide for the provisi for confinements away from home, in cases where the heal of the woman or the condition of her surroundings make desirable that she should be admitted to an institution the confinement. Negotiations to take such patients in the General Infirmary have been proceeding, but no agreement has been come to so far.

helps to women where, in the opinion of the Health Visito they were necessary. Since the middle of May "how helps," have been provided in 32 cases, at a cost of £:

The weekly sums paid in cach case have varied with the amount of work done. The benefit to the mother and I young family while she is incapacitated that been great a has been much appreciated.

The shocking condition of the teeth of many adults is well known to Medical men and to Dental Surgeons, and also the very serious effects that such a condition has on the individual's health. The public do not recognise the evils that such a follow on septic conditions in the mouth. This sepsis has a harmful effect on the expectant mother and nursing mother, and in the latter case causes a deterioration of the breast milk.

The Dental Surgeons agreed to treat these cases, and the Council in May approved of the scale of fees to be paid. There were 34 patients treated during the year, 12 for extractions only, 16 for extractions and new dentures, and six for dentures only. A sum of £227 was paid for this work, of which £53 was repaid by the patients.

Whooping Cough, Epidemic Diarrhoea, and Ophthalmia Neonatorum, is being carried out by the District Nurses attached to the County and City Nursing Institution, and is well done. The Council have agreed to pay an inclusive fee of £50 a year for this work.

Arrangements have been made also by which infants

Arrangements have been made also by which intants having severe ophthalmia may be treated for payment at the Ophthalmic Hospital, either as out-patients or as in-patients. Several cases have been treated at the out-patient room, and attend there two or three times a day as the Ophthalmic Surgeon may order. The results have been uniformly good, in only one case was the sight of an eye lost.

but red this matter also negotiations with the Committee of the time. The limited accommodation (due to two Wards being

Infirmary Committee have been unable to admit these case

in June, 1918, has been carried on successfully attendances have increased during the year and have read a daily average of from 20 to 25 (Saturdays excluded), to highest number of children on any one day was 27. The is accommodation for 30.

There has been no infectious disease among the chile during the year.

The mothers who necessarily go from home to work at maintain the family are very grateful for the care and a maintain which is given to the children.

The total cost for the year was £711, and £16; as received from the parents or guardians of the children. he usual charge for maintenance is 10d. daily. This m be varied in accordance with the ability of the parents to p

The Health Visitors visit the homes of new-born in its on the eleventh day after birth and subsequently as make necessary. They make enquiries into many of the ill-births, of the deaths of infants, and immediate enquires into cases of Ophthalmia Neonatorum, and such her diseases of young children as the Medical Officer may direct.

The General Arrangements for attending to the lith of expectant and nursing mothers and young childre are as follows that and not the lith are the lith and the lith are the lith and the lith are the lith and the lith and the lith are the lith are the lith and the lith are the lith are the lith and the lith are the l

There were for the first five months of 1919 two Falth Visitors, each taking one half the City.

At the beginning of May, the Worcester Infant Health Society, with ellerhelp of a grant of money from the American Rodmenss Society, furnished a room over the Municipal Dairy in Broad Street as an Ante-natal Clinic. The Clinic was held weekly, and was attended by Dr. Marion Andrews until the beginning of October, at which time Dr. Andrews ceased to be Assistant Medical Officer and became whole-time School Medical Officer. During the last quarter of the year a lady doctor visited Worcester weekly, payments for her services being made by the Worcester Infant Health Society.

The Ante-natal Clinic.—For the seven months, May to December, 232 ante-natal cases were seen, and 435 attendances were made by them.

The work increased rapidly as the following figures show:—

No. of New Patients.  No. of Patients.  No. of New Patients.  Patients.  No. of New Patients.  Patients.  Agents day, after dirth and subsections of the Patients.  Third Quarter of the Patients of the Patie	Secondary visits by
Patients.	Patients.
May and June bon dini6 rethe. Zab 42	18
Third Quarter of the Continue of the Cont	1.42
Fourth Quarter 113 10 134	145
ases of Orbition and immediate on	to confin

At the end of the wear there were 78 expectant mothers having milk supplied to them free or at less than cost price.

It was necessary on May 1st to obtain the services of mother Health Visitor. One half of her salary was place by the Infant Health Society for the ante-natal work, and he City Council paid one half for her visits to the shomes especting the new part of the Day Nursery and the City of the Day Nursery and

Worcester duri. Walshand know all in bus society hist began its work in 1907.

Maternity and Child Welfare Clinics. For the first quarter of the year four Clinics were held weekly—two at the Dispensary Buildings in Bank Street, one at St. Paul's, and one at St. Clement's. Dr. Andrews found this was more than she could do, and the Clinics at St. Paul's and St. Clement's were discontinued at the end of March.

The attendances of mothers and children at these Clinics have been increasing monthly.

Bank Street.	St. Paul's.* Thursday.	Bank Street.	St. Clement's.*	Total.
20149 Fd	pai	49	Baile	300 120
261	(11)2 T	doze6	ge isional	899 517
Felloris.	o further	mulate to	should sti	3
2481	260	2916	161	5888
504	60	270	35	869
	261 2481	261 2481 260	cam of the charge of the charts.  10 10 2 00 2 1842	ring the cam proved the stimulate to further efforts.  101 0102 002 1842

<sup>\*</sup> These Clinics were only during the first quarter of 1919.

It will be seen that the average attendance at each Clinic was over 50, a number that could not be attended to adequately at the Bank Street premises. Early in 1920 four Clinics a week have been resumed.

All this work for Child Welfare has been developing in

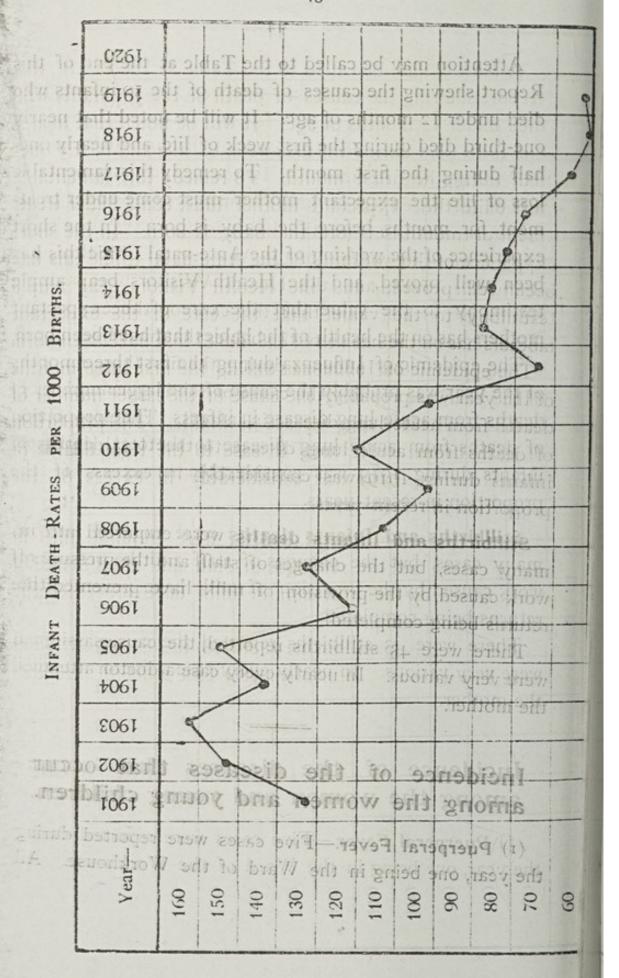
Worcester during the last twelve years, since the Worcester Worcester Unfant Health Society first began its work in 1907. The termination of the Wiar has come from the lamentable facts disclosed to the Wiar has come from the lamentable facts disclosed all respecting the physical condition of the men when medically examined for the Army.

It has become certain that if this degeneracy is to be checked and a healthy race produced, great efforts must be made and the child cared for before being born. From this point of view the Ante-natal Clinic is most important, and feeding the expectant mothers who need food is the best way to ensure healthy babies.

The infant death-rate, reckoned on per 1000 births, was during the early part of this century a disgrace to our City. It has year by year inproved since 1903, with occasional relapses. The chart here given is a record of progress of which the City may well feel proud and which should stimulate to further efforts.

It will be seen that the average attendance at each of Cimic was over 50 a number that could not be attended to adequately at the Bank Street premises. Early in 192 four Clinics a week have been resumed.

All this work for Child Welfare has been developing



Attention may be called to the Table at the end of this Report shewing the causes of death of the 50 infants who died under 12 months of age. It will be noted that nearly one-third died during the first week of life, and nearly one-half during the first month. To remedy this lamentable loss of life the expectant mother must come under treatment for months before the baby is born. In the short experience of the working of the Ante-natal Clinic this has been well proved, and the Health Visitors bear ample testimony to the value that the care of the expectant mothers has on the health of the babies that have been born.

The epidemic of Influenza during the first three months of the year was probably the cause of the larger number of deaths from acute lung disease in infants. The proportion of deaths from acute lung disease to the total deaths of infants during 1919 was considerably in excess of the proportion in recent years.

Stillbirths and Infants deaths were enquired into in many cases, but the changes of staff and the pressure of work caused by the provision of milk have prevented the returns being completed.

There were 43 stillbirths reported, the causes assigned were very various. In nearly every case a doctor attended the mother.

## Incidence of the diseases that occur among the women and young children.

(1) Puerperal Fever.—Five cases were reported during the year, one being in the Ward of the Workhouse. All

5 8 8 6

the patients recovered. The Midwiyes in attendance kept the rules of the Midwiyes Board so, far as could be ascertained.

- (2) Ophthalmia Neonatorum.—Twenty cases were notified. All the patients were promptly treated, in some cases the Midwife or Nurse sent the baby to the Ophthalmic Hospital when the eye discharge was first seen. One child lost the sight of one eye, all the other patients recovered without damage to the cyesight.
- (3) Measles and Rubella were notified in 41 persons only during the year, there being 31 of the former and 10 of the latter. No death was registered from either of these diseases.

The Nurses from the Nursing Institution visited and nursed the serious cases, and their help was most valuable.

- (4) Whooping Cough.—There were four deaths registered from this disease, all under five years of age. The children all had medical attendance and nursing.
- (5) Epidemic Diarrhea.—There was very little diarrhea during the year. Only four deaths were assigned to this cause, three were in children under one year of age.
- (6) Epidemic Influenza. This disease was very prevalent during the first three months of the year, causing no less than 37 deaths. Six of these deaths were in children under five years of age. The influence of the disease shewed itself also in the large number (21) of children's deaths that were registered from diseases of the lungs. Of

these 21 deaths, no less than 16 were in infants under one and partielles and the partielles of these 16 deaths occurred during the ose first quarter of the year.

(2) Ophthalmia Neonatorum.—Twenty cases were no fied. All the patients were promptly treated, in some casthe Midwife or .gnisuoH the baby to the Ophthalm

It is agreed that the housing problem is, at the present time, most urgent and important, having regard to the moral and physical welfare of the community; also that it is beset with great difficulties, which are known to all and especially to those who are endeavouring to solve the problem.

During the War there was no building of houses, and very little work was done by the Health Committee under the Housing Acts. Houses that needed repairs were dealt with by notices served under the sections of the Public Health Acts.

In the Annual Report for 1914 it was stated that there were 160 working-class houses vacant in December of that year. During 1919 there were no houses of this description vacant and there was a great and increasing demand for houses.

(1) General Housing conditions in the City.—
The number of dwelling houses in the City is ubout 1,136.
Of these about 9.000 are houses rented by the working classes.
No houses were built during 1919 at is very distinct to estimate the population of the City, it is probably histween 51,000 and 52,000. Factories are being built in and near

ing, and this will cause some extra demand for housing accommodation of the shortage of houses is at the present time acute. The Housing Committee of the City Council of has been engaged for many months in dealing with this matter, a semi-inventor visities of the city council of the matter, a semi-inventor visities all present of the city council of the city counc

- There has been purchased three excellent sites on which to build, and plans have been prepared and approved for the erection of 357 houses on these sites.
  - (2) Overcrowding.—For the purpose of the Housing Survey a few representative streets were visited from house to house, and very little overcrowding (i.e., more than two adults to one room) was discovered.

In one large block of buildings, which consists of small flats, there were cases of overcrowding found.

One prosecution was ordered by the Health Committee after repeated warnings had been given, and the overcrowding was abated.

(3) Fitness of Houses.—An ancient Gity such as Worcester, the central part of which was once enclosed by walls, would be likely to have a considerable number of houses so constructed and arranged as not to come up to any good standard of housing. The worst of these, more than 250, have been demolished during the last 10 years. The defects found are being back-to-back or having not through ventilation, insufficient and improperly situated sanitary accommodation, being crowded together preventing free access of light and air, and general internal defects such as inadequate cooking apparatus, absence of larder and cup boards, and frequently no wash-house nor water supplements.

ow ni nedwithin a reasonable distance. The City Council on December and spid 1919, passed the following resolution:

that the case of every house coming before the Health the Council are of opinion and direct that the case of every house coming before the Health case of the accommodation, and especially sanitary conveniences, should be dealt with the case of the accommodation, and especially sanitary conveniences, should be dealt with the case of the committee's guidance a standard of the sanitary conveniences which should, in ordinary cases, be provided as regards existing houses, viz.:—

A separate wash-house for every three houses.

In each of these conveniences a water supply and proper drainage is to be provided.

This resolution has been of the greatest assistance to the Health Committee when dealing with owners who think that what is is good enough.

The Health Committee has visited and dealt with a large number of houses. In February 20 houses in Pheasant Street were represented as being unfit for habitation. After full consideration the Committee decided to deal with the defects under the Public Health Acts, and the houses have been greatly improved and additional sanitary accommedation and wash-houses erected.

Experience shewed that the Housing Acts could seld on guive be made use of, as under the present conditions the tenant's could not be removed nor could they find any other housing accommodation.

The difficulties of remedying the defects in houses were due to the lack of labour, and of materials, and the unwill-

(b) Fifty-eight of these houses were senging of these houses were senging the send to send the send these 28 were to those 28 were send the middle of the send the send the done with the sending so were tenants. The remaining 30 were

- does not seem possible until houses are being built in considerable numbers to carry through any scheme with regard to unhealthy areas.
- houses have been under revision for a long time. When the pressure of work caused by War conditions is relieved it is to be hoped that this revision will be carried through.

The Bye-laws relating to Common Lodging Houses were made by the Council in 1892, and those relating to Houses let-in-lodgings in 1910. They are sufficient under existing conditions.

## (6) Statistics for the year 1919:

a Union of Householders in respect of certain group of houses, the total number of such houses being 142. The Health Committee has visited these houses and action has been taken respecting them. The owners of some of these houses were very dilatory in taking the steps necessary to put them in order, and the Health Committee ordered prosecutions with the result that the work ordered by the Committee was done.

action was taken as detailed below. Misee 4).

2. Action under Section 17 of the Housing Act of 1900 serious of a) Two hundred and forty four houses were inspected and scheduled under this section.

(b) Fifty-eight of these houses were considered unfit of the considered to the constant of the

n to miblind out (c) In the remaining houses (186) such repairs as model and many most cases, at the best state been carried out. Show to successful and the most cases,

3. Housing Act, 1919, Section 28.—No orders were made under this Section, but at the December Meeting of the Council the following resolution was carried:—

the Housing Act, 1919, relating to the steps to be taken to require owners to put their working-class houses in a state in all respects reasonably fit for human habitation, and authorise the Health Committee to exercise the Council's powers under that Section, and to have power from time to time to incur an outlay not exceeding at any one time the sum of £1,000 in carrying out work to working-class houses which the owners were liable for but failed to do, the Committee being authorised to require the owners to repay all sums so expended with interest at 5 per cent per annum, either in one sum or by monthly or annual instalments as the Committee may think best in each case,"

betoest to to 12/4 & Closing of Orders! De Representations were made in betoegen respect of 20 houses during the year, but no closing orders no closing orders and selections but a consideration of the contract of the contr

were made. The Health Committee after full consideration, determined to deal with these houses under the sections of the Public Health Acts, and such work as is possible under present conditions has been done.

- 5. No demolition orders were made during the year.
- 6. No dwelling houses were demolished voluntarily.
- 7. Obstructive Buildings—No representations were made respecting such buildings.
- 8. There is no member of the Health Staff whose sole work is connected with housing. The Chief Inspector and one Assistant Inspector give part of their time to these duties (Another Inspector was appointed in May, 1920, who wil also take part in this work).