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COUNTY PALATINE OF LANCASTER.

REPORT

OF THE

MEDICAL OFFICER OF HEALTH

FOR THE YEAR 1919,

WITH STATISTICAL INFORMATION FROM REPORTS OF DISTRICT MEDICAL OFFICERS OF HEALTH.

(Presented to the County Council, November 4th, 1920.)



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CONTENTS.

	PAGE
Prefatory Remarks	vii.
AREA	ix.
POPULATION	ix.
BIRTHS AND BIRTH-RATES	xi.
Deaths and Death-ratesTables A & B	xiii.
Infant Mortality	xvii.
Notification of Births Acts, 1907 and 1915	xix.
MATERNITY AND CHILD WELFARE Table E	XX.
THE PRINCIPAL EPIDEMIC DISEASES	xxix.
SMALL-POX	xxxii.
Measles	xxxiv.
SCARLET FEVER	XXXV.
Whooping Cough	xxxvi.
DIPHTHERIA AND CROUP	xxxvi.
Enteric Fever	xxxvii.
DIARRHŒA AND ENTERITIS	xxxviii.
ACUTE POLIOMYELITIS; CEREBRO-SPINAL FEVER	XXXIX.
ACUTE ENCEPHALITIS LETHARGICA AND ACUTE POLIO-	Anna I
ENCEPHALITIS	XXXIX.
OPHTHALMIA NEONATORUM	xl.
INFLUENZA	xl.
Bronchitis and Pneumonia	xli.
THE PUBLIC HEALTH (PNEUMONIA, MALARIA,	-111
Dysentery, &c.) Regulations, 1919	xlii.
Rabies	xlii.
Tetanus	xliii.
ORGANIC HEART DISEASE	xliii.
CANCER PHTHISIS (PULMONARY TUBERCULOSIS)	xliv.
TUBERCULOSIS REGULATIONS, 1912Tables C & D	xlyiii.
Public Health (Venereal Diseases)	Alym.
REGULATIONS, 1916	1.
Notification of Infectious DiseasesTables F & G	lxi.
ISOLATION HOSPITALS	lxii.
DISINFECTION,	lxiii.
Sanitary Administration :—	
Housing of the Working Classes Table H	lxiv.
NuisancesTable I	lxxi.
CLOSET ACCOMMODATION,	lxxi.
Canal Boats,	lxxi.
SLAUGHTER-HOUSES, PUBLIC ABATTOIRS,	lxxi.
FOOD INSPECTION	lxxii.
Dairies, Cowsheds, and MilkshopsTable I	lxxiii.
Smoke Observations,	lxxiii.
Scavenging and Refuse Removal	lxxiii.
Refuse DestructorsTable I	lxxiv.
House Drainage, Sewerage, and Sewage Disposal	lxxiv.
Water Supplies	lxxvii.
Shops Acts, 1912 and 1913	lxxviii.
MIDWIVES ACTS, 1902 AND 1918	lxxix.
SALE OF FOOD AND DRUGS ACTS, 1875-1907 Tables J & K	lxxxvi.

URBAN DISTRICTS.

COMPARATIVE STATISTICS-

PA	GE.	F	AGE.
Abram	1	Hindley	14
Accrington Borough	1	Horwich	
Adlington	1	Hurst	15
Ashton-in-Makerfield	2	Huyton-with-Roby	
Ashton-under-Lyne Borough	2	Ince-in-Makerfield	
Aspull	2	Irlam	16
Atherton	3	Kearsley	
Audenshaw	3	Kirkham	
Baeup Borough	3	Lancaster Borough	17
Barrowford	4	Lathom and Burscough	
Billinge	4	Lees	
Blackrod	4	Leigh Borough	18
Brierfield	5	Leyland	
Carnforth	5	Litherland	
Chadderton	5	Littleborough	19
Chorley Borough	6	Little Crosby	
Church	6	Little Hulton	
Clayton-le-Moors	6	Little Lever	20
Clitheroe Borough	7	Longridge	20
Colne Borough	7	Lytham	
Crompton	7	Middleton Borough	21
Croston	8	Milnrow	
Dalton-in-Furness	8	Morecambe Borough	
Darwen Borough	8	Mossley Borough	
Denton	9	Nelson Borough	
Droylsden	9	Newton-in-Makerfield	
Eccles Borough	9	Norden	23
Failsworth	10	Ormskirk	23
Farnworth	10	Orrell	23
Fleetwood	10	Oswaldtwistle	24
Formby	11	Padiham	24
Fulwood	11	Poulton-le-Fylde	24
Golborne	11	Preesall	
Grange-over-Sands	12	Prescot	25
Great Crosby	12	Prestwich	25
Great Harwood	12	Radcliffe	26
Haslingden Borough	13	Rainford	26
Haydock	13	Ramsbottom	26
Heysham	13	Rawtenstall Borough	27
Heywood Borough ·	14	Rishton	27

I A	Annes-on-the-Sea 28		
Royton	27	Upholland	31
St. Annes-on-the-Sea	28	Urmston	32
Skelmersdale	28	Walton-le-Dale	32
Standish-with-Langtree	28	Wardle	32
Stretford	29	Waterloo-with-Seaforth	33
Swinton and Pendlebury	29	Westhoughton	33
Thornton	29	Whitefield	33
Tottington	30	Whitworth	34
Trawden	30	Widnes Borough	34
Turton	30	Withnell	34
Tyldesley-with-Shakerley	31	Worsley	35
Ulverston	31		
RURAI	, DI	STRICTS	
	0/10	Charles (Charles and Charles a	
	~~	n 11 - 1779	LOP
			10.00
			41
Fylde			41
Garstang	38		41
Lancaster	38	Wigan	42
Leigh	39		
ADMINISTR	RATI	VE COUNTY.	
AGGREGATES OF URBAN, RURAL	, ANI	D COUNTY	43
i. Oldbumylled.		J. Bonelner, Esq.	
AP	PEN	DIX.	ACE
Manual Caraca Caraca			
METEOROLOGICAL TABLES		.000 .00 200	17.1
		R Henry Harry	

PUBLIC HEALTH AND HOUSING COMMITTEE (1920).

The Chairman of the County Council:

*Sir William Scott Barrett, Knight, D.L.

The Vice-Chairman of the County Council:

*Sir Henry F. Hibbert, Bart., D.L.

Chairman of Committee:

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Vice-Chairman:

*C. J. Trimble, Esq., C.B., C.M.G.

(* County Aldermen.)

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R. Sephton, Esq.

J. T. Travis-Clegg, Esq., D.L.

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The Vice-Chairman of the County Council:

*Sir Henry F. Hibbert, Bart., D.L.

Chairman of Committee:

*J. Chadwick, Esq.

Vice-Chairman:

*A. Kershaw, Esq., M.D.

(* County Aldermen.)

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H. Winstanley, Esq.

MIDWIVES ACT COMMITTERUS

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REPORT

OF THE

MEDICAL OFFICER OF HEALTH

For the Year ended December 31st, 1919.

To the County Council of the County Palatine of Lancaster.

Mr. Chairman and Gentlemen,

I have the honour to submit for your consideration the Thirty-first Annual Report on the health, sanitary condition, and administration of the Administrative County of Lancaster, for the year ended 31st December, 1919.

The tabular statement below compares the County birth and death rates of 1919 with the preceding year and with the mean of the ten years 1909-1918:—

		PER 1,00	00 OF POPUL	ATION.	Rate of
	Birth- rate.	Death- rate.	*Epidemic Death- rate.	Phthisis Death- rate-	Deaths under 1 year to 1,000 Births.
1919	16.62	14.06	0.49	0.80	93
1918	16.08	17.26	0.96	1.07	100
Mean of 10 years 1909-1918	20.55	14.43	1.23	0.91	113
Increase or Decrease in 1919 on—					
Previous Year	+0.54	-3.20	-0.47	-0.27	-7
Ten Years' Average* See for		-0.37		-0.11	-20

The year under report was characterised by a marked reduction in all the County mortality rates above quoted, the epidemic death-rate and the infant mortality rate being the lowest on record. The death-rates in 1919 from enteric fever, measles, and whooping cough were below any previously recorded. The fall in the general death-rate, as compared with the year 1918, was due mainly to the decrease in the deaths from influenza and pneumonia, but notwith-standing this decline, influenza, pneumonia, and bronchitis combined accounted for almost thirty per cent. of the total deaths from all causes.

Further progress is reported with regard to the County Council's scheme of child welfare. The scheme for the diagnosis and treatment of venereal diseases has developed, and arrangements have been made under which skilled medical treatment is now available in practically every part of the County area.

Additional legislation in regard to housing was placed on the statute book during 1919, and increased responsibilities in regard to housing are placed upon local Sanitary Authorities. The progress of new housing schemes in the County Area is reported in Table H.

Special reports received during 1919 from district Medical Officers of Health numbered 293, of which 101 referred to school closure owing to the prevalence of infectious disease.

The number of County districts specially reported upon as to their sanitary circumstances and administration by the County Public Health Staff is now 46.

From the Exchequer Contribution Account payments towards the salaries of Public Health Officials are made under Section 24 of the Local Government Act, 1888, to the Councils of 17 boroughs, 85 urban districts, 19 rural districts, and 2 port sanitary authorities. The total payments during the financial year ended March 31st, 1920, amounted to £16,897 16s. 6d., of which £6,962 7s. 10d. was in respect of Medical Officers of Health, and £9,935 8s. 8d. for Inspectors of Nuisances.

I take this opportunity of expressing my thanks to district Medical Officers of Health and their sanitary staffs for statistics and information supplied to the County Public Health Department during the year.

I am, Gentlemen,

Your obedient Servant,

J. J. BUTTERWORTH,

County Medical Officer of Health.

Public Health Department, County Offices, Preston, August, 1920.

THE COUNTY.

Area.—The area of the Administrative County on the 31st December, 1919, was 1,053,822 statute acres; no change affecting the area of the County took place during the year.

The area of each County district, as extracted from the Census Report, 1911, is given in Table B, page xvi.

Population.—Normally, the difficulty of a correct estimation of the population, both of the whole country and of the various administrative divisions, increases as the last census becomes more distant, and this difficulty has been greatly increased by the war, which has had the effect of rendering useless the methods usually adopted for this purpose.

The method which has been in use by the Registrar-General from 1916 onward—based mainly upon the National Register and the returns made under the scheme for the rationing of food—has been continued for the year under report.

The Registrar-General in a memorandum to Medical Officers of Health, March, 1920, states that the "death-rate population" excludes all non-civilian males, whether serving at home or abroad. This is necessary for the purposes of local death-rates, because it has proved impossible to transfer the deaths of non-civilians to their areas of residence, or to deal in any other satisfactory manner with the local mortality of this element in the population.

The "birth-rate (and marriage rate) population," on the other hand, is intended to include all the elements of the population contributing to the birth and marriage rates. It consists, therefore, of the death-rate or civilian population, plus all non-civilians enlisted from this country, whether serving at home or abroad. This non-civilian element has been distributed over all the districts in the country in proportion to their estimated civilian population.

The local populations, used for birth-rate purposes by the Registrar-General, and the civilian populations used for death-rate purposes have been furnished to the local Medical Officers of Health. The aggregate of the estimates for the urban and rural districts comprised within the Administrative County on the 31st December, 1919, are as follows:—

For calculating the *birth-rate* ... 1,732,056. ,, *death-rate* ... 1,662,716.

At the last census (1911) the enumerated population of the Administrative County was 1,739,320 (including certain Public Institutions), and since that date the excess of births over deaths has amounted to 87,487. By the extension of County Boroughs between 1911 and 1919, a loss of population, representing 40,240 persons, has been sustained.

The Registrar-General's estimate of the County population in 1919, for purposes of calculating the death-rate, is 124,171 more than his estimate for the preceding year, but is 86,943 less than the estimate of local Medical Officers of Health in the year preceding the war.

Table B, page xvi, shows the census enumeration of each borough, urban and rural district, and the estimated population for the year 1919 for both birth-rate and death-rate purposes.

The following table gives the area, population, persons per acre, &c., of the County on the 31st December, 1919, distinguishing the boroughs, urban, and rural districts:—

			Population.		Persons	Acres per Person.	
draw Mine	Area in Acres.	*Census,		nate of ion, 1919	per Acre.		
de To among	le suls i	1911.	For Birth- rate	For Death- rate	Calculated on Census figures.		
Municipal Boroughs (18).	77,983	546,183	559,254	536,866	7.00	0.14	
Urban Districts (85)	260,867	906,227	943,622	905,845	3:47	0.28	
Rural Districts (19)	714,972	232,708	229,180	220,005	0.32	3.07	
Administrative County	1,053,822	1,685,118	1,732,056	1,662,716	1.59	0.62	

^{*} Excluding certain public institutions, i.e., asylums.

Vital Statistics.—The system in vogue since 1916 under which the Registrar-General, through the County Public Health Department, supplied each district Medical Officer of Health with the details of the births and deaths registered in, or belonging to, his district, was continued in 1919.

The Registrar-General, in a memorandum accompanying the statistical information, directs the attention of Medical Officers of Health and others using the returns to "some points upon which experience has shown that misunderstandings tend to arise": e.g.—

"The numbers of births and deaths are those registered during the calendar year and are corrected for inward and outward transfers; they will differ, therefore, from uncorrected figures compiled locally either for the calendar year or for a period of fifty-two or fifty-three weeks."

"The 'classification' of some deaths is modified in the light of fuller information obtained from the certifying practitioner in response to special inquiries. . These possible sources of discrepancy between the returns of the Registrar-General and those compiled locally should be borne in mind, particularly in regard to the causes of death."

Births and Birth-rates.—The births registered in, or belonging to, the area of the Administrative County during the year under report numbered 28,799, or 1,063 in excess of the number recorded in the previous twelve months.

The sex of the children born is shown below :-

ACCESSION THAT SEEDING	Males.	Females.	Total.	
Urban Districts	12,679	12,250	24,929	
Rural Districts	2,006	1,864	3,870	
Administrative County	14,685	14,114	28,799	

The male births exceeded those of females by 1.99 per cent.; in 1918 this excess corresponded to 2.81 per cent.; in 1917 to 2.47; and 2.49 per cent. in 1916.

The following table shows the County, urban, and rural birth-rates for the year 1919, calculated on the estimated population supplied by the Registrar-General (see page ix); also the rates for each year in the preceding decennial period. For comparative purposes the birth-rates for the whole country are also given:—

			Rate p	er 1,00	o of th	e Estir	mated	Popula	ition.		
Progistared	1919.	1918.	1917.	1916.	1915.	1914.	1913.	1912.	1911.	1910.	1909.
Urban Districts	16.28	16.09	16.27	18-54	10.01	22.19	22'41	22.00	22.88	22.47	23.67
Rural Districts	16.88	16.06	16.08	18.59	18.95	20.95	20.86	21'42	21.12	22.22	22.91
Administrative County	16.62	16:08	16.52	18-54	19.78	22'02	22'20	22'00	22'64	22.48	23.2
England and Wales	18.5	17.7	17.8	21.6	21.8	23.8	23'9	23.8	24'4	24.8	25.6

The increase in the County birth-rate in 1919, as compared with the year 1918, corresponded to 0.54 per 1,000 of the estimated population,—in urban districts 0.49, and in rural districts 0.82—but the rate was 5.40 per 1,000 below that of 1914, the last year which so far as the births are concerned was unaffected by the war. It was 3.93 below the County average for the ten years 1909-1918, and 1.9 less than the provisional rate for the year 1919 for the whole of England and Wales.

The excess of births over deaths in 1919 was 5,405, as compared with an excess of about 17,500 ten years ago.

The mean birth-rates per 1,000 of population for the Administrative County for four quinquennial periods and for the year 1919 are given below:—

The acceleration in the decline in the *number* of births in recent years will be seen from the following table:—

Year.	Total No. of Births in County.	Year.	otal No of Births in County.
1911	 39,134	1916	 32,695
1912	 38,443	1917	 28,420
1913	 38,844	1918	 27,736
1914	 38,507	1919	 28,799
1915	 34,595		woted t

The average annual number of births during the years 1916-1919 was 29,412, a decline of 9,320 each year on the average of the last four pre-war years.

The births and birth-rates of individual urban and rural districts in 1919 are tabulated in Table B, page xvi. In 31 districts the number of deaths of civilians during the year exceeded the total number of births. The majority of the districts remain fairly constant, either with high or low rates.

The highest birth-rates in 1919 were recorded in Haydock 29.4, Upholland 27.4, Golborne 26.3, Widnes (B.) 26.0, Ince-in-Makerfield 25.3, Aspull 24.8, Adlington 24.1, Litherland and Skelmersdale each 24.0, and Dalton-in-Furness 23.9. Low rates obtained in Tottington 10.5, St. Annes-on-the-Sea 10.1, Lytham 10.0, Croston 9.6, Nelson (B.) 9.0, and Grange-over-Sands 8.9.

Illegitimate Births.—The births of illegitimate children in 1919 were 12 less than in the preceding year, viz., 1,519, against 1,531 The percentage of these births to total births was 5.27, as compared with a percentage of 5.51 last year and 4.48 in 1917.

Deaths and Death-rates.—As in the three preceding years, the deaths included in this report for the year 1919 relate only to those occurring amongst the civilian population, as it has been found impossible to transfer the deaths of non-civilians to their areas of residence; and the death-rates are invariably based upon civilian deaths and civilian population. The statistics given in this report, both County and local, are taken from Returns made by the Registrar-General.

The total number of deaths of civilians registered in the Administrative County during the year 1919, after making the necessary corrections for inward and outward transfers, was 23,394, or 3,169 less than the aggregate for the year 1918 (26,563). In 1917 there were 21,937 deaths registered, and 23,197 in 1916.

The sex distribution of the persons dying in 1919 is shown below:—

ent no very done 025.9	Males.	Females.	Total.		
Urban Districts	9,901	10,324	20,225		
Rural Districts	1,572	1,597	3,169		
Administrative County	11,473	11,921	23,394		

In the year 1918 the deaths of females in this County exceeded those of males for the first time since the year 1900. During the year under report (1919) female deaths were again in excess of those of males, the respective percentages being 50.95 and 49.04, a difference of 1.91. In the urban districts the excess of female deaths over those of males corresponded to 2.09, and in rural districts 0.79. In the whole Administrative County the deaths of females were to those of males as 1,039 is to 1,000—the ratios in the urban and rural districts being 1,042 and 1,015 to 1,000 respectively.

The County deaths at the various age periods are given below:—

Under 1 1 and 2 and 5 and 15 and 25 and 45 and 65 and Year. under 2. under 5. under 15. under 25. under 45. under 65. upwards. Total. 2,697 651 846 1,027 1,134 3,296 6,188 7,555 23,394

Table A is a classified statement of the causes of death in 1919, distributed in age groups and distinguishing the sexes, for the aggregate urban and aggregate rural districts.

The following table gives the County birth and death rates, and also those for England and Wales. The County

ADMINISTRATIVE COUNTY OF LANCASTER.

TABLE A.—CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE DURING THE YEAR ENDED 31st DECEMBER, 1919.

		No. 200		200	31s1	DE	CEMI	BER,	1919.		1								-	
				AGG	REGAT	E OF	URBA	N DIS	FRICTS	3.			AG	GREGA	ATE OF	FRUR	AL DI	STRIC	rs.	
CATIONS OF DEALER	ADMINIS- TRATIVE COUNTY.	0		100		Yı	ARS.			19			100		Yı	EARS.				
CAUSES OF DEATH.	TOTAL DEATHS.	Sex.	All Ages.	0-	1-	2—	5—	15-	25-	45—	65-	All Ages.	0-	1	2-	5—	15—	25	45-	65—
ALL CAUSES	23394	M. F.	9901 10324	1391	299 286	364 377	442	448 543	1329 1536	2781 2616	2847 3540	1572 1597	198 143	38 28	54 51	75 49	61 82	206 225	399 392	541 627
		Total	20225	2356	585	741	903	991	2865	5397	6387	3169	341	65	105	124	143	431	791	1168
1 Enteric fever	35	M. F.	15 15		**	**	2 2	5 4	7 2	1 6		4		11		2	1	2	::	
2 Small-pox		M. F.	1		**			**			**		**			::				::
3 Measles ,	130	M. F.	64	14 12	23 15	20 20	7 10			**	,	3 3	1 1	41	1				::	77
4 Scarlet fever	72	M. F.	24 43	1	2 3	7 23	14 17			::	**	3 2			1	2 1				22
5 Whooping cough	86	M. F.	20 53	14	6 14	9 24					**	3 1	1			1	::	::		11
6 Diphtheria and eroup	222	M. F.	86 115	2 3	5 7	39 37	37 64	1 2	2 2			9 12			4 8	4 3		1		
7 Influenza	2463	M. F.	937 1137	38	22 24	30 37	42 64	75	279 380	290 286	161 173	192 197	9 7	5	11	16 6	13 32	57 68	42 44	39 26
8 Erysipolas	34	M. F.	19 13		.:	1	1	1 2	3 4	11 2	2 2	1			**		::		1	
9 Pulmonary tuberculosis .	1339	M. F.	595 577	4 2	4	7 7	20 39	85 149	248 256	200	27 23	80 87			1		13 18	38 37	25 21	3 4
10 Tuberculous meningitis	101	M. F.	30 56	5 7	2 9	6 18	13 15	3 4	1 3			5 10	,		2 6	1 2	1	::		
11 Other tuberculous diseases .	257	M. F.	123 110	- 8	8 6	12 17	29 24	25 21	23 22	17 8	1 8	11 13	1 2		1 4	3	2 2	1	3	,
12 Cancer, malignant disease .	1793	M. F.	683 870		::	**	3 2	2 3	57 105	365 467	256 293	91 149	::		-		1 1	5 18	51 72	34 58
13 Rheumatic fever	98	M. F.	34 54				9 17	6 15	9 15	6 5	4	4 6			::	2 1	1 2	1 1	2	
14 Meningitis	159	M. F.	72 63	14	8 6	14	19	7 7	6 3	4 4		10000	7 2		3	4 2		2	1	1
15 Organic heart disease	2323	M. F.	855 1146	1	1	2	13	38 29	105 139	318	379 563	148 174	::	4	::	2 3	2 1	15 14	48 59	81 97
16 Bronchitis	2410	M. F.	971 1161	139	40	20 22	12	11 5	35 40	259 252	455 682	132 146	24 14	3 2	2 2		::	2 3	24 31	77 94
17 Pneumonia (all forms)	1940	M. F.	972 726	206	106 84	89 83	56 55	39 38	152 100	223 142	101	141 101	23 23	12	14	8 3	7 3	19 12	36 25	21 17
18 Other respiratory diseases .	313	M. F.	135 134	8 5	3 5	19 14	11	7 3	8 13	47 38	32 45	25 19	1 1		1 1	2	1 1	2 2	10	8 8
19 Diarrhosa, &c	460	M. F.	227 182	127 82	19 20	19	9	,	8	21	24 26	28 23	13 11	2 2	::	2 1	,	1 1	2 3	8
20 Appendicitis and typhlitis .	109	M. F.	59 34		::	3	18	15 12	11 6	11 6	1 2	9 7	::		::	6 2	1 1	2 4		::
21 Cirrhosis of liver	. 63	M. F.	36 20	::					6 3	21 11	9 5	4 3		**	::			::	3 2	1 1
210 Alcoholism	. 6	M. F.	4	::				**	2	2	::	2			::	::	.:	::	2	
22 Nephritis and Bright's disease .	609	M. F.	289 260	2	2 1	2 5	13	9 7	53 46	134 121	74 72	34 26	::			::	::	3 4	15 13	12
23 Puerperal fever	. 57 -	M. F.	48		::	**	::	12	36			9			::					::
24 Parturition, apart from puerpers	1 92	M. F.	80			::	::		70	1	::	12		::	::	::	3		***	
fever 25 Congenital debility, &c	. 1120	M. F.	559 420	546 411	2 3	5 2	5 1	1		1	::	81 60	81 56		::	2	::	::	::	::
26 Violence, apart from suicide .	662	M. F.	386 166	9	11 6	29 13	55 20	44	91 16	95 35	52 52	85 25			7 4	10 5	6 2	23 5	21 3	15 6
27 Suicide	. 176	M. F.	91 56				1	5 8	24 18	49	12 7	25 4		**		**		8 2	13 2	3
28 Other defined diseases	6091	M. F.	2530 2655	250 156	32	33 26	48	69 53	191 233	669 661	1238 1450	422 484	36 23	2	7 3	10	10 8	26 33	96 105	235 298
29 Causes ill-defined or unknown .	174	M. F.	76 70	3 3	3 6		5 3		8 11	38 36	19	13 15	2		::	2	2		6 3	3 4
	1	1	1			-				00									10-14	
Design of the last																				

The state of the s death-rates are calculated on the Registrar-General's estimate of the civilian population:—

adical manute malasti formati formati	might 10-0 and astor- my 2-0 and 121 pt 10 of Farghand and 1 10 of the character is	Birtherate per 1,000 of the Population.	Death-rate per 1,000 of the Population.	Death-rate from the Principal *Epidemic Discases.	Rate of Infant Mortality measured by the propor- tion of deaths of Infants under 1 year to 1,000 births.
dministrativ ty of Lanca	Urban	16.58	14.01	0.52	94
	Rural	16.88	14.40	0.31	88
	Urban and Rural Districts combined	16.62	14.06	0.49	93
	nd and Wales	18.5	13.8	ni ivelet ni ivelet nite (E)	89

^{*}Includes deaths from Diarrhœa and Enteritis under 2 years only.

The table below gives the death-rates of the County, distinguishing the urban and rural rates, and also the rates for England and Wales, from 1909 to 1919:—

- No manual	Death-rate per 1,000 of the estimated Population.													
Tipe Inight on I	1919.	1918.	1917.	1916.	1915.	1914.	1913.	1912.	1911.	1910.	1909.			
Urban Districts	14'01	17.40	14.05	14:47	15.60	14.17	14'39	13.76	15'33	12.83	14.08			
Rural Districts	14'40	r6:41	13'56	13'32	13'57	12.23	13.00	12.60	13'25	12.09	13.11			
Administrative County	14.00	17.26	13.08	14.31	15'32	13.95	14.30	13.61	15.02	12.73	13'96			
England and Wales	13.8	17.6	14'4	14.0	14.8	13. 7	13'4	13.0	14.6	13'4	14.2			

Comparison of the death-rate with previous years is still affected by the changes in the constitution of the population owing to the war, but perhaps not to such a marked extent in 1919 as in the preceding two or three years.

The County death-rate for 1919 was 3.20 per 1,000 of the estimated population below the rate of 1918, the decrease in the urban districts being 3.39 and in the rural districts 2.01.

As compared with the average for the past ten years, the County rate in 1919 was more favourable to the extent of 0.37 per 1,000, 0.59 less in the urban districts, but 0.06 higher in the rural districts. The County rate in 1919 was 0.2 per 1,000 above the provisional rate for the whole of England and Wales.

The marked fall in the County death-rate, as compared with 1918, was mainly due to the reduction in the number of deaths from influenza 2,029, pneumonia 664, whooping cough 392, pulmonary tuberculosis 313, &c.

Details of the deaths in the various sanitary areas, classified under 29 headings, are given in Table B, here inserted, and the mortality rates of each district in 1919 are compared with the preceding year and the mean of the decennial period 1909-1918 on pages 1 to 42.

The highest district death-rates in the year under report were attained in Fulwood 19·2, Radcliffe 18·3, Ormskirk 18·0, Morecambe (B.) and Whiston (R.) each 17·8, Longridge 17·3, Ashton-under-Lyne (B.) 17·1, Farnworth and Whitworth each 16·9, West Lancashire (R.) and Wigan (R.) each 16·8, and Heysham 16·7.

The annual death-rate of a district with a comparatively small population is liable to considerable fluctuations, and is not a reliable index of the state of health amongst its inhabitants. The following County districts have the highest mortality averages extending over a period of ten years:—Lees 19·2, Ince-in-Makerfield 18·6, Whitworth 17·9, Ashton-under-Lyne (B.), Heywood (B.), and Wardle each 17·5, Kirkham 17·4, and Royton and Widnes (B.) each 17·3.

Low rates in 1919 were recorded in Urmston 11·5, Fleetwood 11·4, Brierfield 11·3, Eccles (B.) 11·1, Adlington and Horwich each 10·9, Trawden 10·8, Rishton 10·5, Great Crosby 10·3, and Little Crosby 6·8. Covering a period of ten years, the County districts with the most favourable death-rates were—Little Crosby 10·3, Great Crosby 10·5, Formby 10·6, Urmston 10·8, St. Annes-on-the-Sea 11·0, Preesall 11·1, Nelson (B.) 11·5, Adlington and Stretford each 11·6, Carnforth and Rishton each 11·8, and Lunesdale (R.) 11·9.

TABLE R. BISTRS AND DEATHS REGISTERED DURING THE YEAR 1919 IN THE URBAN AND RUBAL DISTRICTS OF THE ADMINISTRATIVE COUNTY OF LANCASTEB; ALSO THE AREA AND POPULATION OF EACH DISTRICT.

Comment at all ages.

Extension of Coulty
Expenditure for 1279

Comment for 1279

Co | Number | N Piloth 170-mile 180-mile 180-mile 190-mile 190-mi 95 072 66 286 7500 114 287 296 69 69 400 286 110 1002 7183 27 181 47
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82 8 30 2 18 27 7 0 0 13 2 2 3 2 3 2 3 2 3 0 0 7 7 8 0 1 1 7 7 0 67 3 29 70 14 22 7 7 13 6 4 20 6 40 0 1 1 1 2 2 8 2 8 0 66 ... 21 98 10 21 9 47 9 6 66 61 12 0 15 15 15 1 22 13 50 5 31 77 20 17 8 12 3 1 1 2 10 31 11 1 12 12 2 18 1 4 20 4 5 2 17 5 1 4 13 10 2 1 2 1994 3417 1002 4221 1343 1996 2265 1241 4290 2392 807 1360 2082 1009 2082 1009 2082 2082 2082 2082 2082 2082 2082



TABLE B.—Con	tinued.				ľ	1	ı		ı			8	8		ı	į								14	ı		í	Ä					,											-	
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URBAN DISTRICTS.	Acres.	Census.	Population		Be	egistered		*Birth.	H	egistered.			Number No	west 1		Tables Spirite Spirite Death said	-	20	6 -	The same	131	1 1	4	alosa rotte	1 3	1 80	all a	2	2 4	3	Part I	1	祖 [and a	18	33	3	38	9.5	16	4 3	4 31	2		5
		2911.	Birth-	Death-	M	P.	Disk.	1,000.	M.	P. 1	Total.	per Loon	under m	dans in	=	pay Lone.	and and	3	feed of	THE.	自見	4	100	there aber	die pe	11	Page 1	9	100	Profession of	10.00	Uber of	額	To the	See H	葛	Fi		39	All	1 3	A I B	137	# 1	2
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Escles (Borwagh)			44178		343	307			232	234	473				0-24	0-10			4		0 9	34	1	41	1 1	- 14		3	44	45	34		4	4	. 1	30	1	2	19	19	1 12	24	1		1
Pailrworth	1072	15998	17452	16583	160	124		15-3	97	99		11-6			0-01	1-24	1					17		21		14			17	17	11	1	2	3			2	2	10	4	3 1	16 /			
Yacuworth	1804	25131	28922	27827	267	225	493	17-0	240	222		16-0			0-64	107			10			67		30		36		1	20	47	49	2		2					26	24	3 11	14	1		
Entwool	2510	15975	11905	19149	179	374	553	19-6	194	104	201	114	41		0-11	0.71					1 3	14		13		14	-2	1	19.	21	11	3	3	1 .	. 1	100	1		19	4	2 /	4			
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Fulwood	2316	10071	4715	4526	24	20	20	10-6	34	63	87	19-2		180	944	-						. 3		4					5	15	2	2	2			100	No.		5	2	. :	29 1	2 .		
Galborne	1879	0931	7250	6960	39	92	2-1	26-2	48	- 55	99	164	20	104	6-21	0-24			1			. 11		2		1 4			12	10		2	1		1	No.			13	2		22			1
Grange-over-Sands	1862	2232	1990	1934	14	- 3	17	24	. 6	22	28	15-6	NI.	NIL	No.	9-55						. 3		1.		. 4			6	2				1	1	1					1	2 /			
Great Croeby	1867	12273	13866	13023	134	85	210	16-1	76	85	135	10-3	29	86	0-0-3	0-69			2	1		2 14				. 3	2	3	14		17	1	2				A				1	55	1 7		
Great Harwood	2868	12810	19222	17225	101	160	201	15-0	79.	88	167	12-6	14	67	0-15	4-52					1 .	. 10	1	3	1	: 12	1		14	#1	16	2		2	1		2	1		4	1 1	44	1 1		
Haslingden (Borough)	A196	14719	19126	17000	100	114	214	11-8	129	337	266	15-2	26	120	0-43	0-51	1				1	8 33				1 19		1	52		17	3	1	1					14	2	1 1	83	8		
Haydook	2411	3549	10045	2682	139	150	297	29.4	72	65	142	144	-26	94	0:72	1:54					1 .	. 24		15	1 3	. 3	2	2		11	12	2	6	2		100	1		12		1	22 .			
Heysham	1835	3350	3804	3668	20	21	41	10-7	25	36	61	10.7	1	24	Sit	1-00						. 3	1	4		1 2			20	.6	3	1		1					1	1		32 .			
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Hindley	2612	24300	24553	23508	265	255	802	22-4	148	168	316	13-3	85	99	101	4-50	100			1		2 4	0 2	12		6 36		2	31	34	29	4	12	1		100	1	2.	20	25	1	74		1	
Horwich	3257	16265	18619	14094	130	121	251	16-0	26.	**	264	10-0	. 2	27	0.16	0.93	1					3 2	6	14		. 11		1	15	12	12	4	2		1 4	114	1	1	3	3	3	34			
Burst	634	7856	8077	7754	76	78	304	19-0	24	49	163	13-2		25	0.28	0-24			1	1		1 1	0 1	7		1 3				24	7	2			1	100			4	2		11 .			
Huyton-with-Roby	3003	4559	4877	4394	- 54	33	92	19-0	25	25	- 60	12%	6	66.	200	9-91	1 34					. 3	2	4	1	2 2	100	100	4		4	3							3	2		20 .	4 1		
Inor-in-Makerfield	2320	20934	22720	21810	330	267	877	25-3	160	175	344	16-7	75	129	0:24	9-27	1		1	1		2		17	1	2 18		1	16	60	43	3	4	1	1	1	1		33		1	67	6		
Iriam	4629	6366	9173	8800	82	10	162	17-6	62	4.5	102	12-1	21	129	024	0-31							7	3		2 1	100	1	4	15	18	2	2			4 8				4	1	30 .		1	
Kearsley	1004	9669	9761	1070	123	86	20+	21-3	67	83	149	18-9	19	91	0-04	0-43	100		1	1		3 2		4		1 5			14	16	9		1	2		1		1	1.5	5	2	33	2	100	**
Kirkhem	807	3793	3836	3682	24	.01	81	13-11	20	25	58	15-7		156	954	0-61			44			2	2	1		2 1	1 4	1	2	4	- 4					1			2	1		22	1 .		
Lancaster (Borough)	3306	136513	16321	36291	347	336	645	17-8	213	366	539	16-6	65	94	0-08	1-1-			9	1		2 3	2	42	2	13 4	2 3	5	70	44	34	5	1	4	1 1	1 4	2	2	27	30	4 2	26	1	1	
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TABLE B. Con	itmued.														10											-														
		Popula	tion at all	ages		Birsh	2			Deaths		Infant	Mortality.													Men	STALLTY P	849 KE	DOCUMED!	Catata.					-			7	- Etparal	passe included
CREAN DISTRICTS.	Area in Statute Acres.	Cenaus.	Estimate Population	6 fee 1919		imber gistered		Birth-		intered.	†Death	Numbe	Servicine per Line Englishment Status	Part of the last o	Spinor Spinor Spinor Spinor Spinor	100	1 por	1 7	- de	theris roup.	sola.	secure sections	reedens aging	-	matte	and a	20.1	settle.	format.	State Control	splicities typhilities	family of the latest	of the same of	the state of	Santonia .	diny, An	4	ar datas	alone,	44
		1911	Birth-	Death-	M.	P.	Seal	1,000.	35.	F. 2	stal. 1,000	under One Yes	Bathe.	Photos	19	Rebe	Speak	Mensel Mensel	The state of	100	tide a	24	Tube	1	III.	K I	Organia disease	1 1	Sall Sall	2 31	And	Ilyan Ilyan	1 22	23	222 2	3 21	12	900	3 343	21
Lathon and Bursough	13641	7235	7262	6915	50	69	130	19-2	46	10	100 15-	.13	93	0-57	9-21			1	1	. 1	.11	3	2				11	20	10	. 1	1	1 .		100		3 7		23		
Lore	266	3650	4900	1200	34	43	20	15-9	33	45	70 10	1	10	0.42	04			1			n	. 3	1 2	100	2		16	3		1 1	1		. 3			8 "		16	1 "	
Leigh (Borough)	6359	44300	46322	44464	518	400	200	21/2	351	222	600 15-	100	201	3-43	3-10	1		24	1	2 10	95	1 50	1		39 1		66	1/2	50	7 27	1		ii 31	167	1	31 14			3	
Leyland	3725	5055	9244	6574	26	74	332	14-2	52	04	110 13-	15	113	0-11	1-11	20				. 1	13	10	1000	20	8 3	1 1	13	11	11	3			. 3	Ber V			1	20	3 "	
Litherland	657	14790	17525	16623	199	223	422	24-0	124	121	251 16	31	85	1-01	1-3			1		. 3	32		3 3	- 10	19	1 1	17	15	29	7 3				100				80		
Littleborough	7556	11697	11676	11209	85	90	275	140	71	112	183 16	1 11	85	0-21	0-0	1 1				. 2	13		7 2	-	7 1	3 8	14	24	9	4	1			100			2	74		
Little Crosby	1924	***	913	926	12	6	- 18	19-7	- 4		8 6		NO.	NI.	N									22	1 0												3 "	3	4 **	
Little Hulton	1099	8105	4153	THRE	26	67	142	17-6	54	53	107 13	14	97	6-21	1-0	2 1				. 1	14		1	100	3	1	8	28	11	3		1	1 3	200	2		3 3	21	A	
Little Lever	105	5194	4602	4000	41	29	120	14-0	.57	37	24 10	1	100	1-50	0.5	6		2		- 4			4 1	100	4	1	3	12	4	2				100			6 3	18	" "	
Longridge	3265	4340	4230	4041	33	33	-	15-6	39	23	70 17		121	0-21	1-3	3				. 1			2	-	8 -	. 2		3	9	3			2	1000			3 "		3	
Lythaus	2654	9463	10227	2919	24	45	260	10-0	62	10.	138 14		87	1-43	0.4	0 2		1	2	3 3	n	1	4		17	1	18		10	22 4		3		1000			3 "	28	3	
Middleton (Borough)	4775	27990	28872	27716	208	199	407	14-0	199	201	390 14	31	76	914	04	8		9		. 2	33	1 1	9 4	- 38	26	3 5	84	43	18	3 1	1		24			17 1	Service of the last	207	0	
Miletow	5194	6584	8355	+021	- 52	62	119	14-2	- 67	49	106 13	1	60	0:31	-14	2 1		1		. 1	14		9	100	9 0		3	39	8	2 0			17			*		80	1 "	
Morroscobe (Borough)	1803	12131	13925	13366	100	204	204	14-6	112	127	230 17	6 11	83	No.	200	17. 10.					40		9		14	2	57	23	*			2	**	100		1200	01107			
Museley (Borough)	3624	13205	12432	12323	104	111	222	17:2	11	108	199 13	3 16	63	0-10	0.0	6		1		1	20	1	2	100	13	=	25	28	2				* 1	4 1		11		127		
Nelson (Borough)	3466	38429	43172	43444	199	190	-391	9.0	200	254	484 11	8 21	69	0.21	0.1	16				4 4	40	1	6 3		29	1 3	62	68	44	30		310	***		2	100	Sales of	41	1 3	
Newton-in-Makerfield	3105	15451	19940	19048	23.5	197	402	20-2	110	200	245 13	0 43	100	0-51	0-1	18			2 .		27	10 3	15 1	112	21	3 4	22	*	32	3		3		7 1		17	All IN			
Sarden	5358	3797	4533	3873	24	25	- 62	19-1	25	29	54 13	9 1	102	0-21	0.0	10			1 .		1		1	100	2	2	2	*	3					1000		3 3	3 10	23	3 1 10	
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Orrell	1617	6316	6244	6666	-	64	134	19-5	12	- 61	63 12	4 11	88	0-41	01	10			L	1	3		9	10	2	1 2			2	3				-		-	1	33	1	
Oswaldtwistle		18714	14960	14300	121	1110	239	15.9	103	122	725 16	6 3	133	0-0	100	18 1		1			23	1	7 10	100	18	1 3	32	24	19		h					11	3 10	10	3 3	
Padham	920	13635	12926	17409	304	93	197	10-2	100	87	190 18	3 1	80	0-21	1.00	18				3	16		11 1		13		23	23		3 3		1		1		STATE OF THE PARTY.	ALC: Y		200	
Poulton-le-Fylde		2424	1500	2495	21	16	45	15-7	17	18	35 14	0 2	73	0-41	N	IL									2			2		1						"		11	1	
Proceedl	3232	1718	1605	1841	13	16	29	15-0	11	9	20 13	9 3	68	Ni	. 0	54					2		1 -					2							1	10	1 %		-	
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		Popula	tion at all	ages.		Birt	4			Deat	4		Infant Meet	ality.													Mon	MATT P	-	-	Carres					-			. 4	- 15	midal mireo	
URBAN DISTRICTS	Arra in Statute Acres.		Katimate Population	of Civil	112	Sumber agistered		Dirth.		innbit gistered.	,	Death	Number w			Teles-		040	1	7	944	1 1	100	100		affe	dills.		Dis.	tini)	10	Apple Apple	also of	11	To the	1	Tr. Box	1 4	define	1 0	in temps	- #
		INGL.	Mirth-	Per Death-	M.	2.	Satul.	740r 300 1,000	M	P. 1	Dotal.	per 1,000.	Deaths under	September 1	MILE.	Breth rate per Line.	Enterly ferrer.	Soully	Meado	Whosp rough.	Dighth and ore	Erreip	Pulsos	Tubero receipt	1	Beer.	Messley	Change	Dressed	(all for	Party &	Appen	Climber.	Alone Figure	E S	111	debiliti	States .	Other	Corel Core	10	Paris I
Hadeliffe	3052	25691	24428	22450	195	176	2011	10-1	204	223	431	19-3	26 [102	P11	0-93	10			4	2	30 2	22	1		2		35	80	49	4 6	2	1 .	13	1		16 1	12 3	103			
Hainford	8877	3503	3448	3310	35	31	-	19-1	24	16	40	120	3	45	Nil.	NIL						6 .		1		1 2			4								1		13	100		
Ramibottom	6423	15146	15310	14697	100	110	210	13-7	92	1111	211	14:3	10	11	0.40	0-74	1			1	2	n	11		8 2	1 1	2	12	13	17	1 1	1	2	14	-			4 2	61	2		
Eawtrestall (Borough)	9535	30516	25121	27379	192	167	216	12-0	164	189	353	12-0	20	45	0:23	1-02			1	1	3	34 1	28		2 1	1 1	4	37	34	16	12 1	1		13	1	1		4	124	3	3	
Richton	2965	7441	7611	7306	46	60	104	13-9	36	41	22	10-5		86	041	0-41					1		3	1		1			4		. 2	1	2		100		8	B 375	15	1		
Royton	2147	17049	18283	17881	114	100.	219	11-0	116	123	220	13-6	31	141	0-61	0.25			3				14	40	2 1	1 1	1	29	25	14	4 4	1	1 :		1	1	12	2 0	CS.	1		
St. Annes-on-the-Sea	3342	9937	1009	1040	43	58	201	10-1	43	23	126	14-2		29	1-04	0-13				1		17		1	2 1	2	1	10	4	4	2	2		. 2	1 100		6	3 3	- 65	2		
Stelmendale	1942	6622	6650	6422	27	94	261	24-0	45	45	113	16-6	11	93	1-00	046	1				1	20	2	2	4			9	9	11	8			1	2		4	3 3	21	1		
Standish-with-Langtree	3264	7250	7379	6966	62	61	100	20-6	62	37	104	14-6	23	163	995	9-42	-			2 4		37	3	1	1	6		3	2	10	1 4	1		3	80		5	4 3	26	3		
Streslord	3240	42496	47506	45603	266	326	612	12-8	275	297	561	12-3	47	76	0-21	0-94	1 1		2	. 1	2	64 :	2 44		12 1	3	5	65	41	39	9 4	3	1	10	2	2		14 2	101	1	3	
Swinton and Pendlebury	2284	30759	29318	28144	275	276	241	16-7	119	182	380	12-0	13	96	0:14	0-65	1		4	9 3	1	31	24	1	2 3	T 3		25	43	29	3 3	2	1	- 10	100	1	25	11 3		10		
Thorston	2996	4000	8331	5118	41	40	-	16-5	24	25	63	12-3	7	79	0.30	0-26	1			2		5 .	. 3		23	7 40		4	10	6	2			** 1	-			1 17	19	*		
Tethington	2044	1769	2047	6765	33	41	74	10-4	46	52	98	16-4		¥1	1-03	1-16				2 1		12 .		1	1	1 1		11	3	9		1		3	1			3	28	1		
Traveler	6815	2963	2779	3664	20	18	28	13-6	17	12	29	10-8	1	26	937	974	1				1	\$.	. 2		1	3		3	3	3				3	20			" 3	- 5			
Terion	17335	12645	12461	11962	94	67	151	10-1	79	42	161	13.4	20	66	0-31	0-41					3	16 .		1	2	6 3		10	19	0	2 1	1		- 1	-		3	3 "	61	180		
Tyldesley-with-Stakerley	2490	11042	16335	15004	164	188	354	21-9	133	115	244	15-6	41	1111	0-83	1-04	1		2		3	23 .	. 17	1	3	2		25	16	41	3 1		2	44	4 1	1	13	* 3	1 60	100		
Coversion	3172	1000	10369	9973	112	103	235	20-6	65	74	143	14-3	24	65	0-01	040					1 3	12 .			1	2 3	2	17	11	3	1 :	2			1 20	1		2 3	5 54			
Upholland	4656	5233	8279	5068	77	88	145	27-4	31	29	60	11-0		65	0.21	0.19					1	15 .	. 1		**	2 1		4	9	3	1 1	1			3 120		2	4 "		**		
Urmston	991	7912	8720	8971	64	52	116	15-5	44	53	92	11-0		34	0-23	0-53	1			1		9 .			**	7		14	10	10	2 .				2 1		3	3 3	2 24	1		
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Waterloc-with-Sesferth	104	26306	29495	25006	272	281	ANT	16-6	210	211	421	16-0	41	33	997	1-10	-		2	0 1	1 .	40	. 33	3	3	14 1		33	28	44		7 1		1	13		12	17	3 108		-	
Westhoughten	5560	12046	15609	15170	173	150	231	20-9	97	95	192	12-6	33	10	0-21	9-21		++				32 .			1	12	2	13	22	16	2 .				1 2	1	14	1	4 45		1	
Whitefeld		6967	1730	7428	43	43	94	10-4	46	60	96	12-9	10	104	No.	940			**			5	. 6		3	10	1	16	13	10	3 .								20			
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Widnes (Borough)		31541	34002	32689	481	430	987	20-0	294	257	541	16-5	60	90	1-42	1-21	1 1	-		2	2 6	15	. 91	1		24 :	6	21	20	54	18	7 2		- 64	3 2		33	13	4 110	3		

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				14449				11-0	14	100	204	14-1	23	200	0-11	0-41								1						26				1	4	-	45		200			146		-
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ton					236	202	638	12-2	111	167	325	17-8	45	105	0-10	1:26				2	2	1 -	14 3	24	2	400	19 3				**	3	-	1 1			2	151	18					
	11695	6327	6120	8935	62	46	108	17-6	55	43	69	16-8	12	111	0-61	0-01	1						17	3	1	3	2 1		- 6	14	13	1	3 .		-		-			-		26	-	
onal Districts	T14972	232708	229180	120605	2006	1964	3670	10-8	1172	1897	3169	14-4	341	55	69-31	0-25			6	5	4	21 3	19 2	167	15	24 2	10 1	24	222	276	242	44	28	16 2	2	60	2	12	161	110	29 1	2 629	43	
rban Districts													2356	94	90-02				324	42				1172	14. 3	10 15	55 8	6 120	2001	2132	2001	209	248	13 54		311	48	80	909	552 3	147 30	160 16	41.7	18
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Transferable deaths.—During the year under report the following transfers have been made:—3,214 persons, who, having a fixed or usual residence in the Administrative County, died in a district other than that in which they resided, and these (known as inward transfers) have been allocated to their proper districts; 4,015 deaths occurring in the County area of persons not belonging thereto have been outwardly transferred.

Infant Mortality.—The number of deaths in the Administrative County during the year 1919 of infants under the age of one year was 2,697, or 11.52 per cent. of the total deaths at all ages.

The total number of infant deaths in 1919 in the County was below that of any previous year.

The main causes to which the infant mortality was attributed are shown in the table below, which contrasts 1919 with the four preceding years:—

1 10 10 10 10 10 10	ET 9	Death	s under 1	year.	
Cause of Death.	1919.	1918.	1917.	1916.	1915.
All Causes	2697	2779	2748	3242	4130
Small-pox	11.20			1	f
Measles	28	54	75	67	183
Scarlet Fever	1	1	3	2	5
Whooping Cough	25	184	-86	108	145
Diphtheria and Croup	5	11	5	5	10
Erysipelas	3	3	7	5	8
Tuberculous Meningitis	13	19	23	18	38
Other Tuberculous					
Diseases	21	21	31	29	58
Meningitis	37	34	50	47	70
Bronchitis	288	265	286	334	390
Pneumonia (all forms)	352	344	334	376	509
Diarrhœa and Enteritis	233	229	221	371	548
Congenital Debility, Mal-			181	BL-AB	
formations, Prema-	d marin		Allen		
ture Birth, &c	1094	1002	1026	1200	1445
Other Causes	597	612	601	679	721

The County infant mortality rate corresponded to 93 per 1,000 registered births (urban districts 94, rural districts 88), the lowest rate ever recorded. Last year the rate was 100, 96 in 1917, 99 in 1916, and an average of 113 for the ten years 1909-1918. The County rate for 1919 was 4 per 1,000 in excess of the rate for the whole of England and Wales.

The following table gives the infant death-rates for the Administrative County, and those of England and Wales for the years 1909-1919:—

The same of the sa		Rate	of Dea	aths of	Childr	en und	ler i Y	ear to	,000 B	irths.	
	1919.	1918.	1917.	1916.	1915.	1914.	1913.	1912.	1911.	1910.	1909
Urban Districts.	94	101	96	101	123	115	128	106	148	121	119
Rural Districts	88	90	94	82	94	96	100	89	III	93	87
Administrative County	93	100	96	99	119	112	124	104	144	117	115
England and Wales	89	97	97	91	110	105	109	95	130	106	109

In the table below the infant mortality in 1919 is contrasted with the four preceding quinquennia:—

	0 10 00	INF	ANT MORTAL	ITY.
108 145	Birth-rate per 1,000		eaths under Year.	Percentage of Infant
Years.	Estimated Population.	Per 1,000 Births.	Per 1,000 of the Estimated Population	Deaths to Total Deaths
1899—190	3 26.81	155	4.17	25.58
1904—190	8 24.94	136	3.43	23.37
1909—191	3 22.57	120	2.73	19.67
1914—191	8 18.53	105	2.10	14.17
1919	16.62	93	1.62	11.52

It will be observed that the gradual reduction in the infant mortality rate is coincident with a continuously falling birth-rate, the decline in 1919, as compared with the first quinquennial period shown (1899-1903), being 38 and 40 per cent. respectively.

In four County districts the infant death-rate in 1919 exceeded 150 per 1,000 births, in 40 districts the rate was between 100 and 150, in 68 between 50 and 100, and in 10 districts a rate of less than 50 was recorded.

The highest infant death-rates in 1919 were recorded in Fulwood (9 deaths) 180, Clayton-le-Moors 159, Kirkham 156, Standish-with-Langtree 153, Church 149, Blackrod 144, Royton 141, Oswaldtwistle 133, Aspull and Carnforth each 132, and Haslingden (B.) 130.

Low rates prevailed in Urmston 34, Formby 28, Horwich 27, Trawden 26, Heysham 24, Withnell 23, Wardle 22, Grange-over-Sands and Little Crosby each nil.

Infant mortality in comparatively small districts is liable to annual fluctuation of considerable range, but in the following districts a high infant death-rate is obtained over a period of ten years:—

Lees			163	Orrell		 147
Kirkham			159	Farnworth		 146
Ince-in-Mak	erfield		152	Skelmersdale	е	 143
Ashton-unde	er-Lyne	(B.)	148	Hindley		 142
Leigh (B.)			148	Aspull		 141
Golborne			147	usw V		

Notification of Births Acts, 1907-1915.—The County Council is the Local Authority for the Administration of the Notification of Births Act, 1907, for the sanitary areas in which that Act had not been adopted at the time the 1915 Act became operative. This area consists of 79 districts, and, in addition, two other districts in which the Act had been adopted by the Local Authority are, by arrangement, included in the County Council's child welfare area.

From the above-mentioned area—81 districts—notifications were received in 1919 by the County Medical Officer of Health respecting 12,418 births, and copies of these were forwarded, week by week, to the County Health Visitors. The actual number of births registered in these districts totalled 12,618.

Maternity and Child Welfare.—Health Visitors.—Maternity and Child Welfare work in this County was carried out as under on the 31st December, 1919:—

	Estimated Population for calculation of Birth-rate.	No. of Births registered in 1919.
By Local Sanitary Authorities—in 53 districts (17 boroughs, 35 urban and 1 rural district) By the County Council—in 69 dis-		18,848
triets (1 borough, 50 urban and 18 rural districts)	594,099 .	9,951
	1,732,056	28,799

The table below shows the action taken, up to 31st December, 1919, by Local Sanitary Authorities in the establishment of Child Welfare Centres and the appointment of Health Visitors:—

District.	Mother and Child Welfare Centre.	Health Visitor appointed.
Abram	Infant Welfare Centre	Whole time
Accrington (B.)	Do.	Whole time
Ashton-in-Makerfield	Do.	Whole time
Ashton-under-Lyne(B.)	Two Do.	Whole time (3)
Atherton	Do.	Whole time

District.	Mother and Child Welfare Centre.	Health Visitor appointed.
Bacup (B.)	Infant Welfare Centre	Health Visitor also acts as School Nurse.
Brierfield	Do.	Whole time
Chadderton	Maternity and Infant Welfare Centre	Whole time (1) Part time (1)
Chorley (B.)	Two Maternity and Infant Welfare Centres. Night and Day Nursery at Moss Cottage, Eaves Lane, opened November, 1919	Whole time (2)
Clayton-le-Moors		Whole time
Clitheroe (B.)	Maternity Centre	Health Visitor also acts as School Nurse
Colne (B.)	Do.	Whole time
Crompton	Infant Welfare Centre	Whole time
Darwen (B.)	Two Maternity and Infant Welfare Centres. Day Nursery	Whole time
Denton	Maternity and Infant Welfare Centre	Whole time
Eccles (B.)	Mothers' and Babies' Welcome Club	Maternity Superintendent and two whole time Health Visitors
Failsworth	Infant Welfare Centre	Whole time
Farnworth	Maternity Centre ·	Whole time (2)
Golborne		Joint with Haydock
Great Harwood	Maternity and Infant Welfare Centre	Part time
Haslingden (B.)	Infant Welfare Centre	Whole time

District.		Mother and Child Welfare Centre.	Health Visitor appointed.
Haydock		estrectionally terminal	Joint with Golborne
Heywood (B.)	7.	Infant Welfare Centre being established at the Central Council School	Whole time, to commence duty April, 1920
Hindley		Maternity Centre. Ante- natal Clinic	Whole time (1) Part time (1)
Horwich		Infant Welfare Centre	Whole time (2)
Hurst		School for Mothers, and Infant Con- sultations	Whole time
Ince-in-Makerfield		Two Infant Welfare Centres	Whole time (2)
Irlam		Maternity Centre in each Ward—Irlam and Cadishead	Whole time
Lancaster (B.)	W	Mothers' and Babies' Welcome	Four Health Visitors who also act as School Nurses
Leigh (B.)		Babies' and Mothers' Welfare Centre	Whole time (2)
Littleborough		And Street of the Street of th	Joint with Milnrov and Wardle
Middleton (B.)		Infant Welfare Centre	Whole time
Milnrow			Joint with Littlebor ough and Wardle
Mossley (B.)	22	Maternity and Infant Welfare Centre	Whole time
Nelson (B.)		Infant Welfare Centre	Whole time (2)
Newton-in-Makerfie	eld	Do.	Whole time
Orrell	···	Do.	District Nurse acts a Health Visitor

District.	Mother and Child Welfare Centre.	Health Visitor appointed.
Oswaldtwistle	Infant Welfare Centre	Whole time
Padiham	Maternity and Infant Welfare Centre	Whole time
Prestwich	Two Infant Welfare Centres	Whole time
Radeliffe	an' dan sant all	Whole time
Ramsbottom	Infant Welfare Centre	Whole time
Rawtenstall (B.)	Three Infant Welfare Centres	School Nurse acts as Health Visitor, assisted by six part- time District Nurses who give half day per week
Royton	Infant Welfare Centre	Whole time
Stretford	Baby Clinic	Whole time
Swinton & Pendlebury	Baby Clinic and School for Mothers	Whole time (2)
Tyldesley-with- Shakerley	Maternity and Infant Welfare Centre	Whole time
Upholland		Part time
Wardle	Word Thomas Link	Joint with Milnrow and Littleborough
Waterloo-with-Sea- forth	Maternity and Infant Welfare Centre; also School for Mothers	Whole time
Westhoughton	Infant Welfare Centre	Whole time (2)
Widnes (B.)	Three Infant Welfare Centres	Whole time (3)
Barton-upon-Irwell (R.)	Infant Welfare Centres at Clifton, Davy- hulme, and Flixton	Whole time

County Council Scheme.—The Medical and Nursing staff of the School Medical Department and the Maternity and Child Welfare staff of the Public Health Department were amalgamated on the 1st April, 1919. By this arrangement an end was put to an arbitrary division of work which could not be defended by any argument of economy or efficiency, and for the future the child will be under the supervision of one set of officials from birth onwards. Even the ante-natal life of the child is an object of the care of the combined department, and at the Child Welfare Centres which have been established, and in the Home Visits made by the nursing staff, advice and supervision is given to expectant mothers.

Complete co-ordination with the Public Health Department is ensured by the fusion of the Medical and Nursing staffs. The County Medical Officer of Health is also the School Medical Officer, and the Assistant School Medical Officers are also the Assistant County Medical Officers of Health, while the School Nurses are also the Health Visitors.

The following is a statement of the work done by the County Nurses during the twelve months ended 31st December, 1919:—

Home Visits-No. of first visits 9,610 No. of revisits ... 28,121 No. of individual children referred to in the above re-visits 25,540Ante-Natal Visits-712 No. of visits to expectant mothers Other Visits-Special visits to older children, local Medical Officers of Health, &c. 1,273 Special visits to cases of ophthalmia neona-193 torum and other cases ... Reports to Central Office re insanitary conditions 133

M. CHILD WELFARE CENTRES

SIRI

	December,		April 1			
	dec0.					
		13				
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TABLE E.

STATEMENT SHOWING SALES OF DRIED MILK Etc., AT THE CHILD WELFARE CENTRES DURING THE YEAR ENDED 31st DECEMBER, 1919.

			ek during year.				Dis	posed of					k on hand December,
Centre.	Foodstuffs, &c.		year.	A	t Cost Price or	Over.	At	Less than Cos	t Price.		Free.		1919.
		Lbs.	Cost.	Lbs.	Amount received.	Profit.	Lbs.	Amount received.	Loss.	Lbs.	Loss.	Lbs.	Cost.
Adlington	 Glaxo	 1392	£ s. d. 139 12 0	1359	£ s. d. 136 6 10	£ s. d.	1	£ s. d. 0 1 0	£ s. d. 0 1 2	19	£ s. d. 1 14 10	13	£ s. d. 1 8 2
Audenshaw	 Nestles' Milk Virol Cartons	 2116 432 144 168 144 60	199 4 0 43 12 0 8 0 0 9 0 0 0 12 0 4 19 0	1923 402 69 1233 43 10	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	 0 6 5½ 3 13 11½ 0 0 4	 42 	2 5 10½ 	0 3 21	121 2 	12 14 2 0 4 0 	72 28 33 44§ 101 50	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Bamber Bridge		 816 192 28 276	83 12 0 19 4 0 1 10 0 3 6 0	773 146 17 1 179	78 18 10 14 4 4 1 9 7 2 2 9½	0 10 81 						43 46 101 97	4 13 2 4 19 8 0 11 11 1 3 21
Church	 Glaxo	 192	20 16 0	86	9 6 4							106	11 9 8
Droylsden	 Cow and Gate Nestles' Milk Virol	 3024 96 144 56 144	303 12 0 10 8 0 8 9 0 3 0 0 0 12 0	2646 69 87 441 99	264 2 8 7 9 6 5 5 1½ 3 13 9 0 8 3	0 1 4 0 3 97 1 6 53 	43	2 5 2	2 2 4	135 2 	13 9 10 0 4 4 	200 25 57 11 ³ / ₄ 45	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Feniscowles		 144 45	15 12 0 2 8 1	- 33 2	3 11 6 0 3 4	0 1 10				15	0 16 3	111 28	12 0 6 1 10 4
Leyland		 624 36	62 0 0 0 15 6	594 36	58 15 0 0 17 4½	0 1 101		0 1 5	0 0 9			29	3 2 10
Litherland	 Cow and Gate Trumilk	 1511 163 33 140	163 13 10 17 13 2 3 6 0 7 10 0	683 15 36½	73 19 10 1 12 6 3 0 10	 1 2 11½	34	1 16 10 	1 16 10	4 1 1	0 8 8 0 2 2 0 2 0	790 147 32 103½	85 11 8 15 18 6 3 4 0 5 12 1½
Little Hulton	 Glaxo	 672	68 0 0	615	61 16 6							57	6 3 6
Ormskirk	 Virol	 229 28 144	24 16 2 1 10 0 0 12 0	190 121 49	20 11 8 1 0 5 0 4 1	0 7 53 	9	0 10 5	0 9 1		0 2 2	29 15 ³ / ₄ 95	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Prescot	 Cow and Gate Virol Cartons	 5572 685 448 1008 660	558 16 8 61 19 10 24 0 0 4 4 0 12 6 6	3839 482 372% 838 557	380 7 2 43 9 8 26 1 2 3 9 10 9 16 10	0 4 0 6 3 2½ 0 5 2	171 21 	8 16 9 1 1 0 	7 19 9 0 17 6 	1262 169 45 116 5	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	300 13 30§ 54 98	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Rishton	 Glaxo	 192	20 16 0	79	8 11 2			Yes				113	12 4 10
St. Annes		 48 56	5 4 0 3 0 0	10 8	1 1 8 0 13 4	0 5 0	(Trans. t	o Feniscowles	, 171bs., 18/1)	 11	0 11 11	38 20	$\begin{smallmatrix}4&2&4\\1&1&8\end{smallmatrix}$
Skelmersdale	 Virol	 330 28 204	34 2 0 1 10 0 1 14 6	209 31 20	21 1 6 0 5 5 0 5 0	0 2 23				5	0 10 10	$\begin{array}{c} 116 \\ 24\frac{3}{4} \\ 184 \end{array}$	12 9 8 1 6 93 1 9 6
Walkden	 Cow and Gate Virol	 1536 384 224 288	158 8 0 38 8 0 12 0 0 1 8 0	$\begin{array}{c} 1195 \\ 254 \\ 189\frac{1}{2} \\ 166 \end{array}$	121 11 0 24 7 8 15 15 10 0 13 10	0 1 10 5 13 2½ 	39	···· • ··· 3 3	0 2 0	15 4 3 	1 12 6 0 7 4 0 3 3 0 2 0	326 126 31½ 83	35 6 4 13 13 0 1 14 11 0 6 11
Worsley	 Virol	 480 84 144	47 4 0 4 10 0 0 14 0	$\begin{array}{c} 407 \\ 52\frac{3}{4} \\ 13 \end{array}$	39 5 10 4 7 11 0 1 1	1 11 94				1	0 1 1 0 2 0	73 30± 131	7 18 2 1 12 94 0 10 11

The following is a Summary of Attendances at the Child Welfare Centres during the twelve months ended 31st December, 1919:—

No. of Times the Centres were open		589
No. of Individual Children attending—		
Under 1 year of age	 5,054	
From 1—2 years of age	 1,125	
Over 2 years of age	 755	
		6,934
No. of Attendances by Children—		
Under 1 year of age	 9,817	
From 1—2 years of age	 2,034	
Over 2 years of age	 1,091	
		12,942
No. of Attendances by Expectant Mothers		202
No. of Attendances by Other Women		5,751

The following is a statement showing the number of necessitous cases of children under 5 years of age, nursing or expectant mothers, who have been supplied with milk, &c., during the year ended 31st December, 1919:—

Food		less than st Price.	Free	of Cost.	Total.		
Supplied.	No. of Cases.	Quantity supplied.	No. of Cases.	Quantity supplied.	No. of Cases.	Quantity	
Fresh Milk	5	144½ pts.	60	1529½ pts.	65	1674 pts.	
Glaxo	20	250 lbs.	89	1556 lbs.	109	1806 lbs.	
Cow & Gate	2	30 lbs.	17	184 lbs.	19	214 lbs.	
Virol			23	75 lbs.	23	75 lbs.	

Table E, here inserted, shows the sales of Dried Milk, &c., at the Child Welfare Centres.

The following is a list of the Child Welfare Centres which have already been established:-

	Day and Time Open.	0-4-0	0-1-0	4-0	4-0	-4-0	1-0	esday,	-4-0	4-0	4-0	0-	0-4
the same of	d Time	Wednesday, 2-0—4-0	Dr. L. E. H. R. Barker Wednesday, 2-0—4-0	Monday, 2-30—4-0	Thursday, 2-0—4-0	Thursday, 2-0-4-0	Wednesday, 2-0-4-0	Alternate Wednesday, 2-30—4-0	Thursday, 2-0-4-0	Thursday, 2-0-4-0	Tuesday, 2-30—4-0	Tuesday, 2-0-4-0	Tuesday, 2-0-4-0
	Day an	Vedneso	/ednesd	Sonday,	hursday	hursday	/ednesd	lternat 2-30-	hursda	hursday	uesday,	nesday,	uesday,
		-	ker W	:	T	T	×	A	I	T	T	T	
	Medical Officer.	тy	R. Bar	per	bett	ry	ay	pett	p/	ger	per	p	ry.
	dieal (Dr. R. B. Berry	3. H.]	R. Coo	Dr. C. L. Corbett	Dr. R. B. Berry	Dr. G. G. Wray	Dr. C. L. Corbett	Dr. H. Holroyd	Dr. J. R. Jagger	Dr. E. R. Cooper	Dr. H. Holroyd	Dr. R. J. Batty
	Me	r. R.	r. L. J	r. E. 1	r. C. 1	r. R. 1	r. G. (r. C. 1	r. H.	r. J. F	c. E. 1	r. H.	r. R.
		Q	Q	A	Q	D	Q	A	D	Q	D	D	Q
	21	ly	iams	cinson		y	y			:	:	en	90
	Nurse.	Kennec	. Will	i. Diel	allett	Hoe	Hoe	allett	athrie	teele	mith	lacque	Cnowle
	min a	ss M. I	ss M. (Miss M. G. Dickinson Dr. E. R. Cooper	ss J. H	s. M. C	Mrs. M. C. Hoey	Miss J. Hallett	Miss A. Guthrie	Miss M. Steele	Miss A. Smith	Miss A. Macqueen	Miss E. Knowles
	alli.	Mis	Mis	Mis) Mis	Mrs	Mrs	Mis	Mis	Mis	Mis	Mis	Mis
		t St	School, Miss M. C. Williams	•	fill To	bad .			Street				ool,
-	re.	Marke	nday S	Murch	nool, E	rne Re	ton	Ilali	nest S	:	ster R	Road	y Sch
-	f Cent	hool,	ist Su	dent (ay Sel	ranbo	r Pres	sion E	ool, Er	:	lanche	a Old	Sunds
-	Address of Centre.	day Se	[ethod	depen	Sund	Jub, C	ib, nes	et Mis	y Scho	K.n	ools, M	Prestor	nodist reh St
	Add	n Sun	Spring	Hill Inge Str	ationa	utive C	on Clu	n Stre	Sunda	Libra	n Scho	Hall,]	n Metil
		Wesleyan Sunday School, Market St Miss M. Kennedy	Independent Methodist Sunday New Springs	Hooley Hill Independent Church, Bridge Street	Congregational Sunday School, Hill Top Miss J. Hallett	Conservative Club, Cranborne Road Mrs. M. C. Hoey	Broughton Club, near Preston	Tennyson Street Mission Hall	Baptist Sunday School, Ernest	Carnegie Library	Wesleyan Schools, Manchester Road	Mission Hall, Preston Old Road	Wesleyan Methodist Sunday School, North Church Street
		M	In	H	ٽ ::	-	B	H	B		W	M	W
	rict.		ew gs)	W	p.	bridge	a	379 7 9	:	:	Dila	es	1
	District.	Adlington	Aspull (New Springs)	Audenshaw	Barrowford	Bamber Bridge	Broughton	Briercliffe	Church .	Dalton	Droylsden	Feniscowles	Fleetwood
		Adl	Asp	Aud	Bar	Ban	Bro	Brie	Chu	Dal	Dro	Fen	Flee

District.	Address of Centre.	Nurse.	- Medical Officer.	Day and Time Open.
Fleetwood	Elm Street Mission Hall	Miss E. Knowles	Dr. R. J. Batty	Wednesday, 2-0—4-0
Hale Bank	Wesleyan Sunday School	Miss M. R. McLean	Dr. E. H. Brook	Alternate Tuesday, 2-0—4-0
Kearsley .	Council Offices	Miss V. Lydall	Dr. E. H. Walker	Thursday, 2-0 -4-0
Leyland	Congregational Schools, Quin Street	Mrs. A. McTaggart	Dr. G. G. Wray	Thursday, 2-30-4-0
Leyland	Bradshaw Street Mission Room	Mrs. A. McTaggart	Dr. G. G. Wray	Alternate Wednesday, 2-0.4-0
Little Lever	Church House Institute	Miss G. J. Wellard	Dr. E. H. Walker	Tuesday, 2-30—4-0
Longridge	Drill Hall	Mrs. M. C. Hoey	Dr. G. G. Wray	Alternate Tuesday,
Litherland .	32, Linacre Road	Miss M. Robinson	Dr. W. Rutherford	Tuesday, 2-0—4-0
Lytham	Albert Street Mission Hall	Miss A. Brand	Dr. R. J. Batty	Thursday, 2-0—4-0
Morecambe (B.)	West End Wesleyan Sunday School	Miss G. Menzies	Dr. J. A. Tomb	Monday, 2-0-4-0
Ormskirk .	Church House, Church Street	Miss H. Dickinson	Dr. G. Scholefield	Tuesday, 2-0—4-0
Prescot	Parish Rooms, Warrington Road	Miss A. Walters	Dr. E. H. Brook	Monday and Thursday, 2-0-4-0
Skelmersdale	Congregational Schools, Witham Street	Street Miss A. E. Fry	Dr. E. H. Brook	Wednesday, 11-0-1 p.m.

		10071117		Day and rune open.
Ulverston Ra	Ratton Row Mission Hall	Miss M. F. Crosbie	Dr. J. R. Jagger	Tuesday, 2-0—4-0
Urmston Co	Co-operative Hall, Higher Road	Miss E. M. Lawley	Dr. E. H. Scholefield Tuesday, 2-0-4-9	Tuesday, 2-0—4-0
Walkden To	Town Hall, Worsley	Miss A. I. Murphy	Dr. E. H. Scholefield Thursday, 2-30—4-0	Thursday, 2-30—4-0
Waterloo U	United Methodist Sunday School	Miss E. C. Collins	Dr. E. R. Cooper	Alternate Thursday, 2-0—4-0
Whitefield	". Uplands"	Mrs. F. Tregarthen	Dr. H. F. Hutchinson	Tuesday, 2-30—4-0
Whitworth Re	Registry Office, Station Road, Facit	Miss M. Rochell	Dr. Forbes	Thursday, 2-454-0
Worsley Co	Court House	Miss A. I. Murphy	Dr. E. T. Scowbie	Wednesday, 3-0-4-0

BRANCH CENTRES FOR DRIED MILKS.

District.	Address of Centre.	Day and Time Open.
Bromley Cross	Council Offices	Tuesday, 2-0-4-0
Clayton-le-Moors	Council Offices	Monday, 2-0-4-0
Little Hulton	Council Offices	Monday, 2-0—4-0
Rishton	Council Offices	Monday, 12-0—2-0

OPHTHALMIA NEONATORUM.—Ophthalmia neonatorum was made a notifiable disease on the 1st April, 1914, i.e., every case must be notified to the Local Medical Officer of Health. Usually these cases are notified by a Medical Practitioner, but in many cases they are reported by a Certified Midwife. It is the duty of the midwife in such cases to advise that a doctor be sent for, and to send a copy of the Record to the County Medical Officer of Health at the Central Office.

The particulars of every case of ophthalmia neonatorum which is reported to the Local Medical Officer of Health are transmitted by him to the County Medical Officer of Health.

On receipt at the Central Office of the notification of a case of ophthalmia neonatorum at an address which is included in an area under the jurisdiction of the Lancashire County Council for Maternity and Child Welfare purposes, the County Health Visitor is immediately informed and is requested to visit the case at once. A special Form is forwarded to the County Nurse, on which she is asked to make a full report of the case.

When a Medical Practitioner has been in attendance on the case his name and address is forwarded to the County Nurse, and she is requested to visit him, in the first instance, with regard to the case.

During the period from the 24th September, 1919, to the 31st December, 1919, 26 cases were visited and kept under observation by the County Health Visitors. In some cases the Nurse was accompanied by one of the Assistant County Medical Officers.

The Principal Epidemic Diseases. — For statistical purposes, and for comparison with previous years, under this head are grouped together small-pox, measles, scarlet fever, diphtheria (including membranous croup), whooping cough, fever (including enteric, typhus, and continued fever), and *diarrhœa and enteritis.

The deaths assigned to these diseases in the aggregate numbered 821 (urban districts 752, rural districts 69), a diminution as compared with the year 1918 of 658, or nearly 45 per cent.

The following table compares the notified cases and the deaths in 1919 with the previous year:—

tunotsupen skalining partitaali teresii (attiaali leensii (Small-pox.	Measles.	Scarlet fever.	Diphtheria.	Whooping cough.	Enteric fever.	*Diarrhoa.
Notified cases :			1111			rano	
1919	4	13021	4080	1789	+	152	s t
1918	1	21653	1961	1592	+	319	+
Increase or decrease in 1919	+3	- 8632	+2119	+197		- 167	42
Deaths :-						Tight	
1919	100	130	72	222	86	35	*276
1918	***	319	49	244	478	91	*298
Increase or decrease in 1919		- 189	+23	- 22	- 392	-56	- 22

^{*} The Registrar-General, in his statistics for the whole country, includes under the heading of Diarrhea and Enteritis only those deaths occurring amongst children under the age of two years, and for comparative purposes the Administrative County deaths and death-rates since 1916 have been similarly classified; in preceding years the County diarrhea totals and rates included deaths at all ages. The total diarrhea deaths in the Administrative County in 1919 numbered 460, or 99 less than in 1918.

The County death-rate in 1919 from these epidemic diseases, calculated per 1,000 of the estimated civilian population, was 0.49 (urban districts 0.52, rural districts 0.31), as compared with a rate of 0.96 in 1918, 0.78 in 1917, 0.88 in 1916, and an average of 1.23 for the ten years 1909-1918. The rate for the year under report is considerably below any previously recorded, the next lowest being 0.78 in 1917.

[†] Not notifiable.

The following table gives the epidemic death-rates for the County during 1919, compared with the ten years 1909-1918:—

nup	Aı	nnual D	eath-ra	te per 1	,000 of	the pop	oulation	
YEAR.	Principal Epidemic Diseases.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria (including Mem- branous Croup).	Whooping Cough.	* Enteric Fever.	+ Diarrhosa and Enteritis.
1000	1.00	nil.	0.35	0.12	0.15	0.14	0.10	0.18
1909	1.06	nil.	0.15	0.12	0.11	0.23	0.10	0.18
1911	2.25	nil.	0.29	0.08	0.14	0.15	0.12	1.43
1912	1.12	nil.	0.30	0.05	0.12	0.24	0.08	0.30
1913	1.57	nil.	0.31	0.05	0.11	0.13	0.10	0.85
1914	1.25	nil.	0.28	0.09	0.13	0.18	0.07	0.48
1915	1.52	nil.	0.49	0.08	0.14	0.20	0.07	0.52
1916	10.88	0.003	0.17	0.06	0.15	0.14	0.05	10.27
1917	10.78	nil.	0.27	0.03	0.13	0.11	0.04	10.18
1918	‡0.96	nil.	0.20	0.03	0.15	0.31	0.05	‡0.19
County Average 10 years.	‡1·23	0.0003	0.28	0.06	0.13	0.18	0.07	‡0.46
11919	- Henry	Course I	ndiant	olines.	100		y routes	17/19/1
COUNTY	0.49	nil.	0.07	0.04	0.13	0.05	0.02	0.16
Urban	0.52	nil.	0.08	0.04	0.13	0.05	0.02	0.17
Rural	0.31	nil.	0.02	0.02	0.09	0.01	0.02	0.12
13/15		armat.		and the	gassi mag	un ign	Ju gw	Nag-

^{*} Prior to 1911 the "fever" death-rate included deaths from typhus and continued fevers (if any). † Enteritis deaths included since 1911. ‡ Since 1916 the County epidemic death-rates and diarrhœa death-rates include deaths from diarrhœa and enteritis under two years of age only. Including the total diarrhœa deaths at all ages the County epidemic death-rate in 1919 was 0.60, and the diarrhœa death-rate 0.27. In 1918 these rates were 1.13 and 0.36 respectively.

The epidemic death-rate of each County district is shown in Table B, page xvi.

In 35	districts	the rate v	was below 0.25 per 1,000
47	,,	,,	between 0.25 and 0.50 per 1,000
29	,,	,,	,, 0.50 and 1.00 per 1,000
11	,,	,,	over 1.00 per 1,000

The highest epidemic death-rates were recorded in 1919 in Leigh (B.) and Widnes (B.) each 1·43, Lytham 1·42, Little Lever 1·30, Atherton 1·22, Aspull and Skelmersdale each 1·09, St. Annes-on-the-Sea 1·04, Tottington 1·03, and Hindley and Litherland each 1·01.

Extending over a period of ten years, the following districts produced high epidemic death-rates:—

Ince-in-Make	rfield		3.07	Haydock		 2.35
Aspull			2.90	Leigh (B.)		 2.32
Golborne			2.60	Tyldesley-wi	th-	
Widnes (B.)			2.56	Shakerley		 2.28
Hindley			2.44	Prescot		 2.27
Ashton-in-Ma	akerfie	ld	2.42			

Small-pox.—In the year 1919 four cases of small-pox were reported in the Administrative County area, all at Eccles (B.). Three other suspected cases came to the knowledge of the County Public Health Department, but on enquiry the diagnosis was not confirmed.

The four cases in Eccles were notified on December 21st, and two others cases were reported on January 2nd, 1920.

In August a report was received by the County Public Health Department that a case of small-pox had occurred in a Lancashire County Borough, and that a number of residents in the County area had been in contact. The districts concerned were visited by the County Public Health Staff, working in conjunction with the local officials, and all the contacts were kept under observation. No spread of the disease took place.

The incidence of small-pox in the Administrative County since 1890 is given below:—

0				
Cases.	Deaths.	Year.		
1	0	1905	255	6
2	0	1906	233	0
612	70	1907	13	1
1038	84	1908	2	1
259	25	1909	7	0
100	19	1910	23	0
83	10	- 1911	21	0
3	0	1912	1	0
6	1	1913	10	0
16	1	1914	14	0
59	3	1915	3	0
6	0	1916	46	6
436	22	1917	0	0
1156	68	1918	1	0
422	22	1919	4	0
	1 2 612 1038 259 83 6 16 59 6 436 1156	$egin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

Vaccination.—The last issued report of the Medical Department of the Local Government Board (1918-1919) states:—"The statistics show that during the five years 1913-1917 the number of children vaccinated has continued to decrease, and the number of children exempted by statutory declaration has continued to increase. The percentage vaccinated in 1917 was 43-3, the percentage exempted 37-9, while 12-0 per cent. of the children born in that year were unaccounted for as regards vaccination. The percentage of the children vaccinated of the number born probably decreased to about 40 per cent, in 1918."

The 1917 figures show that the proportion of vaccinated children to the births varied within considerable limits. The proportion for England and Wales was 43·3 per cent. In the Counties, Cheshire is highest with 57·8 per cent., followed by Lancashire with 54·8 per cent.

The report referred to points out that the circumstances of the war have had the effect of increasing the number of persons who have been revaccinated, for although revaccination was not compulsory throughout the new army, still a very large proportion were revaccinated.

In conclusion, the report states:—"The position, therefore, is that, while the adult population is better protected against attack by small-pox than has previously been the case, this proportion is unequally distributed between the sexes; and as regards the child population, only about half the children under 10 years of age have been vaccinated.

"In recent occurrences of small-pox in this country, prompt notification of cases, speedy isolation of the patients, and diligent inquiry as to contacts to secure their immediate vaccination, have been successful in preventing the spread of infection, but such measures cannot be implicitly relied on when small-pox breaks out in a population unprotected by vaccination."

In August, 1919, the Ministry of Health issued a memorandum as to the supply and use of vaccine lymph for vaccination or revaccination of persons who may have been exposed to small-pox infection.

Measles.—In 1919 there were 130 deaths from measles registered in the Administrative County, against 319 deaths in the year 1918, a reduction of 189. In 1917 there were 428 deaths, 286 in 1916, and 817 in 1915.

The ages at death in 1919 were as follow:-

Under 1 year 28 or 21.5 per cent. Between 1 year and 5 years ... 82 or 63.0 per cent. Five years and upwards ... 20 or 15.3 per cent.

The County death-rate from this disease—more favourable than in any preceding year—was 0.07 per 1,000 of the population (urban districts 0.08, rural districts 0.02), against 0.20 in 1918, 0.27 in 1917, and an average of 0.28 for the ten years 1909-1918. The measles death-rate for England and Wales in 1919 was 0.10.

The highest district death-rates from this disease were:— Leigh (B.) 0.53, Little Lever 0.43, Farnworth 0.35, Middleton (B.) 0.32, Radcliffe 0.25, Lancaster (B.) and Waterloo-with-Seaforth each 0.24, Prescot and Lancaster (R.) each 0.23, and Limehurst (R.) 0.22.

Under the Public Health (Measles and German Measles) Regulations, 1915, 13,021 cases were notified, a reduction of 8,632 cases, as compared with 1918. The case mortality was 0.99 per cent.; in 1918 it was 1.49, and 1.56 in the years 1917 and 1916. The monthly incidence showed a gradual rise from 350 cases in January to 2,500 cases in December.

School closure on account of the prevalence of measles was required in only 21 districts, as compared with 54 districts in the previous year.

By "The Public Health (Measles and German Measles) Regulations, 1915, Rescission Order, 1919," the previous Regulation requiring the notification of measles and German measles was rescinded as from the 31st December, 1919.

Scarlet Fever.—The gradual decline in the prevalence of scarlet fever in the County area which had been taking place for some years, as shown by the statement below, was arrested during the year under review:—

and City	andrill mi	Cases Notified		Deaths.
1914		8,275		169
1915		7,526		141
1916		5,176		113
1917	2000000	2,655	Ding at	56
1918		1,961		49
1919	1000 AA 154	4,080	- Demodrat	72

The scarlet fever death-rate in 1919 was 0.04 per 1,000 of the population (urban districts 0.04, rural districts 0.02), against a rate of 0.03 in 1918 and 1917, 0.06 in 1916, and an average of 0.06 for the ten years 1909-1918.

The case mortality in 1919 corresponded to 1.76 per cent., as compared with 2.49 per cent. in 1918. Of the total deaths,

51-3 per cent, were amongst children under the age of five years.

Notifications were most numerous in Swinton and Pendlebury 324 (9 deaths), Ashton-in-Makerfield 225 (2 deaths), Eccles (B.) 219 (4 deaths), Litherland 181 (8 deaths), Fleetwood 176 (no deaths), Waterloo-with-Seaforth 164 (5 deaths), Radcliffe 123 (6 deaths), and Hindley 112 (1 death).

Of the total scarlet fever cases notified, 47.0 per cent. were removed to hospital; in 1918 the percentage of removals was 50.5. In ten districts all the cases were removed, and in 13 districts over 80 per cent. of removals took place.

Schools were closed on account of this disease in seven districts.

Whooping Cough.—The deaths under this heading numbered only 86, against 478 in the year 1918.

The ages at death were :-

Under 1 year 25 or 29.0 per cent. Between 1 year and 5 years ... 55 or 63.9 per cent. Five years and upwards ... 6 or 6.9 per cent.

The mortality rate was 0.05, as compared with 0.31 in 1918, and an average of 0.18 for the ten years 1909-1918. The rate for England and Wales in 1919 was 0.07.

Of the 86 deaths, 33 occurred in Widnes (B.) and 10 in Eccles (B.). In one district (Preston (R.)) school closure took place.

Diphtheria and Croup.—The number of cases of diphtheria notified in 1919 amounted to 1,789, and deaths registered numbered 222, an increase as compared with the previous year of 197 cases, but a decrease of 22 deaths. The percentage of deaths to cases was 12·4, against 15·3 in the year 1918.

The County death-rate in 1919—0·13 per 1,000 of the population—coincided exactly with the average of the preceding ten years and with the 1919 rate for the whole of England and Wales.

Of the deaths 47.2 per cent. were amongst children under the age of five years.

The prevalence of diphtheria was most marked in Leigh (B.) 101 cases (10 deaths), Atherton 82 (8 deaths), Prestwich 76 (8 deaths), Waterloo-with-Seaforth 71 (8 deaths), Ormskirk 69 (4 deaths), Ashton-in-Makerfield 63 (3 deaths), Fleetwood 57 (5 deaths), Haslingden (B.) 55 (5 deaths), Chorley (B.) 53 (12 deaths), and West Lancashire (R.) 50 (4 deaths).

Of the total cases notified 904, or 50·5 per cent., were removed to hospital, with a case mortality of 8·73 per cent.; 885 cases were treated at home, case mortality 16·15 per cent.

School closure was resorted to in five districts. From 68 districts 1,464 swabs were sent for examination.

Enteric Fever.—The following table shows the incidence of enteric fever in the Administrative County from the year 1898 to 1919. As regards the year under review, it will be noted both the cases and the deaths are well below any preceding year:—

	Cases.	Deaths,		Cases.	Deaths.
1898	2661	478	1909	994	192
1899	2674	457	1910	1016	193
1900	2183	399	1911	1091	220
1901	2094	364	1912	620	147
1902	1747	297	1913	875	180
1903	1479	277	1914	650	123
1904	1235	233	1915	530	127
1905	1335	255	1916	387	94
1906	1248	252	1917	302	74
1907	859	164	1918	319	91
1908	1219	224	1919	152	35

The attack-rate per 1,000 of the estimated population, which in 1898 was 1.41, was only 0.09 in the year under report. The case mortality in 1919 corresponded to 23.0 per cent.

The County death-rate from enteric fever was 0.02 per 1,000, compared with an average of 0.07 for the ten years 1909-1918. The rate for the whole of England and Wales in 1919 was 0.01.

Of the total persons attacked, 49·3 per cent. were isolated in hospital. The hospital case mortality was 17·33 per cent., against home mortality 28·57 per cent.

In 55 districts no cases were reported.

Blood specimens submitted for examination numbered 157 from 45 districts.

Under Article XV. of the Public Health (Pneumonia, Malaria, Dysentery, &c.) Regulations, 1919, power is given to a Medical Officer of Health to deal with any person who is a carrier of enteric fever infection.

Diarrhœa and Enteritis.—Diseases classified under this heading gave rise to 460 deaths at all ages, as compared with 559 deaths in 1918 and 578 in 1917.

The Registrar-General in his statistics now includes under this heading only deaths of children under two years of age. The number of such deaths in the County in 1919 was 276, or 22 fewer than in the previous 12 months.

The County diarrhoa and enteritis death-rate, if calculated on the total deaths at all ages from these diseases corresponded to 0.27 per 1,000 of the estimated civil population (urban districts 0.28, rural districts 0.23) as compared with a rate of 0.36 in the year 1918. If only deaths amongst children under two years of age are taken into consideration, the County death-rate was 0.16 per 1,000 (urban districts 0.17, rural districts 0.12), as compared with 0.19 in 1918, 0.18 in 1917, and 0.27 in 1916.

Of the total diarrhea deaths (460), 233, or 50.6 per cent., were amongst children under one year of age, 73, or 15.8 per cent., children between one and five years, and 154, or 33.4 per cent., persons over five years of age.

The County diarrhea and enteritis deaths amongst children under two years of age amounted to 9.58 per 1,000 of the total births in 1919, being almost identical with the rate for the whole of England and Wales, which was 9.59.

The diarrhœa and enteritis death-rate in children under two years of age was greatest in Aspull 0.82, Skelmersdale 0.77, Haydock 0.62, and Leigh (B.) 0.60.

Acute Poliomyelitis. — Deaths due to acute poliomyelitis numbered 5, and 20 cases were notified under the Regulations of August, 1912. In 1918 the cases numbered 11, and deaths 9.

Cerebro-Spinal Fever.—Eighteen deaths were registered as due to cerebro-spinal fever, and 38 cases were reported under the 1912 Regulations. In 1918 there were 17 cases notified, and 15 deaths registered. Notification of this disease, and of acute poliomyelitis, is not carried out satisfactorily, as it is often found, on enquiry after a death has been reported, that the case had not been notified.

By General Order, dated 16th June, 1919, certain Regulations of 1918 were rescinded and new Regulations were substituted authorising the Council of any Administrative County or County Borough to provide or arrange for (1) the examination and treatment of any person who is either suspected to be suffering from cerebro-spinal fever, or has been in contact with a person suffering or suspected to be suffering from the disease; and (2) for the provision of serum and vaccine for the treatment of cases, or suspected cases, of the disease, together with the necessary apparatus for the use of the serum or vaccine.

Acute Encephalitis Lethargica and Acute Polic-encephalitis.

—By Regulations operative from 1st January, 1919, the Regulations of 1918, which made these diseases compulsorily notifiable for a period of one year, were continued in force until the Minister of Health by Order otherwise directs.

Under the Regulations 26 cases were notified during the vear 1919.

Ophthalmia Neonatorum.—Under "The Public Health (Ophthalmia Neonatorum) Regulations, 1914," 337 cases were reported during the year under review, against 232 cases in 1918 and 246 in 1917. Further reference to this disease is made on page lxxxiv. in connection with the work carried out under the Midwives Acts.

Influenza.—In the absence of notification it is not possible to state the number of cases of influenza, but in the County area, during the year 1919, the deaths registered numbered 2,463 which, with the 4,492 deaths in 1918, make a total of close on seven thousand deaths.

The ages at death were as follow:-

All Under ages. 1 year. 2 years. 2 years. 25 years. 25 years. 25 years. 25 years. 45 years. 45 and under under ages. 1918... 4492 ... 86 ... 123 ... 279 ... 501 ... 631 ... 1548 ... 927 ... 397 1919... 2463 ... 87 ... 54 ... 89 ... 128 ... 260 ... 784 ... 662 ... 399

The disease first assumed epidemic proportions in this County in July, 1918, when over 600 fatalities occurred; in August and September the mortality was almost normal, followed by a severe outburst of the disease in the last quarter, when over 2,000 deaths were attributed to influenza. In January, 1919, fatalities fell to one hundred, but in the two months, February and March, these again rose to over 1,700. From that time the deaths rapidly diminished, and during the last six months of 1919 they averaged about a dozen per month.

The County death-rate from influenza in 1919 was 1.48 per 1,000 of the population, against a rate of 2.90 in the year 1918. The percentage of influenza deaths to total deaths from all causes was 10.52 per cent. in 1919, and 16.91 per cent. in the preceding year.

High influenza death-rates were attained in Croston 4·21, West Lancashire (R.) 3·94, Morecambe (B.) 2·99, Kearsley 2·98, Upholland 2·95, Wigan (R.) 2·89, Blackrod 2·82, Formby 2·71, Widnes (B.) 2·67, Haydock 2·47, Standishwith-Langtree 2·43, and Farnworth 2·40.

Schools were closed on account of the prevalence of influenza in 43 districts.

In February, 1919, the Local Government Board issued a Memorandum on the prevention of influenza, accompanied by a specimen leaflet of advice to the public on precautions to be taken against the disease and this was revised in December, 1919.

In this month the Ministry of Health also made arrangements for the preparation of a stock of anti-influenza vaccine, available for distribution through Medical Officers of Health to medical practitioners who may wish to use it.

The Public Health (Influenza) Regulations of 18th and 22nd November, 1918, which prescribed certain precautions to be adopted at places of entertainment, &c., were rescinded by Order, dated 6th May, 1919.

Bronchitis and Pneumonia.—The total deaths assigned to these diseases in 1919 were:—

Bronchitis 2,410 (males 1,103, females 1,307). Pneumonia 1,940 (males 1,113, females 827).

The corresponding totals for the year 1918 were 2,181 and 2,604.

The County death-rate from bronchitis in 1919 was 1.44 per 1,000 of the population, and from pneumonia 1.16. In 1918 these rates were 1.41 and 1.69 respectively.

In the aggregate these two diseases contributed in the year under review 18.5 per cent. of the total deaths from all causes, or with influenza added, 29.1 per cent.

High death-rates from bronchitis and pneumonia were recorded in Aspull 4·81, Wigan (R.) 4·59, Rainford 4·53, Lathom and Burscough 4·33, Ince-in-Makerfield and Limehurst (R.) each 4·26, Radcliffe 4·22, Prescot 4·07, and Ashton-under-Lyne (B.) 4·0.

In January, 1919, the Local Government Board issued a Memorandum relative to the classification and bacteriology of pneumonia, the predisposing causes, prophylaxis, and general administrative measures. The Public Health (Pneumonia, Malaria, Dysentery, &c.) Regulations, 1919.—The Regulations, dated 7th January, 1919, were made by the Local Government Board with the object of securing better control over, and means for treatment of, certain epidemic diseases which were prevalent or threatened at the time. The Regulations apply to malaria, dysentery, trench fever, acute primary pneumonia, acute influenzal pneumonia, enteric fever, relapsing fever, and typhus fever. The first five diseases mentioned were made compulsorily notifiable.

The Regulations also prescribed the duties of Medical Officers of Health in relation to these diseases and the precautions to be adopted. In July a leaflet was issued—"Suggestions for the Care of Malaria Patients."

Under the above Regulations the following notifications were received:—

Acute primary p	neumo	nia ar	nd acut	e influ	enzal	
pneumonia						2,915
Malaria						770
Dysentery						190
Trench fever						3

Rabies.—In June, 1919, the Local Government Board issued a revised Memorandum on the procedure recommended to be followed in the event of persons being bitten by dogs suspected or ascertained to be rabid.

Tetanus.—A Memorandum on the prophylactic use of tetanus anti-toxin was issued by the Ministry of Health in October, 1919. A supply of this anti-toxin is kept available in the County Public Health Department. To December 31st, 1919, 125 phials had been issued to medical practitioners.

OTHER MEMORANDA issued in 1919 (27th February) by the Local Government Board included one on measures for the prevention of lousiness and itch.

Organic Heart Disease.—The mortality from this disease corresponded to 1.39 per 1,000 of the population, the total deaths in 1919 amounting to 2,323, or 73 more than the number registered in 1918.

Cancer, Malignant Disease.—The fatalities ascribed to cancer during 1919 numbered 1,793 (males 774, females 1,019), as compared with 1,727 in the year 1918 and 1,713 in 1917.

The County cancer death-rate for 1919 is fractionally less than that of 1918, but it is double the rate of 20 years ago.

This rate has shown a steady increase for some years, as will be seen from the table below, which compares the County rate with that for England and Wales:—

Year.	Administrativ	England and Wales (crude rates)	
delle di redici	No. of Deaths.	Death-rate per 1,000.	Death-rate per 1,000.
1909	1,374	0.75	0.95
1910	1,333	0.74	0.96
1911	1,493	0.86	0.99
1912	1,466	0.83	1.01
1913	1,618	0.92	1.05
1914	1,668	0.95	1.06
1915	1,577	0.94	1.12
1916	1,728	1.06	1.16
1917	1,713	1.09	1.21
1918	1,727	1.12	1.21
Average			
1909-1918	1,569	0.92	1.07
1919	1,793	1.07	*1.17
	eristim, inti	Manual parts	

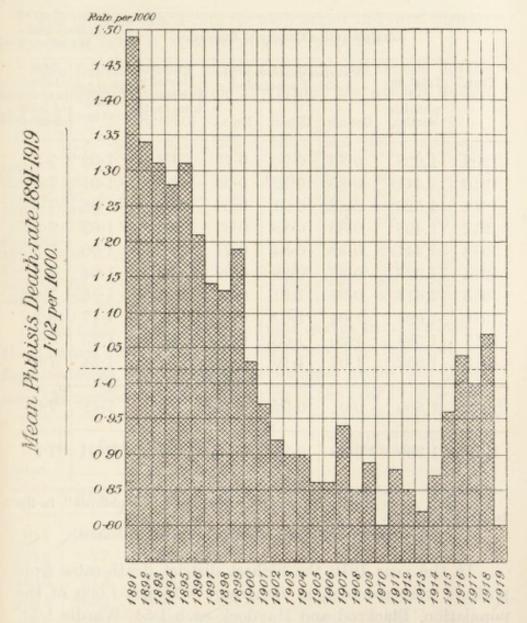
^{*} Calculated from Quarterly Returns of Registrar-General.

Phthisis (Pulmonary Tuberculosis).—The deaths of civilians during 1919, assigned to phthisis (pulmonary tuberculosis) numbered 1,339—males 675, females 664—or 313 less than those so classified in the preceding twelve months. The proportion of phthisis deaths to deaths from all causes was 5.7 per cent. in 1919, against 6.2 and 7.2 per cent. respectively in the years 1918 and 1917.

Phthisis this year ranks sixth in the diseases responsible for the highest number of deaths from any defined cause, the five with greater mortality being influenza, bronchitis, organic heart diseases, pneumonia, and cancer.

The County phthisis death-rate in 1919 was equal to 0.80 per 1,000 of the estimated civilian population, the rate in the urban districts being 0.81 and in the rural districts 0.75. Last year the rates were—County 1.07, urban districts 1.10, rural districts 0.88. The mortality from phthisis in 1919 was below any previously recorded for the Administrative County excepting the year 1910, when it was exactly the same. In 1917 the rate was 1.0, 1.04 in 1916, 0.96 in 1915, 0.87 in 1914, and the County average of the ten years 1909-1918 was 0.91.

The Diagram below shows the County phthisis deathrate for the year under report, contrasted with the preceding 28 years, and the mean of the whole period:—



In comparing the phthisis death-rates of part of the war period, i.e., 1916-1918 with other years, the fact should be noted that the estimated population on which the rate is based in these years is the "civilian" population referred to on page ix. The County rate for 1919 is also calculated on the "civilian" population, but this estimate is 125,000 in excess of the estimate for 1918.

The following table shows the rates of phthisis deaths to total deaths in the Administrative County, compared with the whole of England and Wales:—

	Adm	ninistrativ	e County	of Land	easter.		nd and des.
Year.	Total No.		is death- of popul		Phthisis Mortality per cent. of	Phthisis death-	Mor- tality per cent
	phthisis deaths	County.	Urban.	Rural.	total deaths (County).	rate.	of total deaths.
1909	1,638	0.89	0.90	0.79	6.4	1.08	7.5
1910	1,441	0.80	0.82	0.66	6.3	1.01	7.5
1911	1,528	0.88	0.91	0.66	5.8	1.08	7.4
1912	1,495	0.85	0.88	0.67	6.2	1.03	7.8
1913	1,441	0.82	0.84	0.71	5.7	1.00	7.3
1914	1,523	0.87	0.89	0.69	6.2	1.04	7.5
1915	1,614	0.96	1.01	0.70	6.3	1.16	7.4
1916	1,685	1.04	1.07	0.81	7.2	1.17	8.2
1917	1,584	1.00	1.03	0.84	7.2	1.25	8.7
1918	1,652	1.07	1.10	0.88	6.2	1.34	7.6
10 years average	1,560	0.91	0.94	0.74	6.3	1.11	7.6
1919	1,339	0.80	0.81	0.75	5.7	*1.01	*7.2

In 1911, Acute Miliary Tuberculosis was added to "phthisis" in the International Code.

*Calculated from Quarterly Returns of Registrar-General.

In the year 1919 the highest district death-rates from phthisis were recorded in Longridge 1.73 per 1,000 of the population, Blackrod and Haydock each 1.54, Wardle 1.51, Litherland and Prestwich each 1.36, Ormskirk 1.35, Whiston (R.) 1.26, Failsworth 1.25, Widnes (B.) 1.22, and Droylsden 1.21. Rates for one year, especially in districts with comparatively small populations, are apt to be misleading; in the following County districts the phthisis death-rates, extending over a period of ten years, are well above the average:—Ashton-under-Lyne (B.) and Kirkham each 1.42,

Ormskirk 1·40, Whitworth 1·37, Heywood (B.) 1·27, Daltonin-Furness and Grange-over-Sands each 1·26, Lancaster (B.) 1·25, Failsworth 1·24, Hurst 1·22, and Leigh (B.) 1·20.

The phthisis death-rate for each urban and rural district is shown on Table B, inserted opposite page xvi.

The following table shows the male and female deaths from pulmonary tuberculosis at various age periods during the last four years:—

Mala	At all Ages.	Under 1 year.	1 and under 2 years.	2 and under 5 years.	5 and under 5 years.	15 and under 5 years.	25 and under years.	65	45 and under years.	
Males-										
1916	900	 2	 6	 11	 28	 133	 392		300	 28
1917	827	 5	 7	 6	 21	 125	 380		252	 31
1918	844	 2	 7	 8	 31	 136	 370		253	 37
1919	675	 4	 4	 8	 20	 98	 286		225	 30
Females	-									
1916	785	 3	 9	 11	 68	 180	 370		129	 15
1917	757	 4	 4	 11	 63	 196	 333		133	 13
1918	808	 2	 1	 4	 55	 215	 373		139	 19
1919	664	 2	 4	 8	 45	 167	 293		118	 27

The table below gives the total deaths from phthisis in the County during 1911-1919, distinguishing the male and female deaths, and showing the increase in the war period over the number of deaths occurring in the year 1913:—

Year. 1911 1912 1913 1914 1915 1916 1917 1918 1919	Dea	ths from ph	thisis.	Increase or decrease on 1913 totals.											
	Males.	Females.	Total.	Males.	Females.	Both Sexes									
911	*875	*758	*1633	33 1000	2010	310									
1912	*897	*702	*1599												
1913	*813	*694	*1507												
1914	*862	*730	*1592	+49	+36	+85									
1915	*896	*795	*1691	+83	+101	+184									
1916	900	785	1685	+87	+91	+178									
1917	827	757	1584	+14	+63	+77									
1918	844	808	1652	+31	+114	+145									
1919	675	664	1339	-138	-30	-168									

 ^{*} Totals taken from Registrar-General's Reports differ slightly from totals in County Health Reports.

Other Tuberculous Diseases.—Tuberculous meningitis was responsible for 101 deaths, and "other tuberculous diseases" 257 deaths, making—with the 1,339 phthisis deaths—the aggregate fatalities assigned to tuberculous affections 1,697, as compared with 2,087 in the year 1918, a decrease of 390.

The combined tuberculosis death-rate in 1919 was 1.02, against a rate of 1.35 in the previous year, 1.30 in 1917, and 1.33 in 1916.

The table below shows the deaths in 1919 from tuberculous diseases, compared with the years 1918 and 1917:—

Cause of Death.	All ages.	Under 1 year.	1 and under 2 years.	2 and under 5 years.	5 and under 15 years.	15 and under 25 years.	25 and under 45 years.	45 and under 65 years.	65 and upward
Phthisis (Pul- monary Tuber-									
culosis) Tuberculous	1339	6	8	16	65	265	579	343	57
Meningitis Other Tubercu-	101	13	13	32	31	8	4		
lous Diseases	257	15	15	34	56	50	46	31	10
Total 1919	1697	34	36	82	152	323	629	374	67
Year 1918	2087	40	55	80	188	419	816	427	62
Year 1917	2050	54	54	96	193	384	783	432	54

THE PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1912.—Tables C and D, here inserted, analyse, both as regards parts of the body affected and in age periods, the notifications received weekly during the fifty-three weeks ended 3rd January, 1920, from local Medical Officers of Health.

The total number of cases reported under the Regulations, excluding 198 duplicates, 606 notifications on Form C (admissions to institutions), and 586 on Form D (discharges from institutions), numbered 2,952, or 467 less than in the year 1918, although the "year" shown on the tables includes 53 weeks, against 52 weeks in the 1918 tables. Pulmonary tuberculosis contributed 2,105 cases (429 less than in 1918), and other forms of tuberculosis 847 cases, 38 less than in the preceding year.

TABLE C.

ADMINISTRATIVE COUNTY OF LANCASTER.

Public Health (Tuberculosis) Regulations, 1912.

SUMMARY OF NOTIFICATIONS OF PULMONARY AND OTHER FORMS OF TUBERCULOSIS DURING THE FIFTY-THREE WEEKS ENDED 3 RD JANUARY, 1920 .

(Extracted from Weekly Returns of District Medical Officers of Health.)

														NO	TIF	ICAT	TION	s o	N I	FORM	us A	A A	ND	В-Е	Exel	uding	Du	plics	itea.														
	PU	LM)NA	RY.	NON-PULMONARY.																										Total												
		yux.			ALDO	ALIMENTARY. GLANDS. GENITO-URINARY. JOINTS AND BONES.																			T	10	1	1 2		Total Pul-	Notifi- cations (i.e., including												
	uly.	d Lar	-62		(6)	is inal	lerio.				sal.	pag one		4			al.	nd nis.	ped eek	ading rt).	Tru	nk.			1	Irm.						Leg			1 2	Sed.		Mand		NEOU		monary	cases previously
	Lungs or	Lungsan	Laryngit	TOTAL.	Enteritis (Prima	Peritonit (Abdomi Tubercul	Tabes (Mesen) Glands	Axillary.	Cervical.	Inguinal	Mediasti	Not Classi (Two or m Groups	Bladder.	Fall. Tul	Kidney.	Prostate.	Supraren	Testicle a	Not Classi (I'wo or me	Head finel Middle E.	Ribs and Sternum.	Spine.	Shoulder.	Scapula.	Humerus	Elbow.	Radius.	Ulna.	Wrist.	Hip and Pelvis.	Femur.	Knee.	Tibia.	Foot and	Ankle, Two or mo	for Chassit	MENTSOIL	MILLANY	SKIN	MISCELLA	Toraz.	Non- Pul- monary.	notified by other Doctors.)
Thirteen weeks ended 29th March, 1919	548	3	4		4	25																			1				4	7		5			T		T	T	4	3	181	736	780
Thirteen weeks ended 28th June, 1919	628	4	4	636	4	24	5	3	116	1																	_															914	981
Thirteen weeks ended 27th September, 1919.																			_								_	_	_													590	626
Fourteen weeks ended 3rd January, 1920	498	2	2	502	4	16	4	4	84			7						4			1	15	2			1			0	18		5	,				10	0	10	0	010	710	763
Total	2081	11	10	2105	15	85	16	10	335	2	1	17	3	1	3	1		6	1	1	9	58	3			13		1	12	49	1	28	3	1 25	13	2	76	13	37	9	847	2962	3150

ı		NOTIFICATIONS ON FORMS A AND B-Excluding Duplicates.															2	NOTIFICATIONS. FORM B (By School Medical Inspecto							NLY.	Number of Case Notified		Number													
1		PULMONARY. NON-PULMONARY.										Total Pul-			PRIMARY NOTIFICATIONS. (i.e., excluding duplicates.)							Total Notifica-	on Fo	orm C.	of Canes																
		Years.	0 to 1.	1 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 35.	35 to 45.	45 to 55.	55 to 65.	65 and up- wds	TOTAL.	TOTAL M. & F.	0 to 1.	1 to 5.	5 to 10.	10 1 to t 15. 2	5 2 0. 2	0 2 6 5. 3	5 35 to 5. 45.	45 to 55.	55 to 65.	65 and up- wds	Toral.	TOTAL M. and F.	monary and Non- Pul- monary.	Und 5 year	LTH.	5 to 10		10 to 15.			COTAL		tions (i.e., including cases previously notified by other Doctors.)	Poor Law Institu- tions.	Sana- toria.	Form D (Discharges from Institu- tions).
1	Thirteen weeks ended ;	M.		7	12 16	14	24	29	59	61	42	18	7	266 289	555	4	12	25	12 1	5 1	2 5	3	8	1	1	88		1		- 1			S 15	V.P I		000					
1	29th March, 1919 (F.	2			100			1000	1000				1000000	1000	6			12 1 17 1			3 5			- 1	88 93	} 181	736	::		1	2	1 -	i	2	3	9	9	. 2	132	119
	Thirteen weeks ended 28th June, 1919			8 2	12 18	20 19	35 42	26 42	84 71	58	56 26	30	9	334	636	5 2	13 24	30 S	25 2 26 2	3 7	13	8 14	6	3	i	127 151	278	914			3	2	i	3 3	3 4	5 1	15	18	2	145	186
1	Thirteen weeks ended { 27th September, 1919 {	M. F.	1	8 2	11 6	9 22	17 22	22 36	48 61	38	31 17	19	3	196 216	412	1	15 14	20 5	20 1	8 9	5 3	3 3	6	2	3	95 83	} 178			-			1 :			2 }		.10	1	154	160
	Fourteen weeks ended (M. F.	ï	5	14			and the	1000	55 34			5	242	} 502		_			_	-	7		1	::	97 113	210	712				4 :		2 1	1	26	10	11		170	171
	Total {	M. F.	2 5	22 14	58 54	56 80	94 126	107 161	238 261	212 184	165 99	91 41	17 24	1056	2105	13	50 59	97 8	80 50 76 6	3 26	31	92 29	19	12 7	4 5	440	847	2952			7 6	6 9	2 3	5 5	9 1	14	43	48	5	601	586
a															100			1	100			-		1	-					-	-				-	-		-	_		

TABLE D.

ADMINISTRATIVE COUNTY OF LANCASTER.

Public Health (Tuberculosis) Regulations, 1912.

ANALYSIS OF THE NOTIFICATIONS ON FORMS A AND B (EXCLUDING DUPLICATES) RECEIVED DURING THE FIFTY-THREE WEEKS ENDED 3rd JANUARY, 1920.

(Extracted from Weekly Returns of District Medical Officers of Health.)

		-	_													_	-		_	- 1			-		_	-	-	_		1				_			_	- 11	-
100	Age-Years :-		1	- 1			1 — 5		5	_ 10		10	- 15		15-	- 20		20	- 25		25	35		35	- 45		45	- 50	5	50	5 — 6	15	65	& up	wds.	то	TALS	-	-
	SEX.	Col.	м.	y.	Both Sexes.	м.	F.	Both Sexes.	м.	P.	Both Sexes.	м.	F	Sexes.	м.	у.	Both Sexes.	м.	F	Sexes.	м.	y	Both Sexes.	м.	y.	Both Sexes.	м.	F	Sexes.	м.	y.	Both Sexes.	м.	у.	Both Sexes.	м.	F. 1	Sexes.	Col.
PULMON	ARY— Lungs only Lungs and Larynx Laryngitis		2		7	22		36	53	54	107	55		134		126	220		2	266		259	494 1 4	210	180	390 4 2	163 1	97 1	260 2 2	1	1	129 2 1		24	41	1047 3 6	1037 2	084 11 10	1 2 3
PULM	ONARY TOTAL	4	2	5	7	22	14	36	53	54	107	55	80	135	94	126	220	107	161	268	238	261	499	212	184	396	165	99	264	91	41	132	17	24	41	1056	10492	105	4
Cases-	Pulmonary and Imonary combined		1	1	2	2	2	4	2	1	3	5	3	8	3	2	. 5	1	2	3	3	5	8	5	3	10	2	3	5		1	1		1	1	24	26	50	
NON-PUI ALIMEN- TARY	LMONARY— { Enteritis (Primary)		5		5	10	2 10	4 20	2 7	2 4	4 11	·i2	1 6	1 18	2 5	8	2 13		1 6	1 6		2	3	3	1	1 3	2	,1	3	2		2	1 1		2	7 48	8 37	15 85	5 6
GLANDS	Tabes Offosenteric Glands) Axillary Cervical Inguinal Mediastinal Not Classified Two or more Groups)	8 9 10 11	3	`i		10	10		3 42 1 2	4 2 45 3	,	41	37	78	::	1 29	1 2 56 	13			::	1 21 		3	·· ·i3 ··	16	1				1	14					7 4 173 	16 10 335 2 1 17	8 9 10 11 12
GENITO- URINARY	Bladder	14 15 16 17 18				*******						:: :: :: 1			::	1 1	1 1 						2	::			:: 1 :: 1 :: 1 :: 1		:: 1 1 	::::::			:::::::::::::::::::::::::::::::::::::::			6	1 1 	3 1 6 1	13 14 15 16 17 18 19
JOINTS AND BONES	Head Trunk— Ribs and Stornum Spine Arm— Shoukler Seapula Humerus Elbow Radius Ulna Hand and Wrist	. 21						1 8 			 1 12 	3		3 7 1 3	3		 1 6 2	2 2 2		1 2 10 1	1 :: :: ::		· · 6 2 1 2	2			3	::	3							1 7 23 2 ··· 7 ··· 7	1	1 9 58 3 13 	20 21 22 23 24 25 26 27 28 29
	Leg— Hip and Pelvis Femur Knee Tibia Fibula Foot and Ankle Two or more different Joints Not Classified	30 31 32 33 34 35						1 2 1	9 2 2 1	2 6 1 2	11 8 1 2	2 1 2	6 4 2 1	8 1 6 6		6 3 2	10 3 4		3 1 2	3 1 1 2	2		5 3 1 1 	3 1 	2 1 3 	5 2 1 3 2	::		4 ··· 2 ··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··			1 1 1	::	··· ·· · · · · · · · · · · · · · · · ·	2	25 1 9 2 9	19 1 1 13 8 1	49 1 28 3 1 22 13 2	30 31 32 33 34 35 36 37
MILIARY (SKIN (Lup MISCELLA)	ris (Brain)	38 39 40 41	41 ::	1 ::		- 1	22	2	1 3 2	11 5	22 1 8 3		7	8	3	. 2	3	4	1 1	3 5 1	:: 1	.:	1 1 1	₂				2	3 1	1 1	2000	3 1	::	3000		28 6 16 5	21	9	38
		42		10	-	50			97		195			201					43		- 23	41	-	- 000	29	1000			-	1	-	19	-	26	-	1463	-		
GRAND '	TOTAL	43	15	15	30	72	73	145	150	152	302	135	156	291	147	181	331	133	204	331	269	302	571	234	213	447	184	110	204	103	1 40	101	2	21	1 30	1400	1408		#3

Since 1st February, 1913, tuberculosis, both "pulmonary" and "other forms" has been compulsorily notifiable; previous to that date it was only partially notifiable.

The table below differentiates the male and female cases at certain specified age groups:—

Years.	0 to 1.	1 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 35.	35 to 45.	45 to 55.	55 to 65.	65 and up.	Total.	Total, M. & F.
187 300		I	Puln	iona	ry	tube	rcul	osis			in	9	
913. M. (11 F. (6	24 28	97 100	70 104	$\frac{129}{158}$	131 188	311 296	292 201	228 103	114 65		$\frac{1426}{1274}$	} 2700
914., M. {	6 3	40 32	80 115	83 107	112 140	172 181	329 336	315 225	240 107	107 47	23 20	1507 1313	282
915 M.	5 5	47 27	97 96	79 111	$\frac{127}{152}$	138 191	305 383	303 239	235 100	117 60	34 21	1487 1355	287
916 M. (1 2	31 24	71 81	77 96	121 165	157 186	331 345	296 220	190 98	96 52		1407 1282	268
917 ^M . {	4 2	20 22	77 90	62 100	113 129	104 155	262 296	268 185	190 107	90 50		1220 1155	237
918 ^M . {	3	35 24	55 69	59 74	140 139	108 166	300 297	317 207	232 117	98 52		1375 1159	253
919 ^M . {	2 5	22 14	53 54	55 80	94 126	107 161	238 261	212 184	165 99	91 41	17 24	1056 1049	210
		No	n-pı	ılmo	nar	y tu	ber	culo	sis-	_			
913. M. ((11 F. (29 28	128 118	177 134	137 132	98 118	58 86	71 80	48 47	27 29	18 19	3 7	794 798	} 159
1914. F.	43 37	111 88	131 98	95 89	77 77	36 44	47 58	23 27	20 12	14 6		600 540	} 114
1915 M.	39 26	109 88		93 88	61 84	46 53	50 61	29 33	14 15	5 7		562 566	1112
1916 M.	20 8	127 68	135 122	99 114	65 85	42 46	47 65	34 41	12 19	13 11		599 581	} 118
1917 M. {	21 7	116 79	109 97	105 98	61 89	23 59	42 49				1 5	525 537	} 106
1918 M.	14 10	75 75		65 92	60 80		29 46				2 4	404 481	} 88
1919 M. (13 10	50 59			53 61		31 41	22 29				407 440	} 84

For reference, and for the information of the County Tuberculosis Department, a card index of every case notified is kept up-to-date in the County Public Health Department.

The administration of "Sanatorium Benefit" under the Insurance Act and the treatment of tuberculosis in general, is undertaken in this County by the County Tuberculosis Committee. The County Public Health Department supplies to the Tuberculosis Department copies of all notifications of cases of tuberculosis received weekly from district Medical Officers of Health.

The Public Health (Venereal Diseases) Regulations, 1916.

—Under these Regulations the County Public Health
Department has prepared and put into operation a scheme
for the diagnosis and treatment of venereal diseases.

The scheme provides facilities for-

- (1) enabling any medical practitioner practising in the area of the County Council to obtain, at the cost of the County Council, a scientific report on any material which the medical practitioner may submit from a patient suspected to be suffering from venereal disease.
- (2) the treatment at and in hospitals or other institutions of persons suffering from venereal disease, and
- (3) supplying medical practitioners with salvarsan, or its approved substitutes, for the treatment and prevention of venereal diseases.

The facilities mentioned, both for diagnosis and treatment, are available to registered medical practitioners without charge to them or to their patients.

(1) Provision of Laboratory Facilities for Diagnosis and Guidance in Treatment.

Arrangements have been made by which any medical practitioner practising in the area of the County Council will be supplied gratuitously with the necessary outfit for collecting material for examination from persons suspected to be suffering from venereal disease, and a scientific report upon the material submitted will be furnished.

The Laboratories available for such examinations are :-

LIVERPOOL ... The University of Liverpool, City
Laboratories, and School of
Hygiene, Mount Pleasant (Prof.
Beattie).

Manchester... The University of Manchester, Pathological Department, Oxford Road (Prof. Dean).

Burnley ... The Borough Health Department Laboratory (Dr. R. J. M. Horne).

Nature of Examination.

- (a) Microscopic examination of discharges for detection of gonococci, confirmed in exceptional cases by cultural methods.
- (b) Microscopic examination of discharge from sores, mucous patches, condylomata, &c., for the detection of spirochetes or of other organisms.
 - *(c) Wassermann tests on the blood serum of patients—
 (i.) for the diagnosis of syphilis.
 - (ii.) as a control of the effect of treatment.
- (d) Examination of fœtal tissues for the presence of spirochetes.
- (e) More rarely Wassermann tests and microscopic examination of the cerebro-spinal fluid of patients.
- (f) Other tests directly concerned with the diagnosis or treatment of venereal diseases.

Outfits for forwarding specimens to the laboratories are supplied gratuitously on application to the Public Health Department, County Offices, Preston.

^{*}Specimens of blood for Wassermann tests should be forwarded as early in the week as possible, to arrive at the Laboratory not later than first post on Friday morning, in order that the specimens will not have to be kept over the week-end before the examination is completed.

(2) TREATMENT CENTRES OR CLINICS.

Arrangements for Treatment.

The County Council has made arrangements with the undermentioned Institutions for the treatment of patients residing in the County Council's area (revised August, 1920):—

Treatment Centre.	Days and Hours of	Out-Patient Clinic.
	MALES.	FEMALES.
Ashton-under-Lyne District Infirmary, Darnton Road	Wednesday, Thursday, 6 Friday, 3—	8 p.m.
Barrow-in-Furness, North Lonsdale Hospital, School Street	Wednesday, 10 a.m. Thursday, 8 p.m. Saturday, 10 a.m. Irrigate Daily, 10 a.m., 12 noon, and 6—7 p.m. N.B.—Appreher themselves at the Cl	Daily, 10 a.m.
Blackburn and East Lanca- shire Royal Infirmary	Monday, 5—7 p.m. Wednesday, 3-30 p.m. N.B.—New pati themselves 15 mir hours.	Tuesday, 4 p.m. Wednesday, 5—7 p.m. tents should present autes before above
Blackpool Victoria Hospital, Whitegate Drive	Monday, Wednesday, Thursday, and Saturday, 11 a.m.—12-30 p.m.	Tuesday and Friday, 11 a.m.— 12-30 p.m.
Bolton Public Health Depart- ment Clinic, Howell Croft, North	Monday, 7 p.m. Tuesday, 7 p.m. Wednesday, 11 a.m. and 7 p.m.	Thursday, 7 p.m. Saturday, 10 a.m.
Bootle Borough Hospital, Derby Road	Monday, 5-30 p.m. Thursday, 12 noon Friday, 5-30 p.m.	Monday, 12 noon Friday, 5 p.m.
Burnley Victoria Hospital	Monday, 10—11 a.m., 5-30—7 p.m.	Friday, 11 a.m.—12 noon; 6—7 p.m.
Bury Dispensary, The Wylde	Friday, 6-30—8-30 p.m.	Tuesday, 6-30— 8-30 p.m.

Treatment Centre.	Days and Hours of Out-Patient Clinic.
AND DESCRIPTION OF THE PARTY OF	MALES. FEMALES.
Liverpool Royal Infirmary, Pembroke Place	New Patients:— Monday, 12 noon Wednesday, 5 p.m. Friday, 12 noon Continuation Treatment:— Daily, 5—6 p.m. (except Saturday, Sunday and Monday) Daily, 2—4 p.m. (except Saturday, Sunday and Monday)
Liverpool David Lewis Northern Hospital (en- trance in Leeds Street)	New Patients:— Monday and Friday, 5—6 p.m. Wednesday, 5—6 p.m. p.m. Continuation Treatment:— Tuesday, Wednesday, Thursday, and Saturday, 6—8 p.m.
Liverpool Royal Southern Hospital, Caryl Street	New Patients :— Tuesday, 5 p.m. Friday, 1·30 p.m. Saturday, 1 p.m. Continuation Treatment :— Daily, 5 p.m. (except Sunday) Saturday, 1 p.m. New Patients :— Thursday, 5 p.m. Daily, 5 p.m. (except Sunday) Saturday, 1 p.m.
Liverpool Stanley Hospital, Stanley Road, Kirkdale	New Patients :— Monday and Thursday, 5—6 p.m. Continuation Treatment :— Daily, 6—7 p.m. (except Tuesday, Saturday, and Sunday) Tuesday, 5—6 p.m. Saturday, 12 noon Daily, 11 a.m. (except Sunday)
Liverpool Cancer and Skin Hospital, Myrtle Street	New Patients:— Daily, 1—2 p.m. Thursday, 5-30—6 p.m. Continuation Treatment:— Daily, 9—10 a.m., 1—2 p.m., and 6— p.m. Sundays, 11 a.m.—12 noon

Treatment Centre.	Days and Hours of Out-Patient Clini	ie.
Bernings & Tenting	MALES. FEMALES.	
Manchester Royal Infirmary, Oxford Road	Diseases of Skin:— Wednesday, 6—8 Thursday, 11 a.m. p.m. to 1 p.m. Diseases of Genito-Urinary Organs:- Thursday, 6—8 Wednesday, 11 a.m.—1 p.m. Diseases of Skin and Genito-Urinary Organs:— Friday, 4-15—6-15 Thursday, 9—11 a.m.	
Manchester and Salford Lock Hospital, Duke Street, Liverpool Road	Monday, 5—7 p.m. Tuesday, 5—7 p.m. Thursday, 5—7 p.m. Friday, 5—7 p.m. Wednesday, 5—7 p.m.	
Manchester and Salford Hospital for Skin Diseases, Quay Street, Deansgate (Syphilis only treated at this Hospital)	Daily (Sunday excepted) 9—10 a.m. 9—11 a.m. Children, 9—11 a.m.	
Manchester, St. Mary's Hospitals (Whitworth Street West Branch), Oxford Street	Daily (Saturday Sunday except 9—10-30 a.m. Wednesday, 5—7 p.m.	ed)
Manchester, Ancoats Hospital, Mill St., Ancoats	Wednesday, 5-30— Wednesday, 11-3 7 p.m. a.m.—1 p.m. Saturday, 5—7 p.m.	0
Oldham Royal Infirmary,	New Patients :—	
Union Street West	Tuesday, 8-30 p.m. Tuesday, Wedn day, Thursda and Friday, p.m.	y,
Contraction of the Contraction o	Continuation Treatment:— Tuesday, 8-30 p.m. Tuesday and Wednesday and Friday, 2-30 p.m. Thursday, 2-30 p.m.)
Preston Royal Infirmary, Deepdale Road	Wednesday, 4-30—7 7 p.m. Friday, 4-30—7 p.m.	

Treatment Centre.	Days and Hours of	Out-Patient Clinic.
	MALES.	FEMALES.
Rochdale Infirmary, Red- cross Street	Tuesday, Friday, 5-30 p.m.	
Salford Royal Hospital, Chapel Street. Out-patient Clinic—1, Adelphi Place, back of Hospital	Skin Depa Monday, 12 noon Thursday, 6 p.m. Genito-Urinary Tuesday, 12 noon Friday, 6 p.m.	rtment:— Monday, 12 noon Wednesday, 6 p.m Department:— Tuesday, 12 noon Friday, 6 p.m.
Southport Infirmary, Scar- isbrick New Road	Daily (except Sunday), 8-30 a.m. Monday to Friday, 6 p.m. Saturday, 2-30 p.m.	Daily (except Sat- urday and Sun- day), 2 p.m.
St. Helens Corporation Hospital. Out-patient Clinic—18, Claughton Street	Monday, 6—7 p.m. Disinfection an Daily, 9-30 a.m.	Wednesday, 7—8 p.m. (and Children) d Irrigation :— , to 5-30 p.m.
Warrington Infirmary and Dispensary, Kendrick St. Out-patient Clinic—Beau- mont Street entrance	Tuesday, 3-30 p.m. Saturday, 5 p.m.	Tuesday, 5 p.m. Saturday, 3-30 p.m.
Wigan Royal Albert Edward Infirmary, Wigan Lane	Tuesday, 4 p.m. Friday, 10 a.m.	Tuesday, 5 p.m. Friday, 10 a.m.

Each Institution is available for the *free* treatment of all comers, without distinction as to means, or as to place of residence.

Every patient attending for diagnosis or treatment can be assured that, although his home address will be kept confidentially for reference, it will never be communicated to others. It is necessary for the Medical Officer of the Institution to have the home address, in order to arrange subsequent appointments.

Patients attending for the treatment of venereal diseases will not be distinguished in any way from patients attending for treatment of other diseases. A nurse will always assist at the clinic for women.

Patients requiring Institutional treatment, e.g., injections of salvarsan or its approved substitutes, &c., will, if necessary, be admitted as in-patients.

A medical practitioner will, by appointment, be able to consult with the Medical Officer of a particular clinic respecting any case of suspected venereal disease under his care.

The Medical Officer of the clinic will, in cases where such action is desired, furnish the patient's own medical adviser with a report on the patient's treatment at the clinic, with suggestions as to continued treatment.

Further facilities for medical practitioners will be offered, when circumstances permit, such as:—

- (a) demonstrations and post-graduate courses at the Treatment Centres,
- (b) consultations with the Pathologist or the Medical Officer of the Treatment Centre, and
- (c) assistance in the taking of difficult specimens.
- (3) Supply of Salvarsan or its Approved Substitutes.

The County Council supplies to medical practitioners, approved under the Regulations for such purpose, salvarsan or its approved substitutes free of cost.

The following drugs have been approved:-

Kharsivan Galvl

Arsenobillon Neokharsivan Novarsenobillon Salvarsan Diarsenol Neodiarsenol

A medical practitioner desirous of having his name placed on the County list for the gratuitous supply of salvarsan or its approved substitutes may apply to the County Medical Officer of Health for a form on which to give the necessary particulars of his training or experience in the administration of these drugs.

PRINTED FORMS OF INSTRUCTIONS TO MEDICAL PRAC-TITIONERS, PATIENTS, AND THE PUBLIC GENERALLY.

A supply of the undermentioned forms and leaflets is available, and copies will be sent on application to the

County Public Health Department, County Offices, Preston:—

- (a) Application by medical practitioner for pathological outfit (Form V. I).
- (b) Application by medical practitioner for supply of approved substitutes for salvarsan (Form V. 2).
- (c) Warning to patient as to care after administration of salvarsan substitute (Form V. 3).
- (d) Particulars to be supplied by the medical practitioner with each specimen sent to the laboratory (Form V. 4).
- (e) Report of pathologist respecting specimen sent by medical practitioner (Form V. 5).
- (f) Instructions to patients suffering from syphilis (Form V. 6).
- (g) Instructions to patients suffering from gonorrhea (Form V. 7).
- (h) Information to the public on the dangers of venereal diseases and on the facilities for treatment (Form V. 8).
- (i) Leaflet to seamen (Forms V. 14 and 15).

Any further information relative to the scheme can also be had on application to the County Medical Officer of Health.

TREATMENT CENTRES .--

Work carried out during the year ended 31st December, 1919.

The information obtained from the Institutions with which the County Council has arrangements regarding persons residing in the County area attending for treatment during the year ended 31st December, 1919, is tabulated in the following table:—

Syphilis. Soft Gonorrhoea Conditions County Number of Other than Period County Number of Other than Period Chance Chan		Numbe for the fi	r of Count rst time an	Number of County Residents attending for the first time and found to be suffering from :—	attending be suffering	Total Number of Attendances	Aggregate	Number of
Properties 90	Institution	Syphilis.	Soft	Gonorrhea	Conditions other than Venereal.	of County Residents at Out-patient Clinic.	Number of In-patient days.	Doses of Salvarsan substitutes.
Royal 158	Ashton-under-Lyne District Infirmary Barrow-in-Furness North Lonsdale Hospital	90	1 :	12	13	1156	62 24	642
trick of the control	Blackburn and East Lancashire Royal	-				0		}
nt Clinic 36 21 411 90 132 97 40 1982 7 156 40 50 21 1567 87 Established January, 1920. 1 Hospital 6 69 11 50 1 tatl 31 110 322 1 tatl 10 37 88 89 1 tor Skin 127 2 14 29 8214 36 1 tor Skin 127 2 14 29 886 1 to 88 4 29 886 1 to 88 4 29 887 1 throught 18 88 1 through 18 88 1 throug	Blackpool Victoria Hospital	158 33	57 85	45	45	1950	326	722
nt Climic	*Bolton Infirmary	36	:		21	411	90	225
linic 108 26 50 21 1567 87 Hospital 65 69 23 1920. Hospital 65 69 23 1920. Ital 155 6 6.1 87 Sopital 1510 94 729 408 22732 2838	•	1925		97	40	1982	1-0	800
limic 65 69 23 16 tal 3 1 50 ttal 3 1 35 ital 3 10 38 ital 31 37 322 126 ital 37 12 618 88 16 88 16 88 16 84 16 1273 126 126 88 88 11 886 84 84 84 84 84 84 84		108	26	50	21	1567	87.2	668
Hospital 65 69 23 1233 16 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Bury Tuberculosis Dispensary Clinic	-		Establ		y, 19		
tal 6 1 35 136 14 35 150 37 38 150 37 38 1510 37 38 1510 37 38 1510 37 38 38 37 38 38 37 38 3	_	69	:	69	23	1233	91	255
ospital		9	: :	1		200	: :	19
ospital 31 10 322 126 126 ospital 1510 37 12 618 16 18 16	Liverpool Stanley Hospital	60	:	1	:	38		13
ospital 155 6 61 8 27 2720 1 for Skin 127 2 14 29 3214 36 1 for Skin 127 2 14 29 3214 36 2		31		37		618	126	130
ospital 41 10 37 27 806 1273 I for Skin 127 2 14 29 3214 36 73 2 35 11 886 65 8 4 29 847 88 4 29 847 67 88 4 186 1510 94 729 408 22732 2838	: :	155	9	61	300	2120	07 :	570
From Same 127 2 14 29 3214 36 133 14 29 3514 36 133 14 36 133 15 11 886 133 133 15 11 886 133 15 11 889 15 15 15 15 15 15 15 15 15 15 15 15 15	Manchester-and Salford Lock Hospital	41	10	37	27	908	1273	363
1 2 35 4 20 133 1 35 11 886 133 1 88 4 29 11 886 159 1 88 4 29 1 159 159 1 15 2 8 1 181 84 1 18 11 148 31 1 18 16 909 78 1 1510 94 729 408 22732 2838		127	03	14	29	\$214	36	538
73 2 35 11 886 133 65 8 4 29 889 88 4 29 847 159 15 2 8 13 11 148 31 1510 94 729 408 22732 2838	Mary's Hospitals	01		01	+	20		9
firmary 1510 94 729 408 22732 2838	Oldham Royal Infirmary	73	01.0	100	11	886	133	266
firmary 1510 94 729 408 22732 2838	nary	0.00	ю ч	29	đ	888	150	980
firmary 1510 94 729 408 22732 2838		67	:	79	7.1	2014	186	390
<td>:</td> <td>15</td> <td>01</td> <td>00</td> <td>:</td> <td>181</td> <td>84</td> <td>105</td>	:	15	01	00	:	181	84	105
1510 94 729 408 22732 2838	dward Infirmary	18 95	: 10	13	11	148	2.5	48
1510 94 729 408 22732 2838		0.000	0.4	000	0.00			000
		1510	94	729	801	22732	5838	8438

7 Treatment Centre discontinued 31st August, 1919.

PATHOLOGICAL EXAMINATIONS.

Outfits to the number of 766 have been supplied to medical practitioners for the purpose of sending specimens for pathological examination.

Department		of outfits issue edical practition	
Prosting to a land	Wassermann test.	Detection of Spirochæta pallida.	Detection of Gonococci.
Year ended 31st December, 1919.	405	43	62
Total from commence- ment of County Scheme to 31st Dec., 1919	600	53	113

SUPPLY OF SALVARSAN OR ITS SUBSTITUTES.

The following statement shows the number of doses of salvarsan or its approved substitutes supplied to medical practitioners:—

		21			sup	r its applied ractitic	to m	edic		sti-
atoW it	No. of medical practitioners "approved" for supply of Salvarsan Substitutes.	Kharsivan.	Arsenobillon.	Novarsenobillon.	Diarsepol.	Galyl.	Neokharsivan.	Salvarsan.	Neodiarsenol.	TOTAL.
Year ended 31st Dec., 1919	38	50	-	627	3013	152	36	16		881
Total from comence- ment of County Scheme to Dec. 31st, 1919	65	52	10	689	dui i	319	44	24	12	1150

PROPAGANDA WORK.—During the year a considerable amount of educational work has been carried out through the central office and by the two organising lecturers appointed by the County Council, viz.:—

Miss M. M. Tipper, 6, Hartington Road,
Preston;
or Public Health
Department,
County Offices,
Rochdale;
Preston.

To the end of the year propaganda work had been initiated in 111 of the 122 County districts. In many areas local Propaganda Committees have been established, and in some districts considerable vigour has been shown in the attempt to arouse public interest, and to bring about a realisation of the dangers of venereal diseases and the importance of early and adequate treatment. The interest and sympathy of many employers of labour have also been obtained, thus permitting direct communication with a large body of employees.

The following tabular statement shows the approximate attendances at lectures and workshop meetings up to June 30th, 1920, a total of 49,965:—

APPROXIMATE AUDIENCES REACHED BY PROPAGANDA WORK.

Ad	ctures a dresses rganisin turers,	by ng		Medica Jecture		Lectures to Teachers.	Lectures to Mothers.	Lantern Lectures.	Film Lectures.		orks tings.
Men.	Women	Mixed.	Men.	Women	Mixed.	Н	I			Men.	Women
1516	2265	9620	8927	5160	500	460	2415	5470	2300	9010	7822

DISTRIBUTION OF LITERATURE.—At every lecture and works meeting a supply of suitable literature, prepared by the National Council for Combating Venereal Diseases, has been distributed.

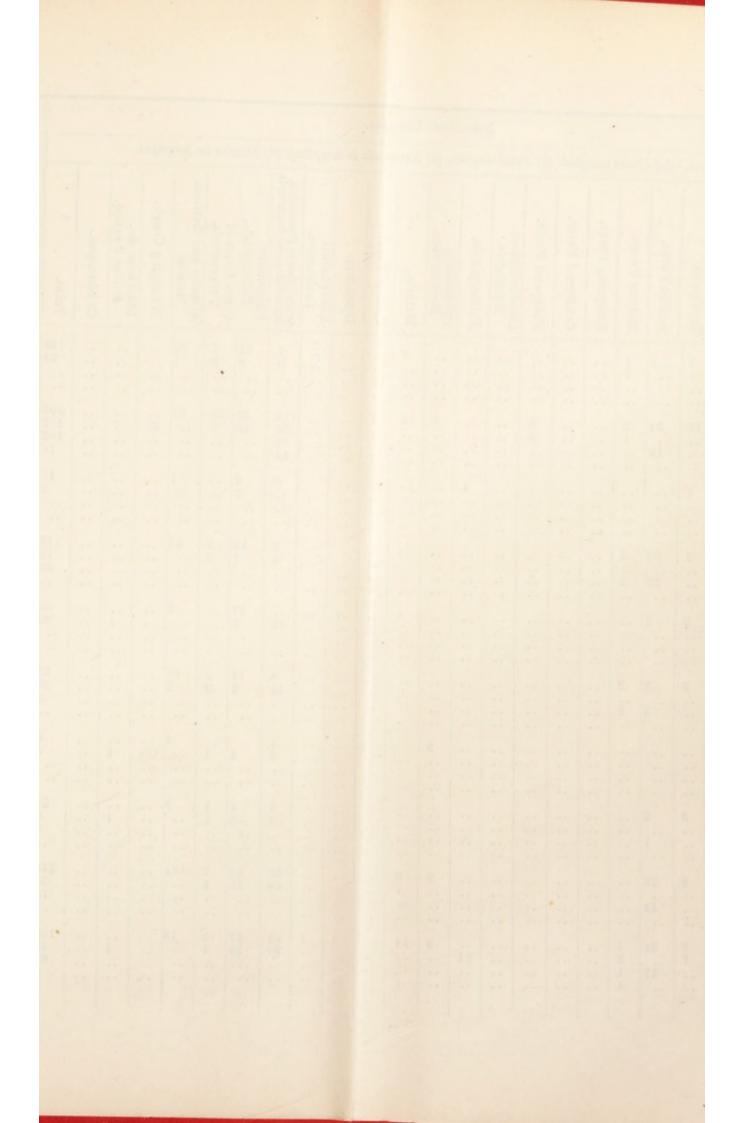
TABLE (F) showing HOSPITAL ACCOMMODATION and DISINFECTING APPARATUS provided in or for each of the County Districts; also NUMBER OF CASES OF INFECTIOUS DISEASES NOTIFIED, REMOVED TO HOSPITAL, &c.

(a) (c) (d) Totals supplied by local Medical Officers of Health ; (b) by Registrar-General.

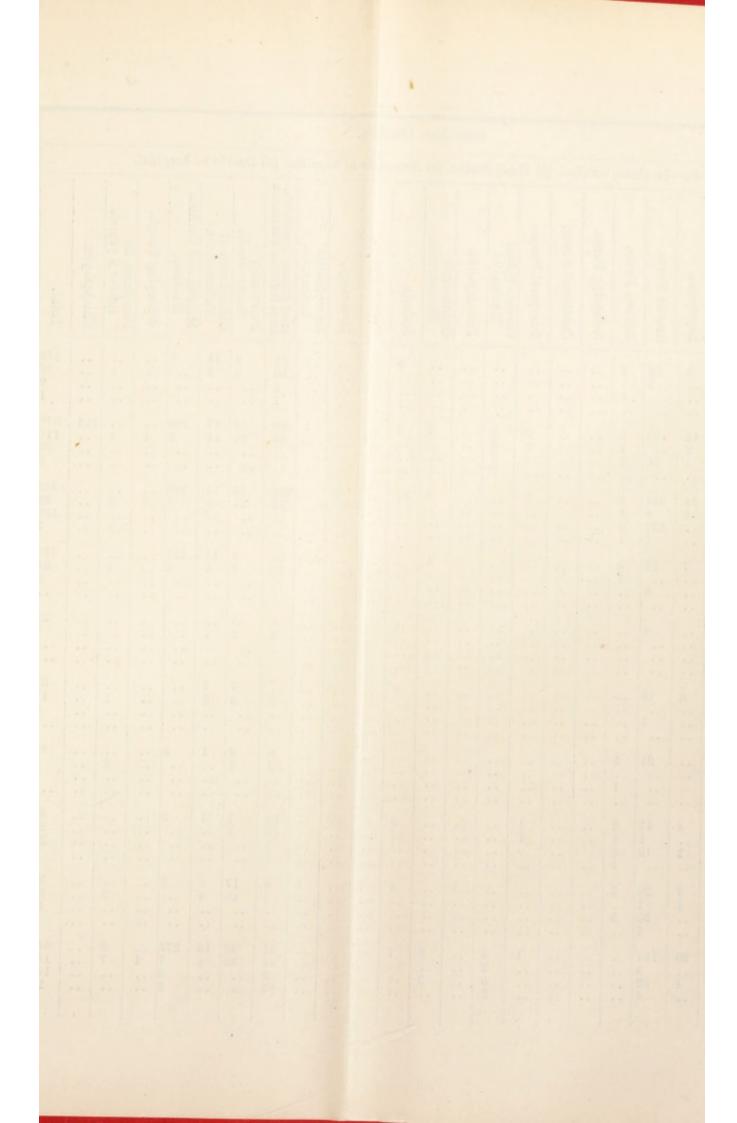
	Nature of Hosnita	al accommodation.											Infe	ctiou	s Dis	eases											Disinfection
		ar accommodation,			V	Tote	-(a) (Cases	noti	fied.	(b) T	otal o	leath	is. (c)	Rem	ovals	to h	ospite	al (d	Dea	iths i	n hos	pital	1.			Distintection
District.	For ordinary infectious diseases.	For Small-pox.		Small-pox.	Diphtheria and Membranous Croup.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Relapsing Fever.	Continued Fever.	Puerperal Fever.	Cerebro-Spinal Meningitis.	Poliomyelitis.	Ophthalmia Neonatorum.	Malaria	Trench Fever.	Dysentery.	Encephalitis Lethargica.	Acute Primary Pneumonia. Acute Influenzal Pneumonia	Pulmonary Tuberculosis.	Other forms of Tuberculosis,	Measles and German Measles.	Whooping Cough.	Diarrhosa, &c. (under 2 years).	Chicken-pox.	Total.	Apparatus and where situated,
Abram	8 beds	Iron building— 4 beds*	(a) (b) (c) (d)	::::	3	2	14			::			::	1	1			::::	11 13 1	5 6	3 2	54		`i	::::	94 22 13	Steam—Hospital
Accrington (B.)	Bury Joint Hospital by agreement	24 beds	(a) (b) (c) (d)		26 11 	8	18	2			3 2		1	19	4 :::			::::	75 55	52 29	19 9	188	4	·:		415 116 2	Steam—District
Adlington			(a) (b) (c) (d)		1 1 	6	12							1	3				11 3	6 3	5 2	::		2		100	None. (Formalin Sprayer)
Chorley (B.)	Joint at Heath Charnock, 36 beds		(a) (b) (c) (d)		53 12 21 4	11	29 26	5 2 3			1		1	1	28		2	1	36 36 	33 16 	13 3	61		14.11		500	Steam — Town's Yard
Leyland			(a) (b) (c) (d)	::::	8 1	3	16 2		::::		::	:::							111	8 10 	4 2	6				46 24 2	No proper appliances
Chorley (R.)	J		(a) (b) (c) (d)		14 1 7	6	44 1 36 1	1	:::::::::::::::::::::::::::::::::::::::		1		2		8		1		21 23	25 16 	12 6 	11		3		146 51 43 1	No proper appliances, but can send to Chorley (B.)
Ashton-in- Makerfield	40 beds (Long Lane)	8 beds (Edge Green)*	(a) (b) (c) (d)		63 3 60 3	8	225 2 173 2	4 1 3		:: ::	2			4	8	::	1		62 31 1	35 21 	14 5 	46	`i 	ii ::		472 77 237 5	Steam—Hospital
Aspull	At Wigan Borough i		(a) (b) (c) (d)		14	17 1 	70 2 3	::::		::	::::	::		1	2				31 25 	5 7	1	7		6		148 42 3	Steam—Wigan Sana- torium
	Combine	d under the Wigan an	d Dis	trict	Joint	Hos	nital	Ordo	r for	the r				131		.11	-			-				-		-	

^{*}Combined under the Wigan and District Joint Hospital Order for the purpose of providing a small-pox hospital. † Inward transfers. ‡ Cases not notified.

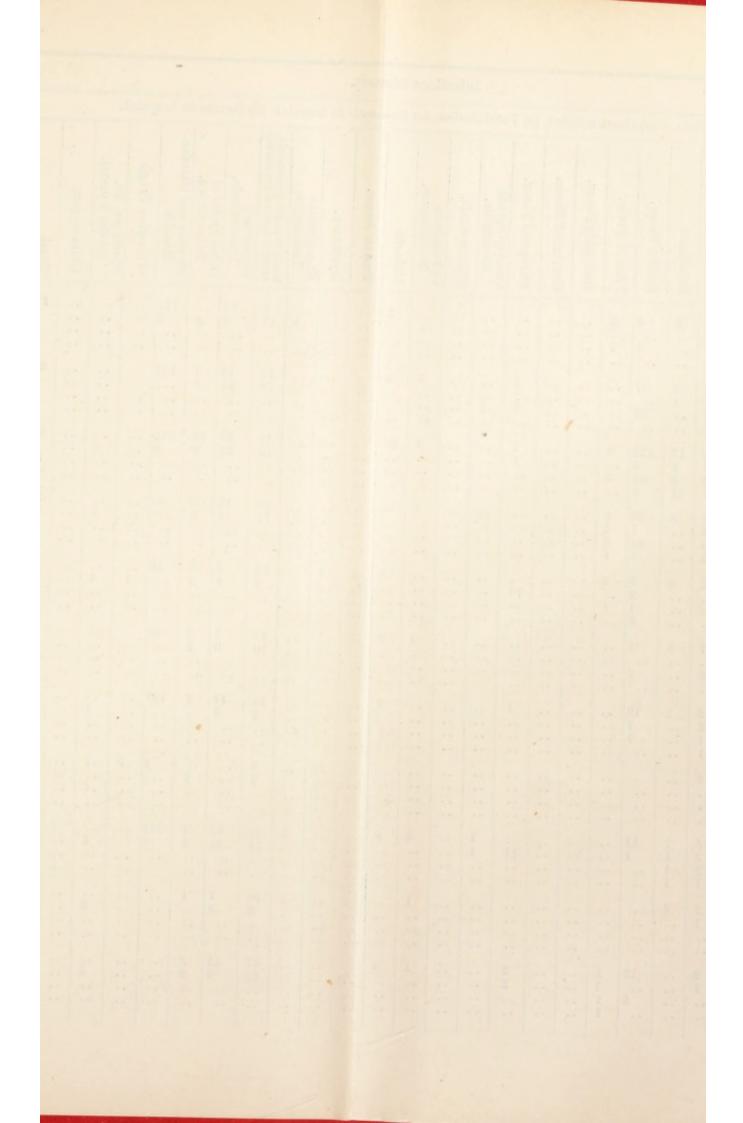
Note.—Tuberculosis cases removed to Hospital or Sanatoria not shown under (c) and (d). Acute primary pneumonia and acute influenzal pneumonia notifiable; deaths from all forms of



	N	1										ection		1000											Disinfection.	
	Nature of Hospital accommodation	1.		Note.	—(a)	Case	s not	ified.	(b) I	"otal	death	is. (c)	Rem	oval	s to h	ospite	al. (d	l) De	aths	in hos	spita	l.	-	-		
District.	For ordinary infectious diseases.		Small-pox. Diptrueria and Membranous Croun.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Relapsing Fever.	Continued Fever.	Puerperal Fever.	Cerebro-Spinal Meningitis.	Poliomyelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis. Lethargica.	Acute Primary Pneumonia, Acute Influenzal Pneumonia	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Measles and German Measles.	Whooping Cough.	Diarrhosa, &c. (under 2 years).	Chicken-pox.	Total.	Apparatus and where situated.	No. of Houses or Rooms dis- infected,
Ashton-under- Lyne (B.)	20 beds	(a) (b) (c) (d)	18 5 5	19	90 1 44	3 1 1			1 1	2 1		8	27		3	1	94 77 	67 42 	15 15 	92 1 		io 		440 155 50		229
Audenshaw	2 beds, Hyde Borough hospital Joint at Harts head—12 bed			2	15 1 1		::		::		::	1	4				16 8	10 4	6 2			`i ::		65 16 1	under-Lyne (B.)	18
Hurst	Nil	(a) (b) (c) (d)	∷ †i ∷ †i	6 †1 `i	34	1	:::		::	::::	::	2	4		2		19 7	9 7	1	8 1		::::		87 19 2	Steam—Hospital	87
Limehurst (R.)	Nil	(a) (b) (c) (d)	2	5	11	:::	:::		::		::	1	6		1		44 16 	16 5	4	85	::	3		171 30	Steam—Ashton- under-Lyne (B.)	16
Atherton		(a) (b) (c) (d)	82 8 43 2	22	39 23 	1 'i	::		1		::	7	23		2		33 17 	17 11 	15 6	191	4	5		433 59 67 2		148
Golborne		(a) (b) (c) (d)		4	12				::		†i 	1	12		::::		25 6	12	5 1	2 1 	::	`i		74 12 9	Steam—Hospital	20
Leigh (B.)	Joint at Astley for all purposes:— 64 beds and 38 30 beds cots.	(a) (b) (c) (d)	101 10 81 6		26 9	6 1 3	::::		2 2	2 1 1		34	39		3	1	71 50 	65 50 	52 8 	1002 24 †2	· · · · · · · · · · · · · · · · · · ·	27		1440 176 94 8		243
Tyldesley-with- Shakerley		(a) (b) (c) (d)	12 3 8	::	39 14	7 1 6 1	::	::	1		::	7	20		1		28 41 	25 17 	16 4 	105		7		273 76 28 3		65
Leigh (R.)	J	(a) (b) (c) (d)	15 2 13 1		1	::::		:::	‡i			1	3				22 19	9 7	10	84	::	2		151 32 13 1		110
Bacup (B.)	Arrangement with Bury Joint Hos- pital Board Joint at Todm den—32 bed			1	6	::	:::	::	‡i 			6 3	2				40 12 1	21 9 	12 7 	44 2		ï	45	206 34 4		91
		1 4		1	1					1 3		1	1							-		1	1			

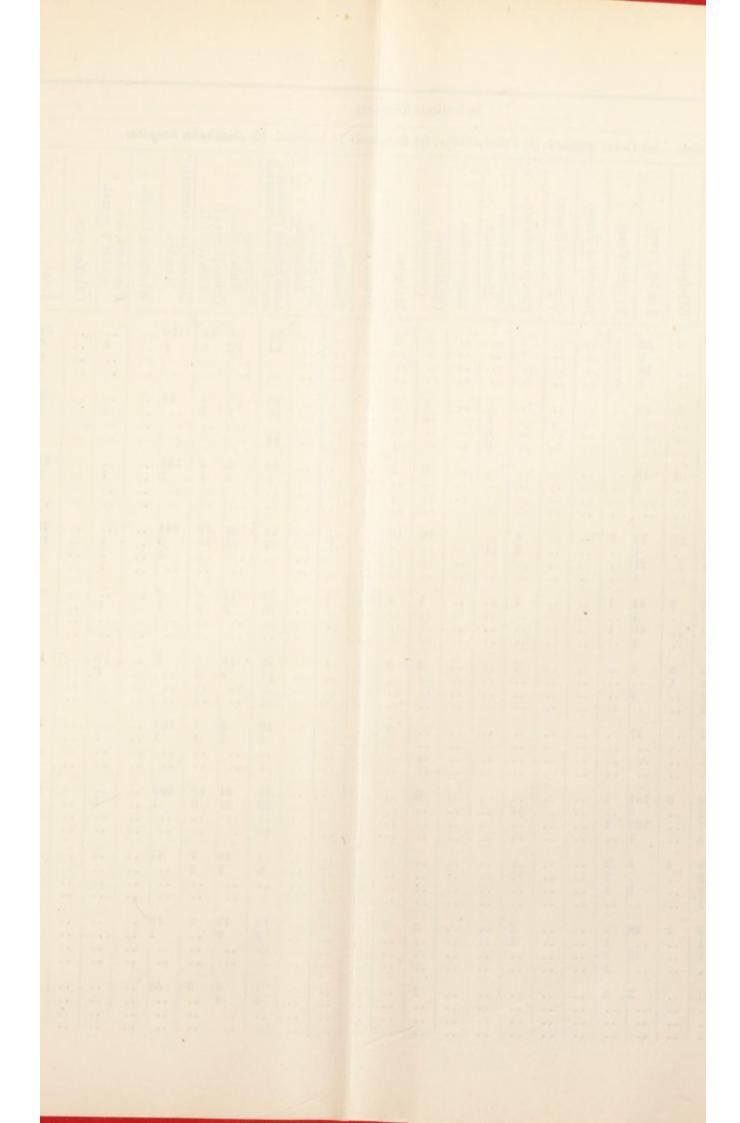


	Nature of Hospita	l accommodation													s Dis										_	_	Disinfection.	
	Timene or Exception	accommodas ()			N	Tote	-(a)	Case	s not	ified.	(b) I	Cotal	deati	hs. (c) Ren	iova	ls to	hospi	tal. (d) De	aths 1	in ho	spita	l.		-		
District.	For ordinary infectious diseases.	For Small-pox		Small-pox.	Membranous Group.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Relapsing Fever.	Continued Fever.	Puerperal Fever.	Cerebro-Spinal Meningitis.	Poliomyelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis Lethargica.	Acute Primary Pneumonia. Acute Influenzal Pneumonia	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Measles and German Moasles.	Whooping Cough.	Diarrhoa, &c. (under 2 years).	Chicken-pox.	Total.	Apparatus and where situated.	No. Hot Roo di infec
eetwood			(a) (b) (c) (d)		57 5 20 1	25	176 108			::	1°	1	::	1	1				20 11 	16 13 	3 4	82	`i ::	3	::::	383 39 128 1	Steam—Town's Yard	2
irkham			(a) (b) (c) (d)		3 2 2 1		2			::					1	**			3 5	12 3 	3					25 13 4 1	No proper apparatus	
ytham			(a) (b) (c) (d)		4 2 2 1	#1	62 2 57 2	2		::		::							5 10 	6 4	`i .:	96		4		178 30 61 3	Steam—Destructor Works	(ro
oulton-le-Fylde	Joint at Moss Side, 48 beds and 12 cots		(a) (b) (c) (d)						::	::	::	:::	::		3				1			6		`i	9	20 1 	No proper apparatus	2
. Annes-on-the- Sea		Joint at Elswick (With Preston (RJ, dc. See next) april 15 beds	(a) (b) (c) (d)		13		32 1 23 1								1				5 6	13 8	2	32	6			103 17 30 1	Steam—Adjoining Refuse Destructor	
hornton	The state of the s		(a) (b) (c) (d)		4		59 59 59										***		12 4	6 3	1	19				102 9 62 2	No proper apparatus	
ylde (R.)	J	100	(a) (b) (c) (d)		2 1 2 1	::::	10				1 1 1			2				1	13 10 	8 5	2	9				52 18 14 3	No proper apparatus	
reesall	At Fylde, &c., joint (Moss Side)		(a) (b) (c) (d)		1	1	3	::	::::		::				2					3 1	2	5				17	No proper apparatus	
arstang (R.)	Nil		(a) (b) (c) (d)	::	25 1 2 1	2	8 4	1			1			1	1				8 4	5 8	3	9		3				



	Nature of Hospita	l accommodation.											-	ctiou		100											Disinfection.	
						Note.	—(a)	Case	es not	ifled.	(b) T	Cotal	deat	hs. (c) Ren	ova	ls to	hospi	tal. (d) De	eaths	in ho	spite	al.	-	_		
District.	For ordinary infectious diseases.	For Small-pox.		Small-pox.	Diphtheria and Membranous Croup.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Relapsing Fever.	Continued Fever.	Puerperal Fever.	Cerebro-Spinal Meningitis.	Poliomyelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis Lethargica.	Acute Primary Pneumonia.	Pulmonary Tuberculosis.	Other forms of Tuberculosis	Measles and German Measles.	Whooping Cough.	Diarrhora, &c. (under 2 years).	Chicken-pox.	Total.	Apparatus and where situated.	No. Hou o Roo dis infec
Fulwood	1	1	(a) (b)		6	1	1		::		1		::	::	1				16 3	6 4	i	13				11	Steam—Hospital	-
	The state of		(o) (d)		4			::	::												::				::	4		
Longridge	Joint at Fulwood 45 beds	Joint at Elswick (With Fylde, de. See previous page)	(a) (b) (c) (d)		8 1 8	3	8		.:				:::						9	2 7	ï	.:				23 18 16		
			2000					**	**										**						**		St. W. ital	
Preston (R.)	,		(a) (b) (c) (d)	::	11 3 6 1	5	39	3	:::::::::::::::::::::::::::::::::::::::		2	1			5				24 7	8 12	3	21	::::	i	:::::	28 49 1	Steam—Hospital	1
Barrowford	At Nelson Boro. hospital	At Nelson Boro. hospital	(a) (b) (c) (d)		1	5	7		.:	.:		:::		1					5 3	1 2	:::		:::	3		27 8	Steam—Nelson (B.)	
Billinge	Nil	Cottage—4 beds*	(a) (b) (c)		3 1	1	4				1 1	:::		1	3			1	1 1	7 5	3 2			i		25 11	No proper apparatus	
Blackrod	1	Nil*	(d) (a) (b)		3 1	4	2	1			1		1		1				9 5	3 6	4 1	5		··i		34 14	Steam—Hospital	
Horwich	Joint at Fall	Temporary hospita —5 beds*	(c) (d)		3 1	5	3	::				::	::	::	13				68	16	14	20		::			Steam—Hospital	
	Birch, Horwich, 55 beds	-5 beds*	(b) (c) (d)	::	8		`i	†1		::	‡1 	::	::						12	14		::		2	::	33		
Westhoughton	J	Temporary hospita —12 beds*	(a) (b) (c) (d)		14 6 5 4	2	25 20	5			3 2	1	1	3	7				18 16	6	16					102 32 30 4	Steam—Hospital	
Brierfield			(a) (b) (e)	::	1 'i	4	1		::				1 1		10				30 14 1	11 9	6	10		ï		74 25 4	Steam—Burnley C.B.	
Padiham	Joint with Burnle purposes (Kibble Bank)	y (C.B.) for all (Crown Point)	(d) (a) (b) (c) (d)	: :::	11 3 7	7 2	6 4	1		1	1	·· 1		1	15				22 5 4	13 11	6 4	12			.:::	97 23 20		
Burniey (R.)			(d) (a) (b) (c)		36 3 12	4	22	2	: :::		2 2	1	1	3	3				32 18	16 9	11 1	159	i	2		2 292 36 21	Steam—Burnley C.B.	

	Nature of Hospita	al accommodation			1								Infe	ection	s Dis	ease	5.										Disinfection.	
			1		1	Note.	—(a)	Case	s not	ified.	(b) T	otal	death	is. (c)	Rem	ovals	s to h	ospit	al. (0	l) Dec	uths 1	in hos	pita	1.			Distillection,	
District.	For ordinary infectious diseases.	For Small-pox.		Small-pox.	Diphtheria and Membranous Group.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Relapsing Fever.	Continued Fever.	Puerperal Fever.	Cerebro-Spinal Meningitis.	Poliomyelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis. Lethargica.	Acute Primary Pneumonia. Acute Influenzal Pneumonia.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Measles and German Measles.	Whooping Cough.	Diarrhœa, &c. (under 2 years).	Chicken-pox.	Total.	Apparatus and where situated.	No. of House or Rooms dis- infected
Carnlorth	2 wards—12 beds (Crag Bank)	Nil	(a) (b) (c) (d)		9 1					::::									2		`i ::	31				40 4	No proper apparatus	40
Chadderton	At Oldham Boro. hospital		(a) (b) (c) (d)		26 1 11 	25	80 1 16 1	:::::	::::	::::	1 †2 ``i			2	5		6		60 36 †4	44 13 	23 9	418 2 	::	6		690 70 27 6	Steam at hospitai, available for small-pox cases	203 (rooms)
Crompton	Do	Joint at Racefie —26 beds	(a) (b) (c) (d)		11 3 4 	12	26 2 14 1	1 'i	::::	::::	:::::::::::::::::::::::::::::::::::::::		::::	1	21				46 11 	26 12 	18	279	::	`i ::	76	517 32 21 1	Steam—Destructor Works	75
Royton	Do		(a) (b) (c) (d)		28 4 7	7	25	::::	::::	::::	1			7	18		3		21 14 1	21	9 3	316 3 18		4	13	469 43 26	Steam—Oldham C.B.	(rooms)
Church	Nil	Nil—Can send to Finnington (Blackburn)	(a) (b) (c) (d)	::::	1 :::	2		::::	::::		1	::::		3	1				12 12 	3	5 4	10	::	::		38 20 	Steam—Oswaldtwietle	27
Clayton-le-Moors	At Burnley, &c., joint hospital	At Accrington Boro. hospital	(a) (b) (c) (d)		5	5		-:::				::::	‡i ::	::::	8				5 9 	13 5	5 2	65	:::::::::::::::::::::::::::::::::::::::	2		110 19 	Steam—Accrington (B.)	18
Clitheroe (B.)	Nil	Joint with Bow- land (Yorks)- 8 beds	(a) (b) (c) (d)		1	1	5	3				::::	::::	::::	5		2		19 10 	6 7	6 4	10		`i 		58 23 	Steam—Gas Works	36
Ciitheroe (R.)	Nil		(a) (b) (c) (d)	:::	2	::	10	1		::	::::	1	::::	::::					6	4 3 	3 2			`i 		23 13 	Steam—Clitheroe (B.)	246
Colne (B.)	10 beds	20 beds	(a) (b) (c) (d)	::::	20	16	55 1 2	:::	::	::	::	2	::::	6	6	1			65 31 	38 29 	5	258	3	4	::	474 76 2	No proper apparatus	487
Crostor	At West Lanca- shire Rural hospita!	Nil	(a) (b) (c) (d)	::	::	2	4	1			::		:::::	::::					1	2 1 	`i ::					12 4 4	Steam-Hospital .	
		t	One de	eath f	rom p	ouerp	eral f	ever,	and a	all pr	eume	onia e	death	s in h	ospita	al an	e inw	ard t	ransi	ers.	1							



	Nature of Hospit	al accommodation.	1							-		Infe	ctiou	B Dis	ases											Disinfection	
					N	ote.	-(a) C	Cases	notifie	ed. (t) Tota	deat	hs. (c) Rem	oval	to h	ospite	al. (d) De	aths	in ho	spite	ıl.			Distincental	
District.	For ordinary infectious diseases.	For Small-pox.		Small-pox.	Membranous Croup.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Relapsing Fever.	Pherneral Fever	Cerebro-Spinal Meningitis.	Poliomyelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephantis Lethargica.	Acute Influenzal Pneumonia,	Fulmonary Tuberculosis.	Other forms of Tuberculosis,	Measles and German Measles.	Whooping Cough.	Diarrhosa, &c. (under 2 years).	Chicken-pox.	Total,	Apparatus and where situated.	No. House or Roor dis infect
Daiton-in-Furnees		1	(a) (b) (c) (d)	::	4 .		32	ï	:: ::	: :	: ::	3	1	2				13 12 	21 15 	4 6 		::			100 37 37 2	No apparatus	. 10
Ulverston	≻Joint at High Carley—30 beds	At Barrow Bore.	(a) (b) (c) (d)	::	4 .	1	9					::	3					· 7	15 8 	`i ::	74		3	::	108 20 14	No apparatus	. 3
Ulverston (R.))	J	(a) (b) (c) (d)	::	5 .	9	27 11	1	:: ::			1	::	7			::	13 6 	24 16 	11 3 	122 2 	`i ::	::::		223 29 18	No apparatus '	4
Darwen (B.)	20 beds for scarlet fever; 8 for enteric fever	Converted farm- house—2 beds	(a) (b) (c) (d)	::	2 .	6			:: ::			::::	2	22	1	::		18 55 	18 22 	9 7	69	4	`i ::		179 91 9	Steam—Hospital	8
Denton	4 beds, Hyde Boro hospital	2 beds, Hyde	(a) (b) (c) (d)	::	2 .	8 1 .	3 .	:	:: ::			::	9	12		4		32 25 1		3	75	:::::::::::::::::::::::::::::::::::::::	·· 2		187 41 7 2	No apparatus	6
Oroylsden	5 beds, Hyde Boro. hospital	1 bed, Hyde	(a) (b) (c) (d)	::	1 :	18	1 :				::	::	8	24				38	33 16 	5 2	116	`i .:	`i ::	::::	269 37 8 1	Steam—Destructor Works	4
Scoles (B.)	20 beds, Salford Boro. hospital	6 beds, Salford	(a) (b) (c) (d)		2 22	1	38 .			1 2	1	1	9	21		1	:	66	87 41 	35 5	813 5 	io 	4		1306 109 69 5	Steam—Sewage Works	1378
ailsworth	At Oldham Borough hospital	Chadderton, &c., Joint Board— 2 beds	(a) (b) (c) (d)		3 .	1 .	7 1	1		1	1	::	* : : :	33				74 11 †1	36 21 	16 4	230	::	2	::::	471 46 13 4	Steam—Oldham C.B.	(room
arnworth	30 beds	At Bury, &c.,	(a) (b) (c) (d)			1 .	37 .						5	5				21	35 30 	27 5	436 10 		8		623 103 43	Steam—Hospital .	101 (room
attle Lever	At Farnworth hos- pital	Joint nospital	(a) (b) (c) (d)		9 4 .							::	2	3		::		1 4	7 4	3 1	90 2 	.:				Steam-Hospital .	3

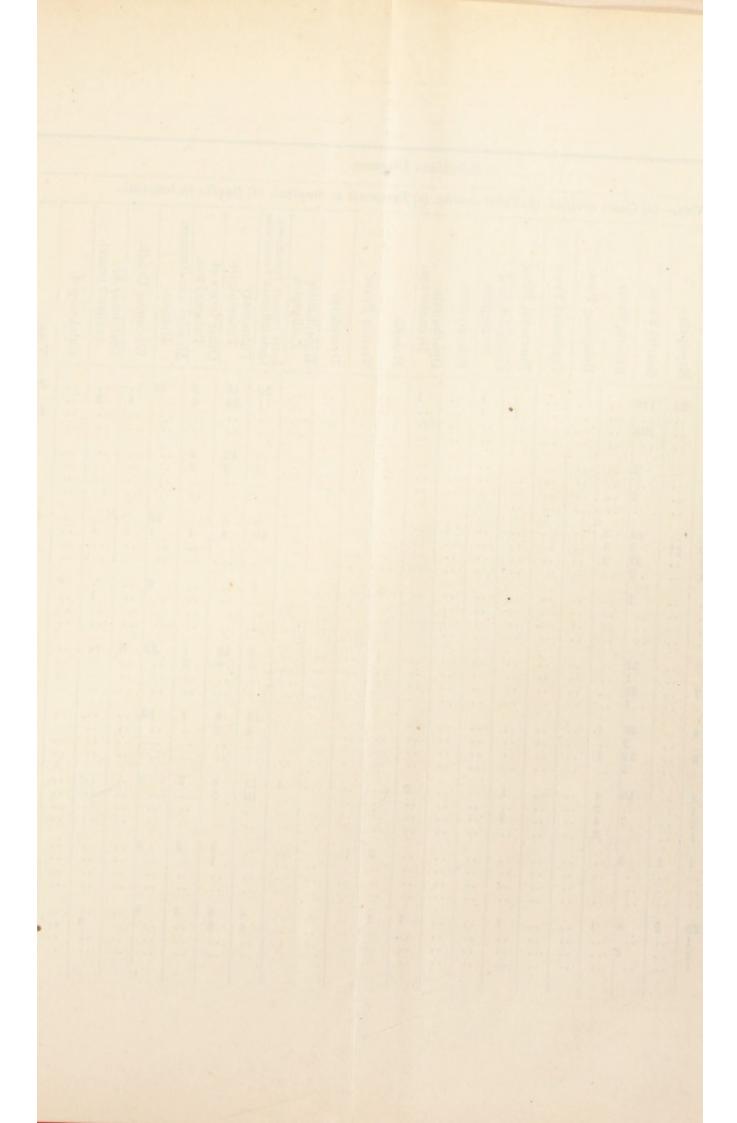
				1	

-			-							_													1000				
	Nature of Hospita	al accommodation.												s Dis												Disinfection	
					Not	te.—(c	a) Casi	es not	tified.	(b) T	'otal	death	s. (c)	Remo	ovals	to h	ospit	al (c	l) Dec	iths i	n hos	pital				Distillection	
District.	For ordinary infectious diseases.	For Small-pox.		Small-pox.	Membranous Croup.	Scarlet Fever	Enteric Fever.	Relapsing Fever.	Continued Fever.	Puerperal Fever.	Cerebro-Spinal Meningitis.	Poliomyelitis.	Ophthaimia Neonatorum.	Malaria	Trench Fever.	Dysentery.	Encephalitis Lethargica.	Acute Primary Pneumonia. Acute Influenzal Pneumonia	Pulmonary Tuberculosis.	Other forms of Tuberculosis,	Measies and German Measies.	Whooping Cough.	Diarrhoea, &c. (under 2 years).	Chicken-pox.	Total.	Apparatus and where situated.	No. of Houses or Rooms dis- infected.
Formby	At Bootle Borough	hospitals	(a) (b) (c) (d)	::	13	2 . i .			::		1:::	1::::				1:::		8	5	i ::	8				34 18 14		27
Grange-over- Sands	At Kendal Borough hospital	At Barrow Boroug	(a) (b) (c) (d)									::		1				3	1 1		5					No proper apparatus	6
Great Crosby	At Liverpool Borou	gh hospitals .	(a) (b) (e) (d)		10 :		37 1 17		1	;i	2		3	5				13 17 	25 9		141 2 1		2		255 34 28 3	Yard	315
Great Harwood	Nil	Nil	(a) (b) (c) (d)			6 1				‡2 			1	16				33 16 	14 7	3 4		2				Steam—Accrington	35
Haslingden (B.)	Agreement with Bu Joint Hospital Be	ary and District	(a) (b) (c) (d)	::	5 .				::		3		6					18 17 	23 9	14	7	`i ::	`i			Steam—Destructor Works	76
Haydock	10 beds at St. Helens Borough hospital	Two wooden pavilions (3 beds)	(a) (b) (c) (d)	::	8 :	: 'i	4		::	1				11				46 12 1	14 15	3 1	44	`i 	6			Steam—St. Helens C.B.	62
Heysham	4 beds	4 beds	(a) (b) (c) (d)	::		i	3		::::	::::	:::		::::	1			1	6 3	5	1 1	18				48 8 11	Steam—Lancaster (B.)	48
Heywood (B.)	At Rochdale hospital (Marland)	Bury and District Joint Board at Birtle	(a) (b) (c) (d)	::	6 2:		2 1 1 1			2		2 8 1	5	n				24 19	42 18	12 5	292	`i	5			Steam—Hospitals	25
Hindley	16 beds; also at Horwich and Abram when beds available	Leigh Joint	(a) (b) (c) (d)	:: 1	3 16 7 2 2 2	6	1 4	::::		1 1 1 1 1	1 1 1 1 1	1	25	9		1		75 29 	30 12	13 6	19		12	98		Steam—Town's Yard	239
Huyton-with- Roby	1 bed at Whiston (more if vacant)	1 bed at Whiston (more if vacant)	(a) (b) (c) (d)		9		8	::::	::::				2					36 4	1 4	3						Steam-Whiston Sanatorium	12
			-			8	Death	not	classif	ied as	polic	omyel	litis b	y Res	gistre	ar-Ge	neral			111			1				

District. For ordinary For Small-per.		Nature of Hospita	al accommodation.				NT-4	1.0	0		20.2	(1)	m.t.*	2000	ctious		100				(3) 5		Y		,			Disinfection.	
Seary Common Co	District.	infectious	For Small-pox.			Croup.									ım.		ever.		-	imonia.	is.	of is.	German	Cough.	&c. years).	Chicken-pox.	Total.	Apparatus and where situated.	No. 6 House or Room dis- infects
Committee Comm	Ince-in-Makerfield	14 beds	12 beds*	(c)				48	2	::	::			::				::	::	25 53	28 17	11 3	110	::	4	::	289	Steam-Hospital	113
Comparison Com	Irlam	hospital (no	2 beds, Salford	(b)	::	ï	::	::			::		1 1 1 1 1			3				18			**	::	3		27	Steam—Town's Yard	15
Lathorn and Burseough Joint at Green Lane—26 beds Joint at Burseough Lathorn and Burseough Lathorn and Burseough Joint at Smithy Joint at Smithy Bridge—16 Joint hospital	Kearsley		At Bury, &c., joint hospital	(c)	::	3		1			::	::		::	::					9	4	1	1	::		::	20	Steam—Farnworth	54
Dormskirk Company Co	Lancaster (B.)	42 beds	11 beds, Littlefell.	(a) (b) (c) (d)	::	5	::	1 21	::	::	::	2		::				::		51	42	15	9	::	1	::	124	Steam—Hospital	97
Ormskirk	Lathom and Burscough		Joint at Burs- cough—12	(c)	::	6		1	ï					::	::					10	2	3		::		::	19	Steam—Hospital	15
Chadderton, & & both cospital Chadderton, & & chadderton, & ch	Ormskirk	J	J beds	(a) (b) (c) (d)	::	63	1	5	::	::	::		::	::	::					11		1	::			::	27 68	Steam—Hospital	80
(b) 3 8	Lees		Chadderton, &c.,	(b)	::				::	::		::		::	::			::		4				::		::	12		14
Council Yard Coun	Litherland	At Bootle Borough	hospitals	(b)		3 27	::	8	i		::			::	::			::		29	23	9	1	::	5	::	79 133	Steam—Council's Depot, School Lane	197
Milnow Bridge=16 joint hospital (a) 3 1 28 2 2 2 2 13 19 2 18 92 Steam (portable) - 134 (b) 1	Littleborough	Teles es a la	At Pure	(b)		2 3		1	1	::	::		::	::	::			20		10000	7	4			::		24 5	Dry-heat—Canal	29
	Milnrow	> Bridge—16	joint hospital	(a) (b) (c) (d)	**	1			2 1 1 1 1			1				2							170			::	18	Steam (portable)— Council Yard	

	Nature of Hospita	l accommodation												etiou												-	Disinfection.	
	Nature of trospica	a accommodation.				Tote	-(a)	Cases	noti	ifled.	(b) T	otalo	leath	s. (c)	Rem	ovals	to hu	ospite	ıl. (d) Dea	iths i	n hos	pital					
District.	For ordinary infectious diseases.	For Small-pox.		Small-pox.	Diphtheria and Membranous Croup.	Erysipelas	Scarlet Fever.	Enteric Fever.	Relapsing Fever.	Continued Fever.	Puerperal Fever.	Cerebro-Spinal Meningitis.	Pollomyelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis. Lethargica.	Acute Primary Pneumonia. Acute Influenzal Pneumoni	Pulmonary. Tuberculosis.	Other forms of Tuberculosis.	Measles and German Measles.	Whooping Cough.	Diarrhea, &c. (under 2 years).	Chicken-pox.	Total.	Apparatus and where situated.	No. of Houses or Rooms dis- infected
Little Crosby	At L'verpool Borou	gh bospitals	(a) (b) (c) (d)	::::	2 .22 .		6 3			::		:::::::::::::::::::::::::::::::::::::::			2							::			::::	10	Dry-heat—Great Crosby	6
Little Hulton	At Bolton Boro. hospital and at Leigh joint hospital	At Leigh joint hospital	(a) (b) (c) (d)	::::	6 1 1	2	48 25	1						3					8 11	8		69		::::		147 27 26	Steam—Hospital	74
fiddleton (B.)	At Rochdale Boro. hospital	At Chadderton &c., joint hospital	(a) (b) (c) (d)		35 2 19 1	9	20	1			1	2 2 1 1	.:	13	10				41 18 ::	42 19		295 9 		4		486 61 27 7	Steam—Centre of Town	48
Morocambe (B.)	25 beds and 2 cots	10 beds and 1 cot	(a) (b) (c) (d)		1	7	15			:::::::::::::::::::::::::::::::::::::::		2		1				6	58 8 	37	6 2	97				230 19 9	Steam—near Electricity Works	47 (and 5 schools
Mossley (B.)	Nil	8 beds, May Hills.	(a) (b) (c) (d)		11	5 1	3		:::::::::::::::::::::::::::::::::::::::		;i 	1	::	2	2				9	13 7	4 1	304				352 22 	Steam—Corporation Yard	35
Nelson (B.)	8 beds (Catlow)	. 32 beds (Catlow)	(a) (b) (c) (d)		15 4	22	65 	3			1		1	3	11		3		65	32 16 		210	4	4	::::	446 82 8		91 (rooma
Newton-in-Maker- field	26 beds	At Liverpool Bore. hospital	(a) (b) (c) (d)		9	17 `i	44 2 41 2				1 1		1	2	15		1	3	40 32 	17 15	13	96			::::	269 62 54 2		118
Norden	Nii	. Converted farm- house—4 beds	(a) (b) (c) (d)		::		7	11111						2	5		1		1 2	14 2		3		::::		33 5	No proper apparatus	6
Orrell	Nil	. Nil*	(a) (b) (c) (d)		1	2	13							2	4				20 8 	6	2	12	`i 	·i		62 17 1		22
Oswaldtwistle	Nil	. 6 beds	(a)		10	9	4	4		::		::		2	7		1	2	48 19	12	10	26 1		·i	::	135	Steam-Gas Works	21

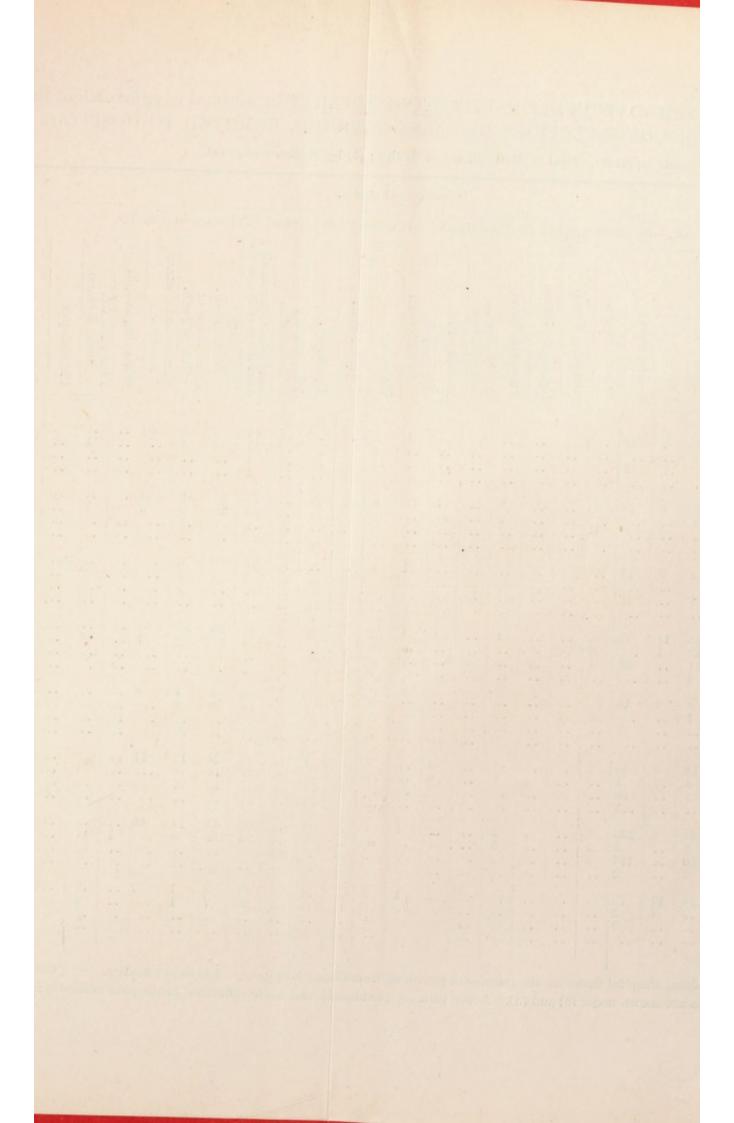
	Nature of Hospit	al accommodation.	-											ection								-					Disinfection	
						Note.	.—(a)	Cas	25 710	tified	. (b)	Total	dear	ths. (c) Re	mova	ls to	hosp	ital.	(d) D	eaths	in ho	spite	al.				
District.	For ordinary infectious diseases.	For Small-pox.		Small-pox.	Diphtheria and Membranous Croup.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Relapsing Fever.	Continued Fever.	Puerperal Fever.	Cerebro-Spinal Meningitis.	Poliomyelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis Lethargica.	Acute Primary Pheumonia. Acute Influenzal Pheumonia.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Measles and German Measles.	Whooping Cough.	Diarrhea, &c. (under 2 years).	Chicken-pox.	Total.	Apparatus and where situated.	No. Hous or Room dis- infects
Prescot	. At Whiston Sanator	ium	(a) (b) (c) (d)		26 5 23 4	2	 3	2 2				:::			1				17	15 9	1	112 2		1::		165 37 28 4	Sanatorium	43
Prestwich .	. At Salford Borough	hospitals	(a) (b) (c) (d)	::	76 8 56 2	3 1	37				1 'i			3	2				12 16 	13 21 		132				286 49 79 2		106
Radcliffe			(a) (b) (c) (d)		39 3 32 2	17 2 2 1	123 6 87 4	3			1	•		4	26				17 19 	35 22 		675		6		959 74 124 7	Steam—Hospital	213
Ramsbottom	At hornitals of the	Bury and District	(a) (b) (c) (d)		18 2 16 2	6	56 1 44 1	3 1 3 1		::::				3	4				64	15 11 		40		2		214 39 63 4	Steam—Destructor Works	79
Tottington	Joint Hospital	Board :— 40 beds	(a) (b) (c) (d)		2	9	5 24 4 2	2		::::	†i 		::::		1		1		18 9	9 8		10	`i	4		59 27 5 2	Steam—Hospital	13
Whitefield			(a) (b) (c) (d)		7 4	3	2					::::	::::	3	7				11 10	5 6		85				131 18 6	Steam—Florence Nightingale Hospital, Bury	24
Bury (R.)			(a) (b) (c) (d)		12 2 1 1	2	12 1 7				1	:::::			2			:::::	13 7	11 5 	7	107		·i		167 16 8 1	Steam—Florence Nightingale Hospital, Bury	100
Rainford	Nil	4 beds	(a) (b) (c) (d)									::		::				::::	8 9		2	2		::::	::::	14 11	No apparatus	Nil
Rawtenstall (B.)	Arrangement made with Bury and District Joint Hospital Board	22 beds (The Ridge)		::::	5 3 2 1		11		::	::	;i ::	1	::	4	8			2	34	24 28 	7 3	133		`i		236 55 3 2	Steam—Small-pox hospital	44
Rishton	Nil, "but can send to Blackburn"	At Oswaldtwistle by agreement from 1st January, 1918	(b) (c)			::				::	::	::		1					16 8	7 3	1			2		31 14 	No apparatus, but can send to Blackburn C.B.	47
kelmersdale	30 beds; and at West Lancashire hospital (if re- quired)	Nil	(b) (c)		1		12		::	::	2 2		::	1	8	:			17 12 	11 3 	2 2					56 26 7	Steam—West Lan- cashire Hospital	8



	Nature of Hospita	al accommodation.											Infe	etion	ıs Di	sease	s.										Disinfection	
			-		_	-	—(a)	Case	s not	ified.	(b) T	Cotal .	death	is. (c)	Rem	ioval	s to h	hospi	tal. (d) De	aths :	in ho	spital	l.			Distriction	
District.	For ordinary infectious diseases.	For Small-pox,		Small-pox.	Diphtheria and Membranous Croup.	Erysipelas,	Scarlet Fever,	Enteric Fever.	Relapsing Fever.	Continued Fever.	Puerperal Fever.	Cerebro-Spinal Meningitis.	Poliomyelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis Lethargica.	Acute Primary Pneumonia.	Pulmonary Tuberculosis.	Other forms of Tubercufosis.	Measles and German Measles.	Whooping Cough.	Diarrhoea, &c. (under 2 years).	Chicken-pox.	Total.	Apparatus and where situated.	No. or House or Rooms dis- infected
Standish with- Langtree	Nil	Cottage—6 beds*	(a) (b) (c) (d)		4	3	86 2	2 :1		:::		::		:::::	3			1	23 16 1	8 3	111			· d		146 26 2 1	No apparatus	69
Stretford	At Salford Borough (18 beds)	hospitals (6 beds)	(a) (b) (c) (d)		15 2 3	12 2 1	80	5 1 3			2 2	3 2 2 2 2		3	9			1	30	83	17	204			215	679 110 35 2	Steam—Sanitary Depôt	255
Swinton and Pendlebury	At Salford Boro. hospital (14 beds)	Joint at Linny- shaw Moss— 20 beds	(a) (b) (c) (d)		22 1 4	24	324 9 122 6	3 1 2 1			1		::::	9	35		1		104 39	16 24	11 8	762	3	3		1342 93 128	Steam—Destructor Works	339
Worsley	At Salford Boro. hospital (6 beds)		(a) (b) (c) (d)		7	7	78	5						1					16 24	4 7	11 1	187		···		316 34 6	Steam—Salford C.B.	86
Trawden	At Colne Borough h	ospitals	(a) (b) (c) (d)		2 1		4								1				8 3	6 2	ï	::				7	Steam—Nelson (B.)	9
Furton	At Bury, &c., joint hospital	2 beds (Bury, &c., joint hospital)	(a) (b) (c) (d)		13 3 2	5	19		::::		: ::::				6				5	7 5	7 3			·· i		57 17 4	Steam—Hospital	42
Upholland	Nil. Occasionally sent to Wigan C.B.	Tent—8 beds*	(a) (b) (c) (d)	::::	6 1		21	3	::::										8 3	2 1	1	4		3		8	Steam—Billinge Workhouse	20
Urmston	At Salford Borough (5 beds)	hospitals (2 beds)	(a) (b) (c) (d)		2	4 1	41 1 15	2 1 2 1			1 1		::		5		: :::		11 10 3 3	7 7	1	9				83 20 21	Steam—Salford C.B.	57
Walton-le-Dale	20 beds (School Lane)	8 beds (Bradkirk)	1000		21 4 20 2	7 1	20 1 20 1	3					1		1			1	9 8	17 10	8 4	6		3		94 31 43	Steam—Hospital	73
Waterloo-with- Seaforth	At Liverpool Boroug	h hospitals	(a) (b) (c)		71 8	20	164 5 92				1	8 3 5		3	7				31 44 2 †6	39 33	16 4	275 7 5	·i	8 7			Steam—Council's Yard	288

1.										
									V	

District. Por ordinary infections For Small port Por Small port		Nature of Hospital accommodation.																		Disinfection									
Por Small-por.			Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																Distillection										
Without Widnes	District.	infectious	For Small-pox,		Small-pox.	Diphtheria and Membranous Croup.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Relapsing Fever.	Continued Fever.	Puerperal Fever.	Cerebro-Spinal Meningitis.	Poliomyelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis Lethargica.	Acute Primary Pneumonia.	Pulmonary Tuberculosis.	Other forms of Tuberculosis,	Measles and German Measles.	Whooping Cough.	Diarrhoa, &c.	Chicken-pox.	Total.		No. of Houses or Rooms dis- infected
Withness Withness	Whitworth	Nil	Cottage—12 beds	(b) (c)		1	1		1		::			1000							21	7 3 :.	1		1	1	24		35
Warrington (R.) Warrington (R.) At Liverpool Borough hospitals C. At Liverpool Borough hospitals	Widnes (B.)		8 beds (Barrow's Green)	(b)		32		31	1			3 2			6	15	1			112 54 51	55	21		33	7		393 1/2 102		. 105
Irwell (R.) (5 beds) (2 beds) (6) (7			ton (Blackburn)	(b)								1::	1000							5	2		1				18 2		3
Blackburn (R.) Nil.—Cases can be Nil.—Cases can (a) rowed to labels burn (C.B.), Chorley (joint), & Withhell fever hospitals C.B. C.B. C.B.	Irwell (R.)	(5 beds)	(2 beds)	(d)				22	2	**					1						7	2	37				113 13 24	Salford	50
Lunesdale (R.) At Lancaster Borough hospitals (a) 2 3 3 3 2		burn (C.B.), Chorley (joint), & Withnell fever hospitals	be removed to Finnington, Black- burn (C.B.)	(b)							::		.:		::						7				1		30 20	Steam—Blackburn C.B.	20
Sefton (R.) At Liverpool Borough hospitals Ca 4 3 5 5 5 5 5 7 24 4 5 5 5 7 24 4 5 5 5 5 5 5 5 7 24 4 5 5 5 5 5 5 5 5		At Lancaster Borou		(b)	::	2	::			::	::		::	::	::						9	2	66 2		::		28	No apparatus	17
Sefton (R.) At Liverpool Borough hospitals (a) 4 3 5	Lunesdale (R.)	Hospital at Farleton	(13 beds)	(b) (c)		1					::	::								1 2	4	`i	4						3
Agrangement		At Liverpool Boroug	h hospitals	(b) (c)	**	2		1		::			**	::								1 1	9		`i		8	Steam—Liverpool C.B.	12
West Lancashire (R.) 26 beds—(Aughton) Tent—8 beds. (a) 50 7 24 4 3 14 1 1 49 17 3 15 188 Steam—Hospital 8		and Newton-in-		(b) (c)		2		13					::	::						19	11	7 4				::	34 15	Steam-Hospital	30
with Liverpool (c) 43 17 1	West Lancashire (R.)	26 beds—(Aughton)	Arrangement with Liverpool Corporation for additional	(b)		4 43 .	1 .	17	2	::		::	:	‡1	::					20	13	1	::		1	::	188 43 61	Steam—Hospital	94



Nature of Hospital accommodation.				Infectious Diseases.																Disinfection.								
				Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																								
District.	For ordinary infectious diseases.	For Small-pox		Small-pox.	Diphtheria and Membranous Croup.	Erysipelas.		Enteric Fever.	Relapsing Fever.	Continued Fever.	Puerperal Fever.	Gerebro-Spinal Meningitis.	Poliomyelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis. Lethargica.	Acute Primary Preumonia. Acute Influenzal Preumonia	Pulmonary Tuberculosis.	her forms of Tuberculosis.	Measles and German Measles.	Whooping Cough.	Diarrhosa, &c. (under 2 years).	Chicken-pox.	Total.	Apparatus and where situated.	No. of Houses or Rooms dis- infected.
Whistor (R.)	34 beds	20 beds	(a (b) (c) (d))	38 1 30 1	7 1	33	::	::	::	3 2			5	::		E142	1	59 40 	19 24	13 6	74	2	5		404 83 63 2	Steam—Sanatorium	118
Wigan (R.)	Nil	Cottage—4 beds	1	} ::	3	3	40	1 1 1 1		::	1			::::			10000		9 13 	12 3 		18		3		91 22 2 1	No apparatus	33
	County, 1919 :— Total cases notific	ed	(8) 4	1789	836	1080	152		2	78	38	20	337	770	3	190	26	2915	2175	868	13021	6	8	456	27774		
	" deaths		(b)	222	24	72	35			57	18	5						1940	1339	358	130	86	276		4572	Total houses or rooms	10870
	" removals to	o hospital	(0) 4	904	14	1918	75			8	14	2	6					68			30		1	2	3046		
	" deaths in h	ospital	(d)	79	3	46	13			4	8	1			-			40			6		1		201		

| 141 cases of dysentery and 37 of pneumonia occurred in Reinhill Asylum Annexe.

Publicity.—On two occasions the whole of the County area has been placarded giving particulars of the Treatment Centres, and every medical practitioner practising in the geographical County has been supplied with a print of the County scheme, and later with a revised print, giving up-to-date information of the facilities available.

Legal Proceedings.—Legal proceedings have been instituted for offences under the Venereal Diseases Act, 1917, against persons not qualified as medical practitioners for treating persons suffering from venereal diseases, or prescribing remedies therefor. At Ashton-under-Lyne, in April, 1919, three persons were each fined £30 or imprisonment for 123 days' hard labour; and at Leigh, in April, 1920, a medical herbalist was fined £10.

Notification of Infectious Diseases.—Table "F," here inserted, shows the number of cases notified in each urban and rural district in the Administrative County during the year 1919, under the Infectious Disease (Notification) Act, 1889, the Public Health (Tuberculosis) Regulations, and various other Regulations or Orders.

These notifications, according to the information supplied by local Medical Officers of Health in their annual reports, amounted in the aggregate to 27,774, viz.:—

Small-pox	4	Measles and German	
Diphtheria and Mem-		Measles 13,02	21
branous Croup	1,789	Whooping Cough	6
Erysipelas	836	Infantile Diarrhœa	8
Scarlet Fever	4,080	Chicken-pox 45	6
Enteric Fever	152	*Malaria 77	0
Continued Fever	2	*Dysentery 19	0
Puerperal Fever	78	*Trench Fever	3
Cerebro-Spinal Menin-		*Acute Primary Pneu-	
gitis	38	monia and Acute In-	
Acute Poliomyelitis	20	fluenzal Pneumonia. 2,91	5
Ophthalmia Neonatorun	a 337	*Acute Encephalitis	
Pulmonary Tuber-		Lethargica and	
culosis	2,175	Acute Polio-En-	
Other forms of Tuber-		cephalitis 2	6
culosis	868	rest to redemme oil (b)	

^{*} Notifiable for first time in 1919.

As compared with the year 1918, there was a reduction in the "total" notifications of 2,759, but the decrease is really much greater, as the total for 1919 included 3,904 cases of diseases which were not notifiable in the preceding year. Measles showed a diminution of 8,632 cases, pulmonary tuberculosis 419, enteric fever 167, &c., whilst increases were recorded in scarlet fever 2,119, diphtheria 197, chicken-pox 132, ophthalmia neonatorum 105, erysipelas 104, &c.

Chicken-pox was notifiable for limited periods in Bacup (B.), Crompton, Hindley, Poulton-le-Fylde, Royton, and Stretford. Whooping cough was notifiable at Poulton-le-Fylde and St. Annes-on-the-Sea, and infantile diarrhœa at Litherland, Little Crosby, and Waterloo-with-Seaforth.

Table "G", here inserted, compares the incidence of certain notifiable diseases in this County with other Administrative Counties, with the aggregate of English Administrative Counties, and with England and Wales.

The Public Health (Acute Encephalitis Lethargica and Acute Polio-encephalitis) Regulations, 1918, made the diseases named compulsorily notifiable for a period of one year from the 1st January, 1919. By Regulations, dated 31st December, 1919, these provisions are continued in force until the Minister of Health by Order otherwise directs.

From the 1st March, 1919, by the Public Health (Pneumonia, &c.) Regulations, 1919, malaria, dysentery, trench fever, acute primary pneumonia, and acute influenzal pneumonia became compulsorily notifiable.

By the Public Health (Measles and German Measles) Regulations, 1915, Rescission Order, 1919, measles and German measles ceased to be notifiable from the 31st December, 1919.

Isolation Hospitals.—Table "F," inserted opposite page lxi., shows the nature of the hospital accommodation provided in, or available for, each County sanitary district, and gives for each district—

- (a) the number of cases of infectious disease notified.
- (b) the total deaths from such diseases,
- (c) the number of cases removed to hospital, and
- (d) the number of deaths in hospital.

TABLE G.—STATISTICS OF INFECTIOUS DISEASES NOTIFIED IN ADMINISTRATIVE COUNTIES FOR THE YEAR 1919.

								Cases N	OTIFIED.						
	Estimated Civil Population,	Scarlet	Fever.	Diph	theria.	Enteri	c Fever.	Puerper	ral Fever.	Erysi	pelas.	ox.	ever.		hmia rum.
	1919.	Cases.	*Rate.	Cases.	*Rate.	Cases.	*Rate.	Cases.	*Rate.	Cases.	*Rate.	Small-pox.	Cerebro- Spinal Fever.	Polio- myelitis.	Ophthalmia Neonatorum.
England and Wales	35,993,000	83,298	2.29	53,918	1.50	3,447	0.10	2,016	0.06	15,763	0.44	294	848	553	8,648
Aggregate of English Administrative Counties (excluding London)	17,499,372	33,360	1-91	24,219	1.38	1,766	0.10	719	0.04	6,511	0-37	144	335	274	2,604
Administrative Counties :—															
Lancashire	1,662,716	4,066	2.45	1,804	1.08	156	0.09	70	0.04	834	0.50	2	31	18	337
Cheshire	600,918	1,383	2.30	642	1.07	39	0.06	27	0.04	191	0.32	10	6	3	94
Cumberland	206,006	144	0.70	399	1.94	13	0.06	10	0.05	100	0-49		1	1	23
Derbyshire	548,423	875	1.60	916	1.67	121	0.22	22	0.04	181	0.33		12	5	92
Durham	890,733	4,071	4.57	1,327	1.49	120	0.13	27	0.03	387	0.43	15	12	4	
Kent	982,445	1,851	1.88	1,615	1.64	87	0.09	38	0-04	343	0.35	23	28		246
Middlesex	1,229,018	3,820	3-11	2,097	1.71	74	0-06	68	0.06	539	0.44	8	30	10	146
Northumberland	378,128	858	2.27	596	1.58	109	0.29	13	0.03	216	0.57			27	170
Nottinghamshire	366,331	725	1.98	374	1.02	26	0.07	21	0.06	158	0.43	***	. 6	4	66
Staffordshire	674,671	742	1.10	781	1.16	55	0.08	24	0.04	224	0.33		10	1	66
Surrey	687,470	1,219	1.77	1,064	1.55	86	0.13	35	0.05	2000		1	15	11	121
Warwickshire	324,557	311	0.96	305	0.94	15	0.05	12		179	0.26	1	19	14	60
Yorkshire (West Riding)	1,436,274	2,678	1.86	2.085	1.45	214	0.15		0.04	164	0.51		9	6	52
•/			1	2,000	1 40	214	0.19	61	0.04	668	0.47	13	20	10	230

MEM.—The above totals and rates are taken from a Report of the Ministry of Health; the totals for Lancashire do not quite agree with the totals of notifications as extracted from local reports.

notifications as extracted from local reports.

* Calculated per 1,000 of the Estimated Civilian Population.

* *

The table below gives the percentage of removals to hospital of cases of small-pox, scarlet fever, diphtheria, and enteric fever, and contrasts the mortality from these diseases of cases treated at home with those isolated in hospital:—

	Total cases 4 4080 1789 152	Hospit	tal Trea	tment.	Home me		Case mortality per cent.		
Ta and training		Cases removed to hospital.	Percentage of removals.	Deaths in hospital.	Cases treated at home.	Deaths at home.	In hospital.	At home.	
Small-pox	4	4	100.0						
Scarlet Fever.	4080	1918	47.0	46	2162	26	2.39	1.20	
Diphtheria	1789	904	50.5	79	885	143	8.73	16.15	
Enteric Fever.	152	75	49.3	13	77	22	17:33	28.57	

The percentages of removals to hospital in the preceding year were: scarlet fever 50.5 of the total notifications, diphtheria 46.3 per cent., and enteric fever 60.1 per cent.

Reference to Table "F" will show as regards many areas the inadequacy, or absence, of hospital accommodation.

Disinfection.—The following statement shows the position of the County districts in regard to the provision of disinfecting apparatus:—

Districts provided with steam apparatus	27
", using steam apparatus at hospitals …	44
" using steam apparatus belonging to other	
districts (mainly County or Municipal	
Boroughs)	25
" provided with dry-heat apparatus	1
" using dry-heat apparatus belonging to	
another district	1
" without proper appliances	24
	122

Several populous areas, as will be seen on reference to Table "F," are still unprovided with efficient means of disinfection.

Houses or rooms fumigated in 1919, after the occurrence of infectious disease, numbered 10,870; disinfection was also carried out at 35 schools.

Housing of the Working Classes.—The tabular statement below gives brief details, as supplied by the local Medical Officers of Health, of the action taken by the urban and rural District Councils in regard to the inspection of dwelling-houses during the year 1919, and of the action taken to remedy the defects discovered:—

	Dwe	lling-ho	uses.	No. of		Dv	velling-hou	ses.
DISTRICT.	Total number In- spected	No. of Special Inspec- tions under Sec. 17 of 1909 Act.	No. con- sidered unfit for human habita- tion.	Represen- tations to Authority with a view to the making of Closing Orders.	No. of Closing Orders made.	No. in which defects remedied without Closing Orders-	No. made habitable after the making of Closing Orders.	No. de- molished
Urban.							F T I I	
Abram	17					14		
Accrington (B.)								
Adlington								
Ashton-in-Makerfield. Ashton-under-Lyne	207	207	8	4	3	163	2	4
(B.)	1000		200			.:.		
Aspull	1567	28	28			10		
Atherton	59		**			59		
Audenshaw	50		**	::		2	410	
Bacup (B.)	75	52	52	52		23	†10	
Barrowford	61		00			21		
Billinge	42	38	22			4 7		
Blackrod	12 98		12			22		
Prierfield								
Chadderton	250		2	2	2			
Chorley (B.)	75	75	3	3	1 1 1 1 1			
Church	19					7		
Clayton-le-Moors	1000				**	'	14	
Clitheroe (B.)	50	6	6	6	6	16		
Colne (B.)	152	1000	7000		200	30	**	
Crompton	12	2				5		
Croston	5	3	i					
Dalton-in-Furness	249	133	138			23	23	
Darwen (B.)	308	162	58	34	28	6	2	
Denton	80	30				1		
Droylsden	28	23	9	9	9	6		- ::
Eccles (B.)	96							
Failsworth						- 235		
Farnworth	52					13		
Fleetwood				DITO THE				
Formby	1	1	1	i		4		
Fulwood								
Golborne	19	19	2					
			1000	7.000	1000000			

^{*} Total as given by local Medical Officer of Health.

[†] Closed for habitation, and converted into garage and stable. † Converted into works.

-								
	Dwo	lling-ho	uses.	No. of Represen-		Dv	welling-hous	908.
DISTRICT.	Total number In- spected	No of Special Inspec- tions under Sec 17 of 1909 Act.	No. con- sidered unfit for human habita- tion.	tations to Authority with a view to the making of Closing Orders.	No. of Closing Orders made.	No. in which defects remedied without Closing Orders	No. made habitable after the making of Closing Orders.	No. de- molished
Great Crosby								
Great Harwood	45	45	45					
Haslingden (B.)	::.						+8	12
Haydock	191					95		
Heysham	42	15	15	15	15	4		30
Hindley	8	8	8	8	8			3
Horwich	13	13				13		
Hurst	354 1037	65	9	9		9	9	**
Ince-in-Makerfield	1007							::
Irlam	1	1	1	1				1
Kearsley	19	14		Di 17				
Kirkham Lancaster (B.)	26	14				8		
Lathom & Burscough.	1226	32				25		
Lees	86		1	1	1	20	‡6	
Leigh (B.)								
Leyland	23	3	3	3		2		
Littleborough	119			::	::	::		
Little Crosby	8							
Little Hulton	34	.:0						
Little Lever	10	10	3	3				
Longridge		::			::			**
Middleton (B.)	18		1					
Milnrow	14					9		14
Morecambe (B.)	206	76	32	1	.;	5	‡3	
Mossley (B.) Nelson (B.)	3149	• • •	23	1	1			••
Newton-in-Makerfield	17	17			::	15		
Norden								
Ormskirk	525	525	21			110		
Orrell	194	92	28			12 22		
Padiham	104	104	3		::			**
Poulton-le-Fylde								
Preesall	3	3	1	.::		1		
Prescot	175	175	175	175	2			
Radcliffe	2	2	2	2	2			
Rainford								7
Ramsbottom								
Rawtenstall (B.)	5366		370					
Rishton	300	280	107	3	3	609		
St. Annes-on-the-Sea	811							
Skelmersdale	168	168	S	B85. 8		29	***	
Standish-with-								
Langtree							(1191)	
Swinton and Pendle-								
bury	335							
Thornton				0000	1			- 41-
† Con	verted	into w	orks.	; Cle	osed vo	luntarily		
				- 1,000				

	Dwe	elling-ho	uses-	No. of Represen-	BLD I ST	Dv	welling-hou	8E 8.
DISTRICT.	Total number In- spected	Inspec-	No. con- sidered unfit for human habita- tion.	tations to Authority with a view to the making of Closing Orders.	No. of Closing Orders made.	No. in which defects remedied without Closing Orders.	No. made habitable after the making of Closing Orders.	No. de- molished
Tottington	1		1					
Frawden	63	. 17		11		12		244
Curton							1	
Cyldesley-with-			-			10		Resident Land
Shakerley						40		
Ulverston	930							
Jrmston	22						***	
Waltou-le-Dale	641	641	55	5	. 1		::	5
Wardle						33	T	
Waterloo-with-							altred !	Ser Pos
Seaforth				1				
Vesthoughton	62	. 40	40					
Vhitefield	90	40	12	12	12			
Vhitworth	::-			.,				
Widnes (B.)	263	200	200			39		
Withnell	30	::0				20		
Worsley	116	116				80		
otal Urban Districts.	20465	3483	1494	351	93	1493	62	69
RURAL.	-10/0						TA HILLIAN	
Barton-upon-Irwell	26		1	1				
Blackburn				0 . 0				
Burnley	5	- 5	. 3	3	. 3	. 2	3	
ury	40	40	23			. 3		
horley	50	. 50	20		1		1	
litheroe (Lancashire								worth!
portion)	411	100	8	8		8		3
ylde	130	130						
arstang	10	10						4
ancaster	98	. 8	8	2	2	6		3
imehurst	89	89	89	10.19				
unesdale	84		30	30	3			::
reston	6	6	- 10	6	6			
efton	640	- 70	25	8				
lverston	367					29	0	
Varrington								
Vest Lancashire	13	:	1	1	1			
Vhiston	129					13		
Vigan	14	2	2				****	1
otal Rural Districts.	2112	410	220	51	16	61	3	11
otal Administrative County (1919)	22577	3893	1714	402	109	1554	65	80
Do. (1918)	4486	466	188	138	97	623	24	21
	11445	601	233	178	108	941	45	56
Do. (1916)	-	1300	329	244	168	2157	85	61
110000000000000000000000000000000000000		-	-					
Do. (1915)	27090	4121	890	573	486	3644	296	170

During the war period house inspection was reduced to a minimum, but in the year under report much more attention was given to this important item of sanitary administration. The number of houses inspected increased from 4,436 in 1918 to 22,577, and the number "specially inspected under Section 17 of the 1909 Act" from 466 to 3,893. Of the latter, 1,714 were considered unfit for human habitation, but owing, no doubt, to the shortage of housing accommodation, only 109 Closing Orders were made; in 1,554 instances, it is stated, the defective conditions were remedied without the making of Closing Orders, and 65 were either made habitable after an Order to close had been issued, or were closed as dwellings. Insanitary houses demolished numbered 80.

Houses Erected in 1919.—Enquiries as to the number of houses erected in 1919 elicited the following replies:—By Local Authorities nil, by private enterprise 145 in 32 districts. In 1918 these totals were respectively 13 and 29, in 1917 29 and 279, and in 1916 none and 649.

Housing, Town Planning, &c., Act, 1919.—On the 31st July, 1919, this Act was passed.

Local Schemes.—Under Section 1 it is the duty of every Local Authority, within the meaning of Part III. of the principal Act, to consider the needs of their area with regard to the provision of houses for the working classes, and within three months after the passing of this Act, and thereafter as often as occasion arises, prepare and submit to the *Local Government Board a scheme specifying—

- (a) the approximate number and nature of the houses to be provided by the Local Authority;
- (b) the approximate quantity of land to be acquired and the localities in which such land is to be acquired;
- (c) the average number of houses per acre;

^{*} Now the Ministry of Health.

(d) the time within which the scheme (or any part thereof) is to be carried into effect.

Power of County Councils and Local Government Board to act in cases where a Local Authority is in default—Section 3 (1) authorises the Local Government Board, when they are satisfied that a Local Authority have failed to fulfil their obligations, either as to the proparation or the carrying into effect of a scheme, or that for any other reason it is desirable that any such obligation should be performed by the County Council instead of by the Local Authority, to transfer to the Council of the County in which the district of the Local Authority is comprised the obligation to prepare and carry out a scheme, or to carry out, either wholly or in part, the provisions of a scheme prepared by the Local Authority.

Where the Board make an Order under this Section, the Order may, for the purpose of enabling the County Council to give effect to the Order, apply any of the provisions of the Housing Acts, or Section 63 of the Local Government Act, 1894, as may be necessary. Provided that the Local Authority shall be entitled to appeal to the Board if, in their own opinion, the amount of the expense which the County Council require them to defray is excessive or unreasonable, or against any refusal by the County Council to make an Order under the said Section 63.

Section 4 provides where a Local Authority, or in cases where the powers of a Local Authority have been transferred to a County Council, such Council have, in the opinion of the Local Government Board, failed to fulfil their obligations, the Board may themselves prepare and carry out a scheme, or take whatever steps may be necessary to carry out any scheme prepared by the Local Authority or Council.

Section 5 deals with a Local Authority's powers, under Part I. (unhealthy areas) and Part II. (unhealthy dwellings) of the principal Act, and the Local Government Board may require a Local Authority to make a scheme for the improvement of an unhealthy area and to do all things necessary for carrying into execution a scheme so made, and if the Local Authority fail within the time specified, the County Council may be authorised to prepare a scheme and carry same into effect, or the Board themselves may do so.

Inspection by County Medical Officer of Health.— Under Section 6, where a representation is made to the Local Government Board that the Local Authority of any County district have failed to exercise their powers under Parts I. or II. of the principal Act, the Board may direct the County Council to instruct the County Medical Officer of Health to inspect such district, and to make a report to the Board as to the exercise of the powers aforesaid by the Local Authority.

The Housing Acts, 1890-1919.—The provision of houses by Local Authorities.—In September, 1919, the Ministry of Health forwarded to all Local Authorities a Form of Survey of Housing Needs which the Clerk to the Council was required to fill in, giving information under the following headings:—

Prevailing conditions affecting shortage of houses; Estimate of housing needs;

Areas which are being, or may have to be, dealt with as unhealthy under Part I. or Part II. of the Housing Act of 1890;

Insanitary houses (other than houses in unhealthy areas, of which particulars are given under the last heading);

Scheme of the Local Authority for the provision of new houses under Section 1 of the Housing, Town Planning, &c., Act, 1919.

It was requested that these Forms should be completed and returned to the Regional Housing Commissioner by 31st October, 1919.

On 30th August, 1919, a circular was addressed to County Councils by the Ministry of Health, asking County Medical Officers of Health to perform certain duties in connection with the Housing Schemes submitted to the Ministry by Local Authorities. In this connection the District Housing Commissioner referred to the County Medical Officer of Health the Forms of Survey submitted by the Local Authorities in the Administrative County, requesting his opinion as to the adequacy or otherwise of these schemes. In due course the schemes submitted were reported upon, the investigations being carried out by the Medical and Sanitary Staff of the County Public Health Department.

The schemes were classified under four headings, viz. :-

- (1) Reasonably adequate.
- (2) Accept as minimum.
- (3) Inadequate.
- (4) Excessive.

The classification of the 118 original schemes investigated up to June 30th, 1920, shewing the number of houses proposed, is set forth in the following summary:—

No. of Schemes.	C.M.O.H.'s. Classification.		Estimated Net No. of houses required.	No. of House proposed by Local Authorities.
60*	Adequate		22,672	21,672
10	Accept as minimum		2,426	2,386
47†	Inadequate		8,215	5,091
1	Excessive		415	415
118		-	33,728	29,564

^{*} Includes 4 "nil" returns. † Includes 9 "nil" returns.

Table H, here inserted, shows the estimated requirements of each urban and rural authority in the Administrative County, together with the number of houses each Authority proposes to build (if any), and showing the stage reached in regard to each scheme on June 30th, 1920. Some of the schemes have been amended since the original proposals were submitted, and the totals are, therefore, not comparable with those contained in the summary above.

TABLE H.

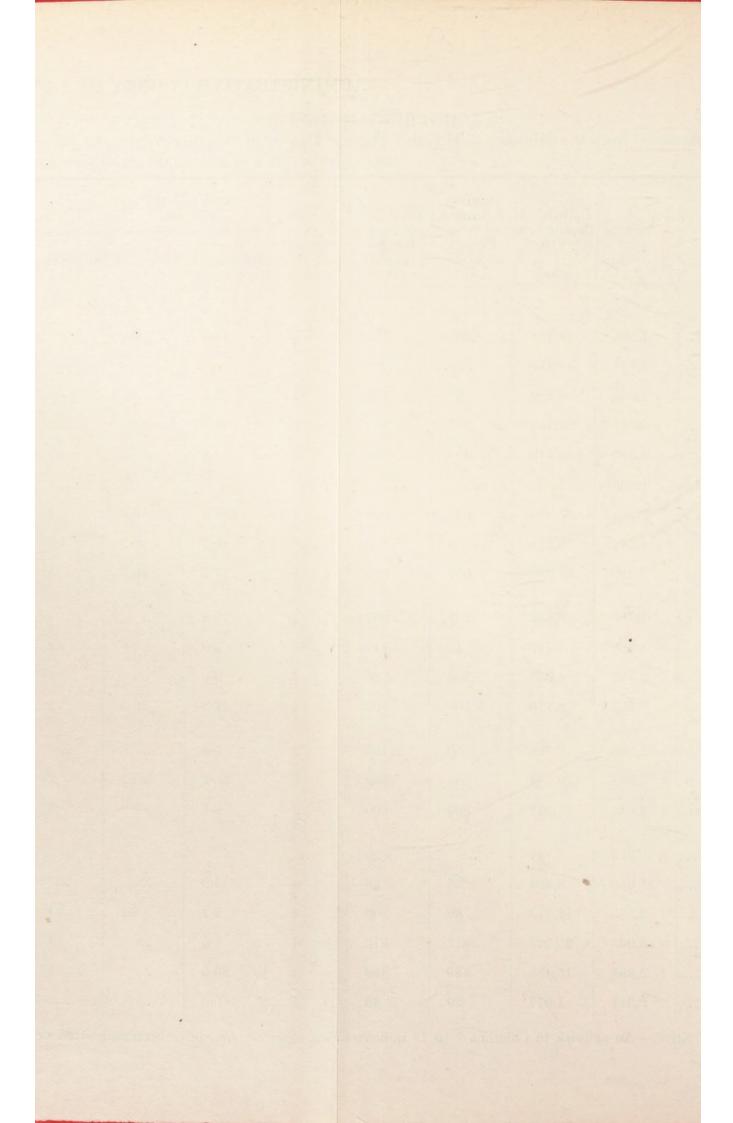
ADMINISTRATIVE COUNTY OF LANCASTER.

HOUSING NEEDS OF EACH URBAN AND RURAL DISTRICT
as extracted from the Ministry of Health's Form of Survey of Housing Needs, and shewing the position of each scheme on the 26th, June, 1920.

(The figures in Cols. 6-16 are from the official government publication).

DISTRICT,	Area.	Estimated Population,	Original Estimate	Total No.	Number	Area o		No. of I	Lay-outs.	No, of H	ouses in- Iouse Plans		Houses in Tenders.	No. of 1	Houses.
District.	2	1919.	of New Houses required.	of New Houses proposed.	of Schemes.	Submitted.	Approved.	Submitted.	Approved.	Submitted.	Approved.	Submitted.	Approved.	On which work has commenced 15	Completed.
URBAN-							1	4							
Abram	1,984	6,498	200	250	3	14.8	14-8	3							
Accrington (B.)	3,427	45,479	225												
Adlington	1,062	4,390	50	100	1	5-5	5-5	-1	1	30	30	30			
Ashton-in-Makerfield	6,251	22,150	330	330	2	34-5	34.5	2	1	80	80	80	80	28	
Ashton-under-Lyne (B.)	1,345	45,519	360	360	1	30-3	30-3	1	1	86	. 86				
Aspull	1,906	7,579													
Atherton	2,265	20,390	635	600	2	136-0	19-0	1	1	182	182	96	96	38	12
Audenshaw	1,241	8,178	50	50	2	10-7	10-7	2	1	50	50				
Bacup (B.)	6,120	21,090	600	600	5 3	71.2	40.2	. 5	3	64	64	18	18	28	
Barrowford	1,385	5,652	207	207	1	16-8									
Billinge	4,596	4,749	75	117	1	5-0	5-0	1	1	20	20				
Blackrod	2,392	4,057	100	25	1	3.0		1	1	16	16				
Brierfield	807	8,779	100	100	4 1	12.3	10-5	1	1						
Carnforth	1,505	3,326	50	100	1	5.0									
Chadderton	3,082	29,742	561	500	2	36-2	36-2	2	1	96	96	96	96	26	***
Chorley (B.)	3,614	32,912	600	600	2	8-7	5.2	3	1	53	53				
Church	529	6,744		20											***
Clayton-le-Moors	1,059	8,804	38	38	1	3.0									
Clitheroe (B.)	2,385	12,473	80	100	1	8-1	8-1	1	1	100	100				
Colne (B.)	5,063	26,924	812	812	1	4.0		1	1						
Crompton	2,865	15,436	489	489	1	20.0		1	1						
Croston	2,347	1,977	20	48	1	5.0									

Note.—An asterisk in Columns 7 to 12 indicates that schemes, &c., have been submitted or approved, but the exact figures cannot be stated.



Original Estimate of New Houses required. Area of Sites. (Acres). No. of Lay-outs. No. of Houses in-cluded in House Plans No. of Houses included in Tenders. No. of Houses. Total No. of New Houses proposed. 5 Estimated Population, 1919. Number DISTRICT On which work has Schemes Submitted. Approved. Submitted. Approved. Submitted. Approved. Submitted. Approved. Submitted. Approved. 11 12 13 14 Work nas 3 pleted. URBAN-Contd. Dalton-in-Furness 13,465 379 379 3 30.0 7.8 2 Darwen (B.) 5,959 39.252 300 400 22.6 Denton 2.594 17,861 500 500 2 42.1 11-1 1 Drovlsden 1,009 13,669 561 218 25.9 25.9 1 240 Eccles (B.) 2,057 44,178 976 992 2 90.8 2 2 90.8 1,417 1,417 657 657 1,072 17.452 150 300 e. Farnworth 1 504 28,977 250 250 1 15-1 15-1 1 1 152 152 152 152 Fleetwood 2,510 18,905 1,135 1,022 1 48.8 48-8 531 Formby 5,613 5,746 210 200 1 17.5 2,116 4,715 Golborne 1,679 7,250 141 145 1 13.4 13-4 1 1 145 145 15 Grange-over-Sands 1,862 1,890 20 20 1 5.2 5.2 1 Great Crosby 1,867 13,566 ... Great Harwood 2,868 13,777 35 160 6-8 Haslingden (B.) 8,196 18,126 50 90 6 10.8 1.4 2 2 22 18 Havdock 2,411 10,085 184 300 2 14.0 10-0 2 1 26 26 26 26 26 Heysham 1,835 3,804 40 Heywood (B.) 3,658 27.275 329 329 9-4 9-4 1 1 92 92 Hindley 2.612 24,582 215 250 12.7 12.7 1 1 140 140 Horwich 3,257 15,619 400 400 16.3 16.3 1 1 120 120 120 120 50 Hurst 638 8,077 138 100 1 10.0 10.0 Huyton-with-Roby 3,053 4,577 ... Ince-in-Makerfield 2,320 22,720 150 2 18-0 6.5 Irlam 4,629 9,173 1,500 7 1,500 118-3 118-3 7 7 913 913 1,186 622 34 8 1,004 9,761 200 200 1 24.7 24.7 200 200 200 200

TABLE H-Contd.

Kirkham

Lancaster (B.)

Lathom and Burscough

857

3.506

13,641

3,836

38,325

7,203

60

1,075

100

130

1,075

100

1

1

21.5

50.8

39-6

21.5

50.8

1

1

627

627

627

627

		one lo		
		as edi		
			140,81	
840				

			Original			Area	of Sites.	No of I	ay-outs.	No of II		1 22		N 4	
DISTRICT.	Area.	Estimated Population,	of New	Total No. of New	Number	(Acı		10. 01 1	ay-outs,	No. of He	ouses in- louse Plans	No. of included in		No. of On which	Houses.
1	2	1919.	Houses required.	Houses proposed.	Schemes.	Submitted.	Approved.	Submitted.	Approved.	Submitted.	Approved.	Submitted.	Approved.	work has commenced 15	Completed.
URBAN-Contd.															
Lees	288	4,902	40	150	1	8-6									
Leigh (B.)	6,359	46,322	1,125	1,125	5	113-0	14-8	4	3	150	150	150	150	90	
Leyland	3,725	9,244	300	359	1	22.7	22.7	1	1						
Litherland	875	17,525	861	300	1	51.5	51-5	1	1						
Littleborough	7,856	11,676	149	132	1	12-9	12.9	1	1						***
Little Crosby	1,924	913					12.0					32			
Little Hulton	1,699	8,163	200	200	2	59-0	59-0	2	1			***	***		***
Little Lever	808	4,802	240	211	1	20-5	20.5	1	- 0	43	43	43	43	20	****
Longridge	3,285	4,210		6	1	0-5			1	211	211	114	114	38	***
Lytham	2,464	10,227		70	2	7.0									***
Middleton (B.)	4,775	28,872	700	400	4	54.9	30-9				***				
Milnrow	5,194	8,355	564	400	1	67.9	67.9	. 2	2	58	42				
Morecambe (B.)	1,801	13,925	25	100	1	11.8	11.8	1	1	54	54	54			
Mossley (B.)	3,624	12,837	140	50	1	6-1	6-1	1	1	100	100				
Nelson (B.)	3,466	43,172	600	313	4	69-5	14-0								
Newton-in-Makerfield	3,105	19,840	256	419	1	24-8		4	3	177	177	177	177	13	3
Norden	5,358	4,035					24.8	1	1	144	144	16	16		
Ormskirk	593	6,908	110	110	1	10-0			***						
Orrell	1,617	6,944	103	76	,		10-0	1	1						****
Oswaldtwistle	4,885	14,968		105	3	7-7	7.7	1	1	80	80				
Padiham	970	12,926	142	100	1	4.8		1	1						
Poulton-le-Fylde	915	2,599				10-0	***								
Preesall	3,232	1,605	37	36	2					***					
Prescot	409	8,941	636	670		2.0									
Prestwich	2,448	15,969	600	600	1	12-2	12.2	1	1	100	100	20	20	24	***
Radeliffe	3,082				3	39-3	39-3	3	3	333	249	305	106	40	
D. C.		24,428	520	518	3	47-7	47-7	3	3	68	68	52	52	42	8
Rainford	5,877	3,448	36	36	2	3.7	3.7	2	2	18	18			***	

TABLE II COM

				8,725	
			500.3		
			000,65		
			825,12		

TABLE H-Contd.

DISTRICT,	Area.	Estimated Population,	Original Estimate of New	Total No.	Number	Area o	f Sites res).	No. of I	Lay-outs.		Iouses in- House Plans		Houses in Tenders.	No. of 1	Houses.
1	2	1919.	Houses required.	of New Houses proposed.	of Schemes.	Submitted.	Approved.	Submitted.	Approved.		. Approved.			On which work has	Com-
URBAN-Contd.			1	5	6	7	8	9	10	11	12	13	14	15	16
Ramsbottom	6,423	15,310	100							1					
Rawtenstall (B.)	2000000	28,521		100	1	8-3	8-3	1	1	50	50	20	20	6	
Rishton	10000	1000000	1,195	1,195	5	61-1	61-1	2	2	200	200		***		
	2,000	7,611	21	48	1	1.0									
Royton	2,147	18,283	420	420	5	141-9	140-0	4	1	. 1					
St. Annes-on-the-Sea	3,342	9,959	88	60	1	5-3	5.3	1	1		***				***
Skelmersdale	1,942	6,690	12	100	1	1.0	1-0	1						6	***
Standish-with-Langtree	3,266	7,279	133	133	1	5.8	5-8	1					***		***
Stretford	3,240	47,506	800	800	5	65-7	65-7	5		57	57	***	***		
Swinton and Pendlebury	2,284	29,318	675	675	2	23.7	23-7	. 2	4	542	542	542	542	180	38
Thornton	2,996	5,331	200	100					2	231	231	230	230		***
Tottington	2,544	7,047	143	143	3	10-6	2.4								
Trawden	6,815	2,779		116	3	6-9									***
Turton	17,335	12,461	91	141	3	11-1									*** .
Tyldesley-with-Shakerley	2,490	16,255	725	500		-	8-7	1	1	56	56			***	***
Ulverston	3,172	10,389	80	80	4	49-2	21.4	1	1	224	224				
		10,000	00	80	3	1.6	1.6	1	1	18	18	***			***
Upholland	4,686	5,279	218	100	3	8-8	8-8	2	2						
Urmston	991	8,720	50	50	1	5.0	5-0								***
Walton-le-Dale	4,658	12,133	435	435	3	34.5	34-5	2	2	66	66		***	***	***
Wardle	3,192	3,443	149	116	1	10-5	10-5	1	1				***		***
Waterloo-with-Seaforth	986	29,895	462	462	2	26-0	3-0	1	1			***	***	***	***
Westhoughton	5,560	15,809	415	415	2	46-9	46-9	2	2	250	950		***		***
Whitefield	1,404	7,738	463	460	2	13-0	8-0	1	1	54	250	250	250	36	***
Whitworth	4,483	8,584	300	300							54	44	44	28	***
Widnes (B.)	3,093	34,052	1,100	1,100	1	163-8	163-8	20.5							***
Vithnell	3,705	2,962	68	21	3	3.2	100000	1	1	1,500	1,500				
Vorsley	5,413	15,052	585	380	3	38-2	20.0								
-		1,502,876	30,952	29,682	186	2605-6	38-2	3	3	60	60	60	60		
	1		1000	20,002	100	2000-0	1840-9	117	97	9,723	9,615	5,943	4,537	767	69

				Time:	
20 20 20 20 20 20 20 20 20 20 20 20 20 2					

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DISTRICT	Area.	Estimated Population,	Original Estimate of New	Total No.	Number	Area (Ac)	of Sites.	No. of 1	Lay-outs.	No. of H		No. of included i	Houses n Tenders.	No. of 1	Houses,
1	2	1919.	Houses required.	Houses proposed.	Schemes.	Submitted.	Approved.	Submitted.	Approved.	Submitted.	Approved.	Submitted.	Approved.	On which work has commenced 15	Completed.
RURAL—															10
Barton-upon-Irwell	6,793	9,052	130	130	2	11-0					1				
Blackburn	20,150	8,477	78	99	3	9-9	9-9	3	3	80	80	80	80	58	***
Burnley	41,774	18,266	138	204	6	14-4	1.5				1				***
Bury	12,016	9,063	63	234-	8	78-8						***		***	***
Chorley	39,988	22,625	304	304	12	55-4	53-9	10	9	220	220			***	
Clitheroe (Lancashire portion)	32,168	6,496	22	22	1	2.5	2.5	1	1	22	22				***
Fylde	38,541	11,493	50	29	12	6.2	3-4						***	***	***
Garstang	57,380	10,738	320	320	31	56-0							***	***	***
Lancaster	54,503	8,732	46	46	5	7-2							***	***	***
Leigh	11,574	10,389	873	711	4	79-1	79-1	3	3	740	740	740	740		
Limehurst	4,689	9,281	100	100									740	87	
Lunesdale	76,267	6,154	74	74	3	3-3				***		***	***		***
Preston	52,929	19,323	200	200	9	22-9	15-4	1				***			***
Sefton	14,867	4,899	100	100	. 7	4.5	4.5	7	7	36	36		***		***
Ulverston	127,549	16,683	100	50	13	11.8	2-1					***		***	***
Warrington	19,355	11,630	88	112	7	17-2			***						***
West Lancashire	61,555	20,067	354	354	25	44-2	26-5	14	12	52		***			***
Whiston	31,179	19,692	334	192	13	22.4	8.0	8	8	80	52				***
Wigan	11,695	6,120	116	116	6	18-2	4.2				42	34		***	
Totals :— Rural Districts	714,972	229,180	3,490	3,397	167	465-0			***	***					
		1,502,876	30,952	29,682	186	2605-6	211-0	47	43	1,230	1,192	854	820	145	
Administrative County I		1,732,056	34,442	33,079	353		1840-9	117	97	9,723	9,615	5,943	4,537	767	69
	,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	01,142	33,079	303	3070-6	2051-9	164	140	10,953	10,807	6,797	5,357	912	69
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			100.0	
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TABLE I.—SUMMARY OF SANITARY WORK CARRIED OUT DURING 1919.

			NAL				Township or																			4			
	5	Box	DATS.	Ided	Di	ATRIES	es, Cowshieds	8, &C.			NUBBANC	ES.						CLOSET	Accor	EMODA	108.						SMOKE BSERVATIONS.	ME	EDSCAL OFFICER OF HEALTS
DISTRICT.	Refuse Destructor provided.	No	No. of Infringements.	Public Abattoirs provi	No. of Cowkeepers.	No. of Dairymen	or Purveyors. Any arrangement for Veterinary Inspection of Cows.	Samples of Milk examined for Tubercle.	961	intices erved.	Nuisances abated.	Legal Proceedings and Result.	No. of Middens,		No. of Pall Clouets.	No. of Ashpits (excluding middens).	No. of Fresh Water Closets.	No. of Portable Receptables for refuse,	No. of Waste Water Closets.	a to	Privy Glosets to Waste W. C's.	og e	1	W. C's.	Fresh W. Cr. Council's Contribution towards east of Conversion.	Number.	Legal Proceedings and Result.	(a) (b) The the	D ISSPECTOR OF NUTSACEA, WITH SALARIES. A Wax on military duty. No claim for repurment of salary. Salaries given in this table as se am units. symment by the salaries given by the salaries given to the salaries of repurment to be last claim for repurment
Abram		33	6		16	16			40	0 25	200	1	100	-		1			1	4	A	T							
Accrington (B.)				Yes			14 Yeu						530											- 4	. Half-cost			M.O.	 A. O. Bentham, 500 W. H. Roby, 5130
Adlington													28	28			1111		9245					- 4	. Half-cost			M.O.	A. Greenhalgh, £150
Ashton-in-Makerfield					40		6 When		223		1390		467							3				1	. Water free			M.O.	
		4			417		required		1	200	1300	"	2	2	3748	2950	498	135	2	10				4					H. Winstanley, 2167
Ashton-under-Lyne (B.)	*Yes	100			7	2 9	91 Yes		431	1 49	867		1 41		12	360	3103	5946	8021	4.7				AJ	. £4 per closet			L	
Aspall					19	9			127	1	127		683	683	6	60								AV	. Connection to			L	W. C. Morrie (h)
Atherton	Yes					A	32				1			1										47	sewer to			M.O.	L. Cooke, £33 H. Gibson, £94
					47	A	32		47	7 62	419	-	35	84	1	1134	2290	1405	1415	10		4 7		17	. Connection to			M.O.	J. Marsh, £102
Audenshaw		47			11	A	4		1	4	4														supplies water			d.	K. Jepson, \$255
Pacup (B.)					119		8						15	23				1363	1411					4	. Main drain laid	18		M.O.	D. H. Chretham (8)
Barrowford		A					68 When required		274			0000	12	12	2163	157	1245	4538	448	2		- 7	8 7	47	£4 per closet			M.O.	H. M. Doxey, 170 J. P. Brown, 1155
					34				2				31	31	20	777	174	297	831					4 7		10		M.O.	A. E. Barnes, 1700
Billinge					36								406	602	10	63	53							4.7				L	F. Sutcliffe, £105 4s. 6d. R. O. Mather, £10
Blackrod					33				20		20		371	371	23	264	365	342		2						6		I.	R. Powell, 160 J. W. Unsworth, 145
Brierfield					9		1		51	1	51		30	41	50	1580	413	440	1693									I.	J. R. Orrell, 147
Carnforth					14		1						235	235	3	532	476											L	B. Halstend, (14) 4s. 6d.
Chadderton					51	7	27 Yes		529	11	491						1532	Not	1000000						Half-cost	15		L	E. S. Jackson, 520 W. Guest, 530
Chorley (B.)	Yes			Yes	31	A	2		1281	75	1350		59	68	13 k	known 2	7079	known 6886		10000					16s, and con-			I.	J. Wood, £333 15- A. Ashworth, £240
Church		4			. 5	5			247		140		2												nection to sewer	**		M.O.	J. A. Harris, £100 W. Hoaps, £287
		A			47				111		140		9	9	154	791	261	280	1498	1		10		1	Pedestal, seat, and cistern	7		M.O.	J. Craig. 500
Clayton-le-Moors					9	2			15		111	1								47					provided			L	F. Howarth, 198
Clitheroe (B.)		**		Yes							167	400				1726	86	335	1946					19	-	16		M.O.	L. Tattersall, 100
Colne (B.)									93			One—To pay	5		1018	14	917	2900	1532	10 1		437		11		2		M.O.	J. P. Dixon, £110 W. E. Barker, 100
Coline (D.)		417			94	4	sionally		362	50	344		2	2	388	4396	1314	947	4482		1	1		1	Half-rost			I.	J. Bolton, £100 W. Doyle, £150
		47									./	The state of the s	A ST				A TOP	4				4				1			H. Barrett, 1208
											1	Blosed at present.	1	estrue	or at 5	selson F	B) used for	or slaught	er-how	e refu	0.								

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		Boa		led.	Da	IRIES,	COWSHEDS,	&c.		Nu	IBANCE	18.						CLOSET A	СССОМИ	ODATIO	s.				One	SMOKE SERVATIONS.	MEDICAL OFFICER OF HEA
District.	Refuse Destructors provided.	No	No. of Infringements.	Public Abattoirs provide	No. of Cowkeepers.	No. of Dairymen or Parreyors.	Any arrangement for Veterinary Inspection of Cows.	Samples of Milk examined for Tubercle.	Informal,		Nuisances abated,	Legal Proceedings and Result.	No. of Middens.	No. of Closets.	No. of Pail Closets.	No. of Ashpits (excluding middens).	No. of Fresh Water Closets.	No. of Portable Receptacles for refuse.		wy Closets to	Closets to	W. C's.	o W.	Council's Contribution towards cost of Couvernion.	Number.	Legal Proceedings and Result.	AND INSPECTOR OF NUMBERS (a) Away on military day (b) No claim for repaymer of salary. The salaries given in this table the amounts approved by Ministry of Health (horbiling approved War Honors) as do on the late claims for repaymen
rempten	Yes				43	2			74	35	138		Cess- pools 35		2557	65	812	2850	286			49					M.O. A. V. Davies (M. Hur to 31st March, 1919) I. F. Taylor (A. Wild
roston					30			100	12	35	12		292	292	133	133	31	31	2			1			3		M.O. A. Duckworth, 220
balton-in-Furness					31		When		150	38	385		374	427	15	878	2090	873	51	36 .			23 34				I. T. W. Noblett, 185 M.O. G. H. Patterson, 114
lacwen (B.)	Yes			Yes	101	103			538	411	709				1759	13	6400	10450	2475			8	4.	Half-cost of	105		I. W. E. Caine, £160 M.O. F. G. Haworth, £108
enton					24	34			165	2	275		178	328	27	341	4002	3483	661	9 .		1	:	pail conversion			I. W. E. Marsden, 6252 C. R. Walsh, 5242 8 M.O. W. Stewart, £100 I. A. C. Brockleburst,
Proyleden	Yes				14	45			162	45	914		209	321	18	98	3381	2587	39	100 .					11		M.O. F. G. P. Ilderton, 18
leeles (B.)	Yes	8	9		2	50	required		576	1473	3571	1-To pay	10	14	26	15	11857	10235	233					25s. per eleset	15		I. F. Schofield, \$280 M.O. W. M. Hamilton, \$7
allsworth					11	11			182	80	812	costs	73	132	1086	241	3019	3142	191					Pails-Whole cost	4		I. C. W. Laskey, 1293 M.O. G. B. Brown, 1100
arnworth	Yes				1.0	4			14	26	225		1480	2743	71	1252	3679	1021	601	3 .				Privies-Half-cost £4 10s, per closes			I. R. Rutter, £193 M.O. A. Kershaw, £100
lectwood	Yes			Yes	1:	36			200	9	250				36	88	3250	3220	32					·-			I. J. Marshall, 2230 Sc. M.O. D. M. Gill, 2150 (Including 237 10c.
ormby					20				210	16	198		196	196	419	610	508	402									I. T. R. Bailey, £170 M.O. F. Carter, £30
ulwood					35	3			2		2	(20)	23	23	22	35	2210	956	7	2 .					12		I. T. Grime, £136 b. M.O. J. Garth, £50
olborne					14	5	1		106		97		429	1038	8	80	365	125	18				1				I. A. E. Coupe, £100 M.O. J. Dobb, £70
range-over-Sands					1	2	When		6	2	2		18	18	3	300	510	180							**		I. W. Pasquill, £101 1: M.O. G. H. Patterson, £4
eat Croeby					18	1	When	1000	100	156	156		21	The state of	5		5034	3117						By Agreement	8		I. T. Huddlestone, 11 M.O. J. Huskie, 1120
eat Harwood				Yes	2	1	required		29		282		-	Tanks 120	66	2400	420	800	2736				40 00	Half-cost			I. S. Wilson, £180 M.O. J. Patchett, £100
aslingden (B.)	Yes	**			74	5 58	When required	100	136	12	113		17	18	1097	1091	416	2500	2406	13 .				£2 per closet	**		I. H. Eddleston, £187 M.O. W. R. A. Costes, Broomhead to
ydoek					1	2 8			215	8	380		1401	1591	3		313	313	**	9 .		40	1				I. R. Austin, £190 M.O. A. Dowling, £93
ysham		-			11	1 550			8	2	10		46	46	4	**	855	600	20	9 .		1	** 3		44		I. J. Evans, £106 M.O. R. Herd, £50
ywood (B.)	Yes	10			36	3 5	Yes		198	35	393		720	1362	365	1044	1548	2290	2939	30 .		1	100		88		I. H. Millar, £150 M.O. H. H. I. Hitchon, £
sdley		-			2	3	When required		1114	257	762		1007	1500	1008	50	1540	1502	19	2 .				Connection to sower and supplies water			I. T. Robinson, 6213 M.O. J. Chroenell, 1166 I. T. France, 5200

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	-						
		into Month					10

					100																			Section 1			
		Boa		ed.	Da	mms, C	COWSHEDS,	&c.		Nu	IBANCES			100				CLOSET A	ССОММ	ODATEO:	K.					SMOKE SERVATIONS.	MEDICAL OFFICER OF HEALTH AND INSPECTOR OF NUISANCES.
Distract.	Refuse Destructors provided.	No. Inspected.	No. of Infringements.	Public Abattoirs provid	No. of Cowkeepers.	No. of Dairymen or Purveyors.	Any arrangement for Voterinary Inspection of Cows.	Samples of Milk examined for Tuberole.	Informal.		Nuisances abated.	Legal Proceedings and Result.	No. of Middens.	No. of Glosets,	No. of Pail Closets.	No. of Ashpits (excluding middens).	No. of Fresh Water Closets.	No. of Portable Receptacles for refuse.	Waste Water Closets.	Privy Closets to Privy Closets to		0 .	. 9	Cemoil's Contribution towards cost of Conversion.	Number.	Legal Proceedings and Result.	with Establis. (a) Away on military duty. (b) No claim for repayment of salary. The salaries given in this table us belonger to the salaries given in this table us Missistry et Health linchuling the approved War Bosson as shown on the last claim for repayment.
Horwich		44			31	15			92	20	145		61	61	94	1272	2742	1188	1244		2			Privies Half-cost	20		M.O. J. S. Sewell, £100 L. J. H. Brocklehurst, £260
Hurst					1 2	6	When		53	2.	53		97	33	5	630	323	376	1782	1:		1		Pails Whole cost 12 per closet	60		M.O. R. Price, £62 10s. L. S. Shirt, £160
Huyton-with-Roby	-				1 3		required		6	4	20		345	460	76	40	480	520	-	1							M.O. A. W. McDonald, 149 L. J. Worrall, 1120
Inco-in-Makerfield		25			13	5			546	33	546	**	1009	2067	54	56	1411	977		17		**			**	***	M.O. J. H. Fletcher, £130 I. W. Thorpe, £242 8s.
Irlam						3			106	18	94		781	836	90	443	1196	973	50	8					4		M.O. J. W. Roberts, £110 17s. 7d.
																										1	I. R. W. Winterbottom, £130 Is. 7d.
Kearsley					1		100		14	40	163	***	723	1404	39	184	500	253	156					Half-cost			M.O. J. C. Eames, 180 I. G. Walsh, 1140 St.
Kirkham					-1				67	2	83	**	205	352	17	49	562	341	28	23					14	2007	M.O. C. Court, £45 I. J. R. Holmes, £90
Lancaster (B.)	Yes	20	1	Yes	27	85		- 22	955	421	1589	**	25	25	67	4772	12148	2331				1		44	15		M.O. J. D. Buchanan, £480 (Including £20 for the Port)
									14	1	38		800	1200	A few	200	300	100	10	6	1.						I. F. W. Smith, \$271 (Including \$20 for the Port) M.O. J. G. Laing, \$70
Lathom and Burscough						-			28		23		000		834	681	259	578									I. T. Burrows, £160 M.O. J. Currie, £60
Lees	**						Yes	**	432	38	410	130	210	421	5	3868	7802	1160							53		I. J. W. Liversage (b) M.O. J. C. Beckitt, 1220
Leigh (B.)	Yes	22			0	9	1000		139	6	109	**	810	810	487	162	789	719		20 .		_			23		I. E. Jackson, £307 M.O. E. Berry, £60
Leyland					12		1177		382	2	17523		3	200	10	924	3356	1439									L. H. Cheetham £120 M.O. T. D. Williams, £100
Litherland					1	7	required	100	92		10000		100		1616		419	79				332			28	1000	L. W. H. Elce, £150 M.O. (a) J. T. R. MacGall, (D.
Littleborough		36	1		70			100	92	-	384		1000	100	1010	1102	*10		200	1	-	0			-	100	G. MacGill, acting) 567 J. H. E. Williamson,
Tint Contra						3			1	-	1		55	51	5	.0	245	114									M.O. E. Buxton , £40
Little Crosby					- 11	3		-	11	11	198		616	1195	44.	178	441	172	104						6		I. T. Massam (b), M.O. J. H. Marsh, 260
Little Hulton			2			. 0		-	45		39		366	728	21	54	233	136	114					Half-cost	3		I. J. T. Davies, £135 M.O. J. S. Pickford, £45
Little Lever					10				36		36		13	13	31	211	493	726	400		. 2			(in special cases)			I. J. Seddon, £120 M.O. G. Jukes, £50
Longridge	25			Van	18				63	0.00	171				10	57	2357	2294	6							**	I. J. Marshall, £60 M.O. (a) J. C. Fisher, £110
Lytham	Yes			Yes	-		required																			1	(G. Barlow acting) L. H. Yates, (200
Middleton (B.)	Yes	46			64	10		**	331	4	399	**	1	1	425	1767	2228		3639	100		4		Half-cost	52		M.O. A. Ball (F. J. Wheeldon, to 3rd Aug., 1919) £300 L. C. H. Norton, £204
Milnrow					74			1	89	13	400		90	98	1274	193	254	772	78		. 2	2	**		5		M.O. J. Chadwick, 160 L. T. Warrington, 1170

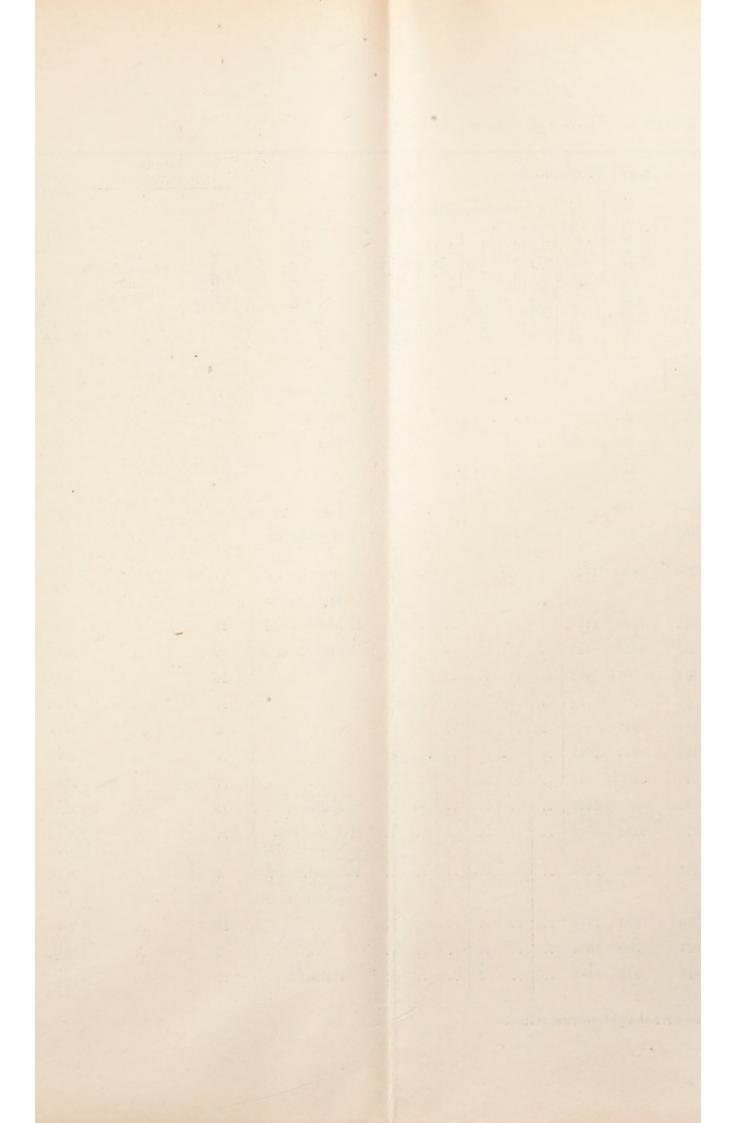


Distract. Distract.	Contract of the Contract of th	BOATE		ride	-	mesio; o	OWSHEDS,											CLOSET A								SMOKE	
District. Destruct	200	in the						6	Notic	008	ANCHS.	-	Privy		1	63.1		i l	CCORS					-	Овя	HEVATIONS.	MEDICAL OFFICER OF HEALTH AND INSPECTOR OF NUISANCES.
Refuse	W. Terri		5	Public Abattoirs pro	No. of Cowkeepers.	No. of Dairymen or Purveyors.	Any arrangement for Veterinary Inspection of Cows.	Samples of Milk examined for Tuberch	Informal.	Statutory.	Nuisances abated. Legal Proceedings	26	lidden	or Cicologia,	No. of Pail Glosets, No. of Ashrita	(excluding middens).	Fresh Water Closets	No. of Portable Receptacles for refuse		vy Closets to eah W. Cs. vy Closets to	Closets to	Press W. C's.	te W. C's. to	Council's Contribution towards cost of Couversion.	Number.	Legal Proceedings and Result.	(a) Away on military duty, (b) No claim for repayment of salary. The salaries given in this table are the amounts approved by the Ministry of Health (including the approved War Bloma) as shown on the last claim for repayment.
Morecambe (B.) Yes		**			17	47	Yes	1	54		54	1	90	200	4	1000	4318	Not				1					M.O. J. W. Watterson (b) 550
Mossley (B.)					19	10			98		83		3	3 1	873 1	1055	282	known 358	152			2	** **			**	I. T. B. Lamb (6), £241 M.O. J. Healey, £100
Nelson (B.) Yes					36	48	Yes	22	57	15	520			-8	4 7	7320	2273	2530	8391				11	considered	2		I. R. H. Buckley (b) M.O. A. P. Millar, £150
Newton-in-Makerfield	2	**		Yes	10	14		- 65	207	71	431	. 2	97	144 2	710	94	786	3244	30	5 .	. 1	5		Half-cost			I. J. T. Nutter, £225 M.O. H. E. Watkins, £150
Norden		**		- 15	36	**		1 22	10	4	14		50	102	688	186	175	241	12			3			11		I. H. Asheroft, £250 M.O. W. H. Bateman, £40 I. J. W. Sunderland, £100
Ormskirk Yes	2		10		4	5	**	6	40	9	44	. 3	63	448	44	165	988	575	7					**	8		M.O. G. E. Scholefield, 180
Orrell					15	7	**		26	13	133	- 4	55	939		6	376	314	8	1 .							 H. W. C. Chadwick, £155 M.O. K. Fraser, £75 J. Farrimond, £75
Oswaldtwistle				Yes	70	2	**	**	116	35	280	- 1	93	324	395 1	1484	341	235	2454	1	3		1				M.O. A. E. Townley, £130 L. A. Ashworth, £200
Padiham Yes	-	**		**	10	22	**	100	201	11	451			. 1	424	27	490	2922	1559			2	6		34		M.O. N. R. Dharmavir, £144 So L. E. Shaw (R. Ratchiffe,
Poulton-le-Fylde					18				2		15		98	98	5	216	531	350	11								M.O. W. Riddell, £33 I. J. B. Moss, £60
Precenti					36	4	**	**	11	***	11	2	68	268	126	52	93	32									I. J. B. Moss, 660 M.O. D. R. Pike (M. R. Gooding, to 30th June, 1919) 240
Prescot					3	9			104	**	89		10	815	14	234	1011	543		4 .				Pedestal and			I. G. W. Proffitt, 258 M.O. S. M. Green, 285
Prestwich					12	14			79	6	184 2-Or	der to 1	39	202	104	564	4271	2748	223	9 .	. 2			fittings	7		I. R. Norris, £182 M.O. F. Stephenson, £130
Radeliffe Yes					20	26			201	52	abate a pay c	osts	39 1	598	200	919	2579	1801	1673	17 .			. 3		73		I. W. Windsor, £200 M.O. D. P. M. Farquharson
																777									-		£100 I. W. Holt, £200
Rainford				**	21	1	-		13		13		00	680	8	8	46	1						**	22	**	M.O. F. Prosser, £30 I. B. Smith (b)
Ramsbottom Yes	16				60	1	**	44	64		478	1	86	360	333	918	1379			7 .					8	**	M.O. H. Lawrie, £80 I. G. A. Shaw, £234
Rawtenstall (B.) *Yes	10	**	**	**	250	1	**	**	245	4	271 1-0 made a pay c	and to	50	50	555	680	2163	4970	3858			**	1	Half-cost	**		M.O. J. E. Helm, £240 L. W. E. Hoyle, £200
Rishton	79	**			30	1	When		47	1	48		34	26	24 1	1011	235	92	1592						8		M.O. J. Barr, £66 13s. 4d. L. J. Cornall, £113
Royton Yes	16	24			23	3	Yes.		161	34	335 1-F		2	2 2	1600	610	697	1935	946	9 .		5		Half-cost up to	2		I. J. Cornall, £113 M.O. R. Young, £120 I. J. Butterfield, £208
St. Annes-on-the-Sea Yes	19	44)		Yes	19	6	Yes	5	255		285			19	48		4598	2406	21				** **		17	**	M.O. J. Tenmant, £100 L. W. E. Proeter, £270
											11/10		1		- 1	1					1	-					

and the same of the same of						-			1						_									_	ш		_		
			JANAL DATE	ed.		DAIR	ms, Ce	OWSHEDS,	&c.		N	UIBANC	zs.						CLOSET A	ccoss	ODATE	N.			ш			SMOKE ENVATIONS.	MEDICAL OFFICER OF HEALTS AND INSPECTOR OF NUISANCES
District.*	Refuse Destructors provided.	No. Inspected.	No. of Infringements.	Public Abattoirs provid	No. of Contrasters.	Mr. of Palesman	No. of Dairymen or Purreyors.	Any arrangement for Veterinary Inspection of Cows.	Samples of Milk examined for Tuberele.		Statutory.	Nuisances abated.	Legal Proceedings and Result.	No. of Middens.	No. of Closets.	No. of Pail Closets.	No. of Ashrits (excluding middens).	No. of Fresh Water Closets.	No. of Portable Receptacles for refuse.	No. of Waste Water Glosets.	esh W. C's.	N S	osets to W. C's.	W. C's.	W. Ca.	Council's Contribution Lowards cost of Conversion.	Number.	Legal Proceedings and Result,	WITH SALARIES. (a) Away on military duty. (b) No claim for repayment of salary. The salaries given in this table on the amounts approved by 0 Ministry of Health findshinks a proved to the province of the salaries of the salaries on the last claim for repayment.
Skelmersdale	-					5	1			55	100	55		713	1131	21	713	231	120	10	12 .		160			alf-cost of privies	**		M.O. V. O'Reilly, £55 L. E. Huntington, £73 in.
Standish with-Langtree			11	160		27	2		**	50	7000	44		479	995	26	53	271	30	1			100			Hote-cost or Irana	1.5		M.O. G. H. Ormsby, £55 I. A. Clough, £100
Stretford	Yes	**				8	140			458	69	2355	1-Order made and owner to re- fund cost of work carried	1	1	182	1691	13645	7556	331				77	8	£5 per closet	77		M.O. W. J. Heslop, £245 I. E. Nuttall, £420
									1	1			out (£241/17/10)																
Swinton and Pendlebury	Yes	**	22	- 11		17	24			384	302	565	(2241)11/10/	769	1359	67	301	5233	4748	79					3	**	4		M.O. W. S. Stalker, £300 L. A. Bleakley, £260
Thornton						50	30		1000	23	15	38		76	76	285	184	805	860	21		. 1	6				4		M.O. F. S. Rhodes, £100 I. H. Fenton, £100
Tottington		-				51					7	113		532	1064	194	199	471	302	134	2 .		**	**	Н	alf-cost of pedes- tal and cistern	6		M.O. G. Bailey, £60 L. L. Kenyon, £168
Trawden			100	**	3	85		When		3	**	3	**			316	325	112	62	233		. 5	2	5					M.O. G. Skeen, £20 L. J. H. Tatham, £52
Turton				**:	1	160	2	required		125	6	113		816	816	78	816	772	148	1154	6					Half-cost	60		M.O. J. Robinson, £80 I. A. McMorrine, £225
Tyldesley-with-Shakerley						21	6			190	17	247		207	495	9	933	2073	670	582	5					Half-cost	8		M.O. A. J. Lowe, (B. Blake more to 31st Aug. 1919) £100 I. J. Smith, £254 18e.
Ulverston						19		When		55	6	61		105	217	4	600	2011	1480		5 .								M.O. G. H. Patterson, £130
Upbolland						41	4	required	3.0	17	22	67		532	820	25	90	197	9		12 .					Connection to			I. C. T. Hague, £120 M.O. F. H. Browne, £70
Urmston						7	11	You		19	20	55	**	47	68		79	1954	1909	77				**		NOWOT.			I. A. Hunt (b) M.O. G. E. Fryer, £60
Walton-le-Dale	-					45	1			568	30	200		130	259	961	822	1270	1680	327	16	. 2	6	**		Half-cost			I. J. Heath, £140 M.O. C. J. Trimble, £200
Wardie						1001				19	12	31	1 Conviction	120	205	238		331	356	108			9			Connection to			I. N. Baron, £156 M.O. G. MacGill, £40
Waterloo-with-Seaforth								Yes	2	710	286	2097	29 Ashbins		1	10	1184	10112	4812							sewer	-6		I. J. D. Hurst, £140 M.O. V. J. Glover, £130
Waterloo State Office					1			-					supplied by Council in default of compliance with notices					1											I. J. H. Cannell, £300
Westboughton						84	**			77	5	82	AIFE HOLICAN	2142	2142	2	294	836	345	117						Half-cost			M.O. W. H. Leigh, 180 L. F. J. A. Green, 1240
Whitefield						9	17	Yes	1	43	1	124		401	660	68	214	726	435	164	4 .		1	.,			5		M.O. A. J. Young, £60 L. C. Whiteley (E. Shaw to
Whitworth					18	20	40			24		214				1444	649	276	682	200			21			Each case considered			M.O. T. J. L. Forbes, £80 L. J. Cordingley, £195

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			NAL ATS.	od.	DA	IRIES,	COWSEEDS,	&c.		No	IBANCE	3.					2	CLOSET A	СССОМА	ODATIO	IN.			п			SNOKE IRRVATIONS.	MEDICAL OFFICE	
Diarator.	Refuse Destructors provided.	No. Inspected.	No. of Infringements.	Public Absttoles provid	No. of Cowkeepers.	No. of Dairymen or Purreyors.	Any arrangement for Veterinary Inspection of Cows.	Samples of Milk examined for Tubercle.	Informal.		Nuisances abated,	Legal Proceedings and Result.	No. of Middens.	No. of Closets.	No. of Pail Closets.	No. of Ashpits (excluding middens),	No. of Fresh Water Closets.	No. of Portable Receptacles for refuse.	Waste Water Closets.	Fresh W Cs.	Privy Closets to g	1	1.	0	Council's Contribution towards cost of Conversion.	Number.	Legal Proceedings and Result.	and Inspection of WITH Sala. (a) Away on mil (b) No claim for of salary. The salaries given is the amounts app Monistry of Health approved War Be on the last claim fe	itary duty. repayment s this table a proved by ti h (including ti tous) as show
Widnes (B.)	Yes	8			5	51	Yes		615	33	1574		550	550		300	4461	5655	1494	20 .		1		2	Half-cost			M.O. A. Jones, i	
Vithnell	**	**		**	26	6	**	300	20	22	20		22	42	571	350	150	210	50			100				4	-	M.O. S. W. Macle	an, £33 %. S
Worsley	**	48	9	100	22	2	11	**	86	26	242	**	2125	2125	- 4	468	1371	904	50							16	**	I. A. Penney M.O. R. Sayers, I. J. Willcook	£92
TOTAL URBAN DISTRICTS	30	284	36	12	3217	1375	29	18	17121	4971	34442	8	29957	43321	41513	76292	188865	154764	85935	439 1	5 18	158	35	63		970			
RURAL.													100	-	7000		100000							П					
arton-upon-lrwell	100	100		44	23	31			120	100	207		450	500	200	50	1430	1000	12	23				ш		27		M.O. D. W. Dav	ridson, £80
dackburn	44		44		142		44	-	197	200	197		65		1031		917	280								19		I. R. G. Chile M.O. W. R. Poll	lard, £80
Jurnley	500	1	**		450	1	When		160	13	70			Tanks 771	820	2400	604	1658						1				I. H. Ecclest M.O. H. J. Robi	inson, £150
lury		13			90	2	required		52	4	130		615	1284	185	261	520	232	101	10		100				8		I. J. Laycock M.O. J. W. Cool	k, £142 10m
horley					120		100	-	113	30	412	-	3525	3525	328	50	445	500	35					ш	Half-cost			I. H. Hurst, M.O. J. A. Harr	is, £150
Aitheros (Lane, portion)	100	11			72	-			61	**	44	100	773	773	243	Not	393	243	320	4 .				ш				I. H. F. Free M.O. J. M. Posti	lethwaite, £
Fylde	0.000	81			280	11		-	87	13	89		1500	1812	140	501	654	517	16	1 .				ш				M.O. C. Court, i	002
Jarstang	37	25			48	2	***	**	30		30		482	479	875	564	354	489	14	3			**	н				I. J. Jolly, £ M.O. B. C. Bros W. Fish March, 15	180 emball (R. 1 per to 31 919) £129 16
ancester	140	16	1		94	2			153	29	217		662	940	193	313	629	89	14	3 .		1						I. J. Cook, £: M.O. W. Edmor	235
Leigh	1000	16			121	1		22.	90	21	200		900	1686	75	200	254	40	2									I. J. Littlefai M.O. L. Teng, f.	ir, £220
imehurst	***	10			95	4			162	7	160		162	298	435	375	131	24	570		-							I. J. Monks, M.O. G. F. Bow	£210
anesdale		1			64	60			13	3	59		1255	1500	67	165	456	22										I. H. H. Turn M.O. B. J. Aches	ner, £110
Preston		6	- 44		416	100	When		5	76	76	2-Orders	2759	2759	931		417	1713	425									I. E. Ellis, £8 M.O. C. J. Trim	55
efton	**		2.	11	62		required		58	10	68	made	784	824		120	Not	known										I. T. Asherof M.O. J. C. Brade £154 2s	t, £282 shaw,
Ulverston		14		22	143	14	When required		57	17	10		1508	2316	6	537	873	200		12 .		35						I. F. Pool, £1 M.O. G. H. Patt I. T. Hudson	141 16s. 4d. terson, £261



	Canal Boats.				Da	DAIRIES, COWSHEDS, &C.			NUISANCES.				CLOSET ACCOMMODATION.										1		SMOKE OBSERVATIONS,		MEDICAL OFFICER OF HEALTH		
District.	Terfuse Destructor provided. No. Impected. No. of Infringements. Public Abattoirs provi	No. of Corrhecpers.	No. of Dalrymen or Purreyors.	Any arrangement for Veterinary Inspection of Cows.	Samples of Milk examined for Tuberele.	Informal.	Statutory.	Nuisances abated.	Legal Preceedings and Result.	No. of Middens.	No. of Closets,	No. of Pall Closets.	No. of Ashpits (excluding middens).	No. of Fresh Water Closets.	No. of Portable Receptacles for refuse.	No. of Waste Water Closets.	to to	Privy Closets to Waste W. C's.	Closels to	h W. C's.	Pail Glossets to on Waste W. Ch.	W. C's. to	Semeil's Centribution formards cost of Conversion.	Number,	Legal Proceedings and Result.	AND DESPRETOR OF NUMBERS WITH SALARIES. (a) Away on military duty (b) No claim for repaymen of salary. The salaries given in this table the amounts approved by Ministry of Health integra approved War Bonus; as on on the last claim for repayment on the last claim for repayment			
wrington					63				85 65					621 3286			440 688	878 80		4									M.O. T. A. Murray, £200 I. P. W. Kerfeet, £170 M.O. G. E. Scholefield, £6
histon							**	**	212 35	15	193			2860 916		1050	824 91	50		2						Half-cost	15		I. T. G. H. Hunter, £200 J. Ainsworth, £182 S M.O. T. U. Mercer, £200 I. H. Brown, £175 M.O. G. H. Ormsby, £96
FAL RURAL DISTRICTS		93	2		2588	64	3		1755	405	2515	2	21976	27215	8094	8149	10120	8015	4231	64		39	1		4		69		I. P. Fairclough (H. Eli to 3 ist July, 11 £216
TAL ADMINISTRA- TIVE COUNTY	30	377	38	12	5905	1439	32	18	18876	5376	36957	10	51933	70536	49607	84441	198985	162779	90166	503	_	57 1	59	35	64	**	1039		

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Nuisances.—The following statement, collated from the local health reports, refers to the work carried out in regard to the suppression of nuisances:—

Number of nuisances abated ... 36,957 ... 24,008 , notices served ... 24,252 ... 15,135

In 1917, nuisances abated amounted to 27,144, 33,180 in 1916, and 43,878 in 1915.

Closet Accommodation.—The figures below, which have been taken from district health reports, show approximately the number of each type of closet accommodation in the County area:—

]	Privy middens			 	51,933
	,, closets			 	70,536
1	Pail closets			 	49,607
1	Water closets			 	198,985
1	Vaste-water closets			 	90,166
1	Ashpits (excluding n	niddens	:)	 	84,441
]	Portable receptacles			 	162,779

Conversions of privy closets and pail closets during 1919 and the four preceding years are shown below:—

	1 9 19.	1918.	1917.	1916.	1915.
Privies converted to					
water closets	518	137	324	800	2856
Privies converted to					
pail closets	57	18	76	86	219
Pail closets converted					
to water closets	194	42	148	272	759

Table "I," here inserted, shows the position as regards closet accommodation of each sanitary district.

Canal Boats.—The number of canal boats inspected numbered 377 in 23 districts. Thirty-eight infringements of the Acts were noted.

Slaughter-houses. — Public Abattoirs. — The position in regard to the slaughtering of cattle remains practically

the same as last year. Owing to the Government requirement that cattle should be killed, as far as practicable, in a central slaughter-house, inspection of meat has been greatly facilitated. Many district Medical Officers of Health state that it is highly desirable that such centralised slaughtering should continue. During the war period it has been clearly demonstrated that slaughtering in small unsuitable premises, often situated in unsatisfactory surroundings, at the rear of butchers' shops, need not be revived.

Public Abattoirs.—There are public abattoirs in 12 districts, viz., the Boroughs of Accrington, Chorley, Clitheroe, Colne, Darwen and Lancaster, and the urban districts of Fleetwood, Great Harwood, Lytham, Newton-in-Makerfield, Oswaldtwistle and St. Annes-on-the-Sea. The erection of a public abattoir is stated to be "the chief sanitary requirement" of Denton, Haslingden (B.), Heywood (B.), Horwich, Morecambe (B.), Nelson (B.), and Withnell.

Food Inspection.—The following summary shows approximately the amount of unsound or diseased food seized and destroyed in the County area during the year under report:—

On account of tuberculosis.—1,321 carcases, or parts of carcases.

For other reasons.—36 carcases of cows, 61 sheep, 11 pigs, 11 calves, 436 rabbits, 39 head of poultry, beef 6,176 lbs., veal 61 lbs., mutton 10,184 lbs., offal 11,793 lbs., pork 21 lbs., ham and bacon 6,451 lbs., fish 33,032 lbs., fruit and vegetables 7,800 lbs., eggs 4,048, tins of milk 265, and miscellaneous food 18,597 lbs.

In eight instances legal proceedings were instituted.

Little is said in the district health reports as to the action taken (if any) for securing a standard of suitability and cleanliness of premises where food is prepared or kept for sale for human consumption. The need of some form of effective control over the storage and manufacture of food is obvious.

Dairies, Cowsheds, and Milkshops.—Table "I," inserted opposite page lxxi., gives particulars regarding the number of cowkeepers, dairymen, and purveyors of milk in each sanitary district. The approximate totals for the whole Administrative County are:—

Number of cowkeepers 5,805 · ... 5,805 · ... 1,439

Regulations under the Dairies, Cowsheds, and Milkshops Order, 1885, have been adopted in every County district, except Little Crosby where there are only two cowkeepers.

Reference is made in many reports to the unsatisfactory condition of cowsheds in respect of lighting and ventilation, the grooming of cattle, and general cleanliness.

Arrangements for the examination of cattle by veterinary surgeons have been made in 32 districts.

Bacteriological Examination of Milk.—From five districts 18 samples of milk were submitted for bacteriological examination; in two instances tubercle bacilli were found to be present.

Smoke Observations. — These observations in 1919 numbered 1,039, against 860, 1,264, 1,711, 1,965, and 2,857 in the preceding five years. Table "I," page lxxi., shows the districts in which the observations were taken.

Scavenging and Refuse Removal.—The County report for the year 1914 gave brief details of the arrangements existing in each district for scavenging and refuse removal. Since then very few developments have taken place. The number of privy middens and privy closets is shown on page lxxi. In certain of the rural districts, where the removal of ashpit contents usually devolves on the occupiers of the houses, the Councils are urged by the Medical Officers of Health to institute some form of public scavenging.

Refuse Destructors.—Destructors have been provided in 30 districts, which are shown on Table "I." The provision of refuse destructors is strongly urged by the Medical Officers of Health of Denton, Great Crosby, Newton-in-Makerfield, Norden, Orrell, and Rishton.

House Drainage, Sewerage, and Sewage Disposal.—A statement as to the character and sufficiency of the arrangements for the drainage, sewerage, and sewage disposal in all parts of the district is required by the Ministry of Health's memorandum as to contents of district health reports to be included in each report.

In this County a large area comes under the jurisdiction of the Mersey and Irwell and the Ribble Watershed Committees as regards the means of sewage treatment and disposal.

The necessity of providing additional sewers, or extending the existing systems, is referred to in many reports; and probably the urgency of this provision will be accentuated in those districts where large housing schemes are contemplated. Reference is also made in certain districts to the polluted condition of streams.

The following areas or townships are reported by district Medical Officers of Health as being without proper drainage systems:—

Urban Districts. Area Without Proper Drainage System.

Accrington (B.) ... Higher Baxenden.

Aspull ... Hindley Mill—4 cottages.

Atherton ... Small portions of outlying district.

Audenshaw... ... Hanover Street South and Stelfox Lane.

Brierfield ... Marsden Heights.

Chadderton ... About 600 acres in the outlying districts.

Chorley (B.) ... Outlying farms—"not possible to connect."

Clitheroe (B.) ... Outlying agricultural land, beyond reach of present sewerage system.

Croston ... Drinkhouse Lane and Grape Lane.

Urban Districts. Area Without Proper Drainage System.

Dalton-in-Furness.... Outlying dwellings.

Droylsden ... Portion of Greenside.

Eccles (B.) ... Eight houses at Westwoods and three at Barton Moss end of borough.

Failsworth ... A few isolated cottages in the fields.

Formby ... Freshfield and a part of Formby.

Great Crosby ... A small area.

Haslingden (B.) ... A few isolated places.

Haydock ... Two small areas containing 25 and 43 houses respectively.

Hindley ... Platt Bridge.

Horwich ... Factory Hill, Foxholes, &c.

Litherland ... About 50 per cent. agricultural land.

Little Hulton ... A number of areas in different parts of the district.

Little Lever ... Dove Bank and Leadbeater Fold.

Middleton (B.) ... Birch End and Bowlee.

Milnrow ... Burnedge.

Newton-in-Maker-

field ... Parts of agricultural areas.

Norden ... Lanehead and Red Lumb (two small hamlets).

Orrell ... A few houses in Brook Lane and Oxhouse Road.

Oswaldtwistle ... Knuzden and Cross Edge.

Poulton-le-Fylde ... Little Poulton.

Prestwich ... Simister Lane area.

Radeliffe ... About 93 houses in Starling district.

Royton ... Booth Hill Lane, Thorp, and Thorp Clough.

St. Annes-on-the-

Sea ... Rural parts drain into cesspools.

Skelmersdale ... Small area which new sewerage scheme will include.

lxxvi.

Area Without Proper Drainage System. Urban Districts. Standish-with-Lang-... Only scattered houses. Swinton and Pendle-... Forty houses at Langley Road, Pendlebury bury. ... Part of East Ward. Thornton ... Hawkshaw and Greenmount district. Tottington Tyldesley-with-Shakerley ... Thirty houses at Parr Brow. ... Roby Mill. Upholland Several isolated farms. Urmston ... Walton-le-Dale ... Outlying districts. Whitefield Park Lane—new scheme sanctioned by Ministry of Health. ... Rural area on the north-drainage in-Widnes (B.) sufficient for w.c. system. Withnell ... Ollerton Terrace. Rural Districts. Barton-upon-Irwell., Portions of Davyhulme, Flixton, and Clifton. ... Higham, Old Laund Booth, Foulridge Burnley (detached), and Cliviger. ... The more rural parts of all the townships. Bury ... Several townships. Chorley Clitheroe ... Aighton, Bailey and Chaigley, Little Bowland, Little Mitton, Chipping, Leagram, Pendleton, Downham, and Hurst Green. Fylde ... Treales, Wharles, and part of Warton. Garstang ... All townships except six. Lancaster Overton, Priest Hutton, Silverdale, Yealand Conyers, and Yealand Redmayne. Limehurst Alt, Hartshead, Little Moss, and Wood-

houses.

Rural Districts. Area Without Proper Drainage System.

Lunesdale ... Over Kellet.

Preston ... Penwortham, Longton, Little Hoole, Goosnargh, Whittingham, Wood-

plumpton, and Dutton.

Sefton ... Certain areas all over district.

Warrington ... Poulton-with-Fearnhead.

West Lancashire ... All except Aughton and parts of Bickerstaffe and Tarleton.

Whiston ... Cronton, Tarbock, Knowsley, Speke, and parts of others.

Wigan ... Wrightington, Shevington, Parbold,
Dalton, Worthington, and part of
Haigh.

Water Supplies.—Very few developments are reported. Deficient or unsatisfactory water supplies are reported in a number of districts, principally rural areas, for instance:—Clitheroe (R.), the smaller hamlets and many farms have a supply which is neither good nor accessible; Chorley (R.), there has been a great shortage of water in Coppull for some years; Fylde (R.), insufficient supply at Treales and Wharles; Preston (R.), inadequate supply to the townships of Woodplumpton, Lea, and Cottam; Whiston (R.), outlying parts have to rely on surface wells liable to serious contamination.

In July, 1919, a report on the presence of lead in the public water supplies of Standish-with-Langtree, and the township of Shevington in the Wigan rural district, was presented by the County Medical Officer of Health to the County Public Health and Housing Committee, and certain recommendations were forwarded to the local Health Authorities concerned.

Water Power Resources Committee.—In October, 1919, the terms of reference of a Committee with the above title, which had been appointed in June, 1918, to examine and report upon the Water Power Resources of the United Kingdom, were extended to include "what steps should be

taken to ensure that the water resources of the country are properly conserved and fully and systematically used for all purposes."

In their second Interim Report (June, 1920) the Committee make certain recommendations of interest to Public Health Authorities, for instance:—

There should be established a controlling Water Commission having jurisdiction over England and Wales, and upon whom should be conferred certain statutory powers and duties, among the principal of which should be :—

The compilation of proper records of the water resources and present and future water requirements of the country;

The allocation of these water resources in the general interests of the community, and powers to re-adjust existing allocations of water where hardship or anomalies are clearly shown to exist;

To consider the development of rivers as a whole from source to mouth from the point of view of water interests, and when necessary to initiate legislation for securing such development, &c.

Shops Acts, 1912 and 1913.—The Order of H.M. Secretary of State, under the Defence of the Realm (Consolidation) Regulations, which fixed the hours of closing of shops, continued in force throughout the year 1919.

Three applications for Orders under the Shops Act, 1912, were dealt with by the County Inspector (Mr. J. E. Gee, of the County Public Health Department). In two instances Half-holiday Closing Orders were made by the County Council, but were not confirmed by the Secretary of State until June, 1920. In the other case it was not necessary to make an order, as the advantages sought under the application were obtained under the existing Defence of the Realm Regulations.

Sixteen infringements of the Shops Acts, or Orders made thereunder, were dealt with during the year; in each instance cautions were administered.

Midwives Acts 1902 and 1918.—The number of certified midwives on the Register of the Administrative County on the 31st December, 1919, was 687.

During the year the names of 50 women were removed from the Register for the following reasons:—death 12, left County area 10, ceased to practise 28. The names of 68 midwives commencing to practise were added.

The tabular statement below shows the qualifications of the women on the Register:—

Obstetrical Society of London	33
Coombe Lying-in Hospital and Guinness'	
Dispensary, Dublin	2
Rotunda Hospital, Dublin	1
Liverpool Ladies' Charity and Lying-in	
Hospital	20
St. Mary's Hospitals, Manchester	27
Certificate (by examination) of Central	
Midwives Board	308
In boná-fide practice, July, 1901	296
Total	687

Of these, 633 were practising, while 54 had temporarily ceased to act.

In the year 1905 there were 876 of the bonå-fide type of midwife on the County Register, 83 per cent. of the total, but these have now been reduced to 296, or 43 per cent.

The number of certified midwives, with addresses within the Administrative County area on the Official Roll of the Central Midwives Board, is 1,928. RECORDS FROM MIDWIVES.—The statement below shows the number of records of sending for medical help received during 1919, the number of still-births reported, and the number of deaths of mother or child before the attendance of a medical practitioner:—

MEDICAL HELP RECORDS :—	
(1) In all cases in which a woman during pregnancy,	
labour, or lying-in, appears to be dying or	
is dead	
(2) Pregnancy—	
Deformity or stunted growth	1
Loss of blood	34
Abortion or threatened abortion	139
Excessive sickness	4
Puffiness of hands or face	3
Fits or convulsions	1
Dangerous varicose veins	5
Purulent discharge	- 4
Sores of the genitals	-
Other abnormalities or complications	38
(3) Labour—	
Eita an annualainna	12
A1	2
0 1.1	
A malpresentation Presentation other than the uncomplicated	174
the state of the s	113
	2
Where no presentation can be made out Where there is excessive bleeding	56
Where two hours after the birth of the child	00
the placenta and membranes have not	
	112
In cases of serious rupture of the perinæum	112
or of other injuries of the soft parts	487
Other complications, including obstructed	20
labour, uterine inertia, or requiring	
instrumental assistance	85

lxxxi.

(4) Lying-in—	
Fits and convulsions	_
Abdominal swelling and tenderness	2
Offensive lochia, if persistent	
Rigor with raised temperature	6
Rise of temperature above 100·4°F. with	
quickening of the pulse for more than	
24 hours	105
Unusual swelling of the breasts with local	
tenderness or pain	1
Secondary post-partum hæmorrhage	8
White leg	_
Unsatisfactory progress or complications	36
and the second s	
(5) The Child—	
Injuries received during birth	6
Any malformation or deformity endanger-	lis sil
ing the child's life	21
Dangerous feebleness	232
Inflammation of, or discharge from, the	
eyes, however slight	299
Serious skin eruptions, especially those	
marked by the formation of watery	
blisters	9
Inflammation about, or hæmorrhage from,	
the navel	2
Complications	125
Wetel	2770
Total	2779
es as a second of the second o	DE
TILL-BIRTHS :—	
Males	196
Females	185
49 486 48 48	
Total	381
dentiles for the party of the p	

DEATHS OF MOTHER OR CHILD BEFORE ATTENDANCE OF A MEDICAL PRACTITIONER:—

Mother				 	6
Child				 	52
					-
	Γ	otal	10.	 	58

The following table compares the number of Records, &c., received from certified midwives during the year 1919, with preceding years:—

DBmediantyund	1919.	1918.	1917.	1916.	1915
Records of sending for medical help Still-births Male Female Deaths of Mother or Child	2779 (96) (85) 381		2271 201 361	2502 2502 229 397	239 239 225 167 392
of a medical practi- tioner Mother	6 52 58	41} 45	5 42	4 48	10) 34

PUERPERAL FEVER.—The number of cases of "puerperal fever" reported during 1919, in connection with the administration of the Midwives Act, was 75.*

* After the end of the year, in the preparation of the Annual Report statistics, 3 additional cases were found, making a total of 78, as shown on notification table, page lxi.

The table below contrasts 1919 with the preceding four years:—

	Cases	Death	6.	Case Mortality	Attack Rate er 1,000 births.	
1919	75	 *33		42.8	 2.60	
1918	49	 †22		44.0	 1.80	
1917	59	 . 17		28.8	 2.07	
1916	94	 ‡26		27.3	 2.87	
1915	93	 31		33.3	 2.68	

^{*} Includes 2 deaths of cases notified in previous year.

[†] Includes death of a case not notified.

[#] Includes death of a case notified in previous year.

The preceding mortality totals do not coincide with the above deaths classified by the Registrar-General under the term "puerperal fever," which in 1919 aggregated 57. This apparent discrepancy is due to the fact that the Registrar-General in his statistics assigns to the term "puerperal fever" certain forms of disease of the puerperal state, which are not usually reported by medical practitioners under the Notification Act.

In the following statement, the notified cases of puerperal fever are classified, distinguishing those in which midwives were concerned:—

		19	19.		1918.				
	Cases.	D	eaths.	rate er cent-	Cases.		Death	hs.	Mortality rate per cent.
Cases attended at child- birth solely by certi-									
fied midwives	37	*	16	 42.1	22		9		40.9
Cases in which midwives acted as nurses under the super-									
vision of medical practitioners			6	 42.8	13		6		46.1
Cases in which certified midwives were not									Diese
in attendance	24		*11	 44.0	14		†7		46-6

^{*} Includes death of case notified in previous year. † Includes death of a case not notified.

The cases which occurred in the practice of midwives were carefully investigated. In addition, enquiries were made into 111 cases of rise of temperature or rigor.

Charges of Negligence, Misconduct, &c.—Fifty-one charges of negligence or misconduct were preferred against midwives during the year, against 31 in the previous year. The action taken is shown in the table on the following page. In addition, a number of minor breaches of the Rules came under notice and were suitably dealt with.

oils white languages		R	esult of a	ction take	n.
to be start to be seen	Total No. of charges.	Struck off the Roll.	Sur- rendered Certifi- cate and name removed from Roll.	Severely cen-	Cau- tioned.
Puerperal fever cases	11			2	9
Ophthalmia neonatorum cases	97			5	32
Other offences	3			2	1

Ophthalmia Neonatorum.—By notifications under the Public Health (Ophthalmia Neonatorum) Regulations, and by medical help records forwarded by midwives, 447 cases of ophthalmia neonatorum, or inflammation of the eyes, came under notice, against 317 cases in the previous year. All cases occurring in the practice of midwives were investigated. In 37 instances, as shown above, the midwives had been so negligent as to necessitate a report of their conduct to the Midwives Act Committee.

MIDWIVES ACT, 1918.—This Act came into operation on the 1st January, 1919.

Section 14 provides for the payment by the Local Supervising Authority of fees (according to a scale fixed by the Local Government Board) of medical practitioners summoned in cases of emergency by certified midwives. The Local Supervising Authority is empowered to recover such fee from the patient, or her husband, or other person liable to maintain her, unless it is shown that such person is unable by reason of poverty to pay such fee.

Seventy-five such claims for payment were received from medical practitioners during the year, the amount involved being £136 8s. 6d. A portion of this amount has been recovered.

By Section 7 the Local Supervising Authority is required to supply to certified midwives all forms and books which they must fill up or use in their practice, and the whole of the midwives practising in the County area were supplied by the County Public Health Department with the following:—

Register of cases.

Daily record of pulse and temperature.

Forms of sending for medical help.

Forms of notification of still-birth.

- ,, death of mother or child.
- ,, having laid out a dead body.
- ,, ,, liability to be a source of infection.
 - ,, whenever it is proposed to substitute artificial feeding for breast feeding.

A supply of envelopes to be used in sending the copy records to the County Offices, Preston.

At the end of the year the midwives were refunded the sum incurred by them in postage.

Under Section 6, two applications from midwives for compensation for loss of practice, owing to suspension in order to prevent the spread of infection, were dealt with.

TRAINING OF MIDWIVES.—On the 30th September, 1919, the Ministry of Health issued to all Supervising Authorities under the Midwives Acts a circular (No. 10) with reference to the training of midwives and grants in aid of such training. These grants will be made under "The Board of Education (Midwives' Training) Regulations, 1919," in aid of the training

of intending and practising midwives at recognised residential Institutions.

Sale of Food and Drugs Acts.—The County Analyst (Mr. Collingwood Williams, B.Sc., F.I.C.), in his report for the year 1919 to the Public Health and Housing Committee, states that 4,848 samples have been submitted for analysis during the year, of which 4,530 were from the County Police, 317 from Local Authorities, and 1 from a private purchaser.

Of the samples submitted by the Police, 562 were adulterated or not up to standard, being 12·40 per cent. of the number taken, as compared with 13·29 per cent. in 1918. The percentage of adulterated samples varies from 6·3 per cent. in the Blackburn Higher Division to 21·4 per cent. in the Lonsdale South Division.

Of the samples submitted by Local Authorities, 46, or 14.51 per cent. were reported against.

The greater proportion of the above cases were of too slight a character to justify legal proceedings, the percentage of serious cases being only 5·16 per cent., as compared with 6·03 per cent. in 1918.

Milk.—Three thousand and fourteen samples (62·2 per cent. of the total samples taken) were purchased as milk or skimmed milk, 1 as "diluted milk," and 1 was described as "swill."

The number of adulterated, deficient, or dirty samples was 508, or 16.85 per cent., as compared with 16.05 per cent. in 1918.

The character of the adulteration in the condemned samples was as follows:—

Nature of Adulteration.	Pe	rcentage of san 1919.	nples analysed. 1918.
Added water exceeding 4%		2.55	4·10
Do. less than 4%		3.55	4.04
Fat deficiency exceeding 10%		2.32	1.62
Do. less than 10 %		3.81 6.13	2.50 4.12
Cowdung exceeding 5 parts by		1.89	1.31
volume per 100,000 Do. exceeding 2 parts, bu	ıt	6.10	4.71
not exceeding 5		4.21)	3.40
Dirt other than cowdung		0.06	0.03
Formaldehyde preservative	***	0.13	0.03

The seriously watered milks show a large decrease in numbers as compared with 1918, which was, however, an exceptionally bad year for watered milks.

44 samples contained from 4 to 10% added water, 30 samples contained from 10 to 20% added water, and 3 samples contained 33, 33, and 38% added water respectively.

The more serious cases of fat deficiency show an increase as compared with 1918, which was, however, one of the best years in recent times in this respect.

43 samples showed a deficiency from 10 to 15%,

20 samples showed a deficiency from 15 to 30%,

6 samples showed a deficiency from 30 to 45,%

and 1 sample showed a deficiency of 88%.

Both as regards added water and fat deficiency, the present year's figures are about the average of the past eight years.

All the milk samples have been examined for cowdung and other dirt. The total number of samples contaminated with cowdung is greater than in 1918. This applies particularly to amounts under 7 parts by volume per 100,000, samples dirtier than this being distinctly less frequent than was the case last year. The very dirty samples met with some years ago seldom occur now.

The average composition of the milk purchased for analysis in the County for the past three years is shown in the following table:—

		243	% Fat	t.	% Non-fatty Solids.				
Month.		1917.	1918.	1919.	1917.	1918.	1919.		
January		 .3.74	3.72	3.60	8.87	8.92	8.81		
February		 3.77	3.64	3.66	8.72	8-87	8.91		
March		 3.53	3.60	3.59	8.70	8-85	8.91		
April		 3.67	3.61	3.62	8.63	8-83	8.92		
May		 3.69	3.53	3.41	8.69	8.87	8.94		
June		 3.54	3.51	3.39	8.83	8.87	8.85		
July		 3.63	3.54	3.58	8.69	8.77	8.86		
August		 3-62	3.69	3.61	8.77	8.86	8.67		
September		 3.83	3.78	3.84	8.86	8.88	8.94		
October		 3.81	3.90	3.88	9.06	8.75	8-98		
November		 3.85	3.90	3.89	8.91	8.84	9.07		
December		 3.72	3.64	3.62	8.93	8.83	8.96		
Annual Average		 3.71	3.67	3.65	8.81	8-84	8.91		
No. of Samples	lai bei	2869	3396	2993	2869	3396	2993		

TABLE J.—GIVING DETAILS OF THE SAMPLES TAKEN IN THE ADMINISTRATIVE COUNTY DURING 1919.

DIVISION.	Milk.	Marg	garine.	La	rd.	Spice	s and ments	9.1		Arti		Dru	igs.	Tot		Percentage of Adulterate Samples.
	* †	*	1 †	*	†	*	†	*	†	*	†	*	†	*	†	
onsdale North	36 13	8	1	13		11		7	1	45	1	0		120	16	13.3
onsdale South	52 22	1		1		13		0		43	2	2		112	24	21.4
larstang	52 8	0		5		14		0		15		0		86	8	9.3
irkham	96 17	0		0		22		-0		54	3	12	1	184	21	11.4
Blackburn Lower	1144 24	0		0		16	2	3	1	48	4	0		211	31	14.7
Slackburn Higher	124 17	0		18		57	2	0		108	1	11		318	20	6.3
hurch	108 17	3		4	1	14		7		35	1	5		176	19	10.8
ossendale	135 11	0		0		0		0		0		0		135	11	8.1
eyland	132 13	22		22		22		0		83	8	6		287	21	7.3
Solton	200 21	2		30		36		1		28		0		297	21	7.0
sury		0		9		25	1	0		49		0		271	28	10.3
ochdale		37		33		17	2	5	4	44		0		380	65	17.1
shton-under-Lyne		9		3		11	1	11	7	26	1	2		232	32	13.8
Ianchester	406 75	4		5		50	3	20	7	78	1	13	4	576	90	15.6
eaforth	151 32	0		0		0		0		0		0		151	32	21.2
rmskirk	62 14	4		2		25	2	2		33	1	0		128	17	13.2
Prescot	41 6	1		3		13	1	0		33	1	9		100	8	8.0
Vidnes	36 4	10		6		20		9	1	38	3	0		119	8	6.7
Varrington	213 30	1 7		6		7		50	13	9		0		292	43	14.7
Vigan	157 31	6		1		36	3	0		155	13	0		355	47	13.2
ounty Police	2747 464	114	1	161	1	409	17	115	34	924	40	60	5	4530	562	12.40
ocal Authorities		5		0		22	2	0		18.	1	4		317	46	14.51
ther Purchasers	1 1													1	1	
Totals	3016508	119	1	161	1	431	19	115	34	942	41	64	5	4848	609	
10000		1				(a)				(b)		(c)				
ercentage of Adulteration	16.84	0	-84	0	62	4	•40	29	9.56	4	1 ⋅35	7.	81	12	.56	

* No. of Samples.

+ No. Adulterated.

! Includes 1 sample sold as "Diluted Milk," and 1 sample of "Swill."

The 317 samples taken by Local Authorities include—Boroughs of Darwen 18, Middleton 74, and Nelson 30; Urban District Councils of Chadderton 27, Horwich 20, Lytham 12, St. Annes-on-the-Sea 12, Stretford 79, and Westhoughton 45.

(a) Allspice 1, Cayenne 5, Ginger 163, Ground Nutmeg 1, Mixed Spice 2, Mustard 36, Pepper 206, Pudding Spice 4, Sauce 1, Vinegar 12; total 431.

(b) Arrowroot 34, Baked Beans (with Pork and Tomato Sauce) 2, Baking Powder 88, Beef and Malt Wine 1, Bread 1, Butter 18, Cake and Bun Flour 14, Carbonate of Soda 8, Caraway Seeds 1, Cheese 22, Cocoa 66; Cocoa, Sugar and Milk 1; Coffee 216, Coffee and Condensed Milk 1; Coffee, Sugar and Milk 1; Condensed Milk Cocoa 3, Cornflour 13, Cream of Tartar 44, Crushed Linseed 4, Custard and Pudding Powder 51, Dripping 1, Egg Powder 20, Flour 14, Ground Almonds 24, Ground Rice 35, Jam 6, Jelly 1, Lemon Cheese 2, Lobster Paste 2, Marmalade 4, Oatmeal 20, Olive Oil 3, Pearl Barley 22, Potted Meats 8, Raw Beef 3, Rice 36, Rice Flour 1, Sago 12, Sarsaparilla Wine 1, Sausages 2, Savoury Paste 2, Self-raising Flour 26, Shrimp and Salmon Paste 2, Soup Powder 4, Sugar 2, Sugar Substitute 1, Sweets 8, Syrup 1, Tapioca 10, Tartaric Acid 5, Tea 58, Tea, Sugar and Milk 1; Tinned Fish 1, Tinned Milk 4, Tinned Tongue 1, Treacle 1, Whiskey 2, Yeast 7; total 942.

(c) Alum 1, Balsam of Linseed 1, Boracic Acid 2, Borax 1, Carbonate of Magnesia 1, Castor Oil 2, Chlorate of Potash Lozenges 1, Comfrey Leaves and Root 3, Epsom Salts 33, Friar's Balsam 1, Glycerine 2, Gregory Powder 2, Health Salts 1, Liquorice Powder 7, Liver Salts 2, Magnesia 1, Quinine 1, Vaseline 1, Zinc Ointment 1; total 64.

TABLE E. SHOWING THE ST. INSE OF PROSECUTIONS TAKES OF PROSECUTIONS THE SALES OF PROSECUTIONS OF PROSECUTIONS OF PROSECUTIONS OF PROSECUTIONS OF PURISHED PURING THE YEAR 1919.

			March March March
			towed and the
			Shotban Higherband
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TABLE K.—SHOWING THE NUMBER OF PROSECUTIONS TAKEN IN THE ADMINISTRATIVE COUNTY UNDER THE SALE OF FOOD AND DRUGS ACTS, MILK (WINTER PRICES) ORDER, AND BEER (PRICES AND DESCRIPTION) ORDERS, ARISING, OUT OF SAMPLES PURCHASED DURING THE YEAR 1919.

	Number	Number Convicted	Number Withdrawn.	Number of	ber of Dismissals.			
DIVISION.	Prosecutions. to Pa	or Ordered to Pay Costs.		On Warranty.	For other Reasons.		losts	
						2	g	d.
Lonsdale North	2				2	~		
Lonsdale South	0							
Garstang	0							
Kirkham	0							
Blackburn Lower		7	1		V	87	14	10
Blackburn Higher								
Church		1				4	16	0
Rossendale								
Leyland		2				11	6	5
Bolton	1000	4				19	17	0
Bury		6		***		28	19	9
Rochdale	24	21	1		2	145	1	6
Ashton-under-Lyne	8	7			1	25	0	0
Manchester	22	15	3	1	3	74	15	6
Seaforth	7	6			1	26	18	6
Ormskirk		4				30	14	7
Prescot		2			75.00	2	15	6
Widnes		1				1	2	2
Warrington		14	1		2	137	17	0
Wigan		8			ĩ	46	3	10
County Police	117	98	6	1	12	643	2	7
Local Authorities	9	8			1	18	17	8
Totals	. 126	106	6	1	13	662	0	3

As usual, this table illustrates the fact that the average quality of the milks taken for analysis is throughout the year much above the statutory limits of 3·0 per cent. fat and 8·5 per cent. non-fatty solids, in spite of the inclusion of many adulterated samples.

Table "J" appended gives details of the articles analysed and the number of adulterations.

Prosecutions numbered 126, and the total amount of fines and penalties was £662 0s. 3d. Details are shown on Table "K." In the year 1918 there were 151 prosecutions, and the fines, &c., amounted to £902 9s. 7½d.

As usual, this table illustrates the fact that the everage quality of the milks taken for analysis is throughout the year reach above the statuters limits of 3.0 per cent, fat and 3.5 per cent, non-latty solids, in spite, of the inclusion of many adotterated escapies

Davidana estrictes of the attack wing teleproper 'U' oldate'

Proceedings numbered 120, and the total atount of fines and penetities was 2002 0s. 3d. Details are shown on Table "K" in the year 1918 there were Lil proceedious, and the lines, etc., amounted to 2002 9s. 75d.

ADMINISTRATIVE COUNTY OF LANCASTER.

BIRTH AND DEATH RATES

OF THE

URBAN AND RURAL DISTRICTS

FOR THE YEAR 1919,

COMPARED WITH THE RATES FOR THE YEAR 1918, AND WITH THE MEAN OF THE 10 YEARS 1909-1918.

AUSTRACTIVE COUNTY OF LANCASTER

BINTH AND DEATH RATES

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URBAN AND RURAL DISTRICTS

FOR THE YEAR 1919,

Companies were rest Harris for the 1918, and wirth

URBAN DISTRICTS.

Abram.—	2.12	PER 1,00	0 OF POPULA	TION.	Rate of Deaths
	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate	under 1 year to 1,000 Births.
1919	. 21.8	15.2	0.16	0.96	91
1918	. 24.1	16.2	1.69	1.01	112
Mean of 10 years 1909-1918	. 27.1	14.7	2.17	0.71	126
Increase or Decrease in 1919 on—					
Previous Year	.—2.3	-1.0	-1.53	-0.05	-21
Ten Years' Average	5.3	+0.5	-2.01	+0.25	-35
Accrington (Borough).					
1919	. 14.0	15.4	0.48	0.66	114
1918	. 13.6	15.0	0.57	1.05	93
Mean of 10 years 1909-1918	. 17.4	13.9	0.95	0.89	110
Increase or Decrease in 1919 on—					
Previous Year	.+0.4	+0.4	-0.09	-0.39	+21
Ten Years' Average	3.4	+1.5	-0.47	-0.23	+4
Adlington.—					
1919	. 24.1	10.9	0.47	0.71	47
1918	. 17.2	13.2	0.79	1.05	68
Mean of 10 years 1909-1918					
Increase or Decrease in 1919 on—					
Previous Year					
Ten Years' Average	.+2.8	-0.7	-0.44	-0.10	-32

Ashton-in-Makerfield.—	PER 1,00	0 OF POPUL	ATION.	Rate of
Birth- rate.	Death-	Epidemic Death- rate.	Phthisis Death- rate.	Deaths under I year to 1,000 Births.
1919 23.0	13.4	0.84	0.98	103
1918 24.2	17.6	2.83	0.48	106
Mean of 10 years 1909-1918 28.4	14.7	2.42	0.67	126
Increase or Decrease in 1919 on—				
Previous Year1.2	-4.2	-1.99	+0.50	-3
Ten Years' Average5-4	-1.3	-1.58	+0.31	-23
Ashton-under-Lyne (Borough).—				
1919 18:0	17.1	0.41	0.96	119
1918 16:3	20.0	0.83	1.66	121
Mean of 10 years 1909-1918 21·0	17.5	1.82	1.42	148
Increase or Decrease in 1919 on—				
Previous Year+1.7	-2.9	-0.42	-0.70	-2
Ten Years' Average3.0	-0.4	-1.41	-0.46	-29
Aspull.—				
1919	15.6	1.09	0.96	132
1918 20.9	23.5	2.51	0.97	148
Mean of 10 years 1909-1918 28.5	16.5	2.90	0.78	141
Increase or Decrease in 1919 on—				
Previous Year+3.9	-7.9	-1.42	-0.01	-16
Ten Years' Average—3.7	-0.9	-1.81	+0.18	-9

Atherton.—		PER OF 1,	000 POPULAT	ion.	Rate of Deaths
	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	under 1 year to 1,000 Births.
1919	. 18.2	12.4	1.22	0.56	85
1918	. 19.3	17.9	2.54	0.84	138
Mean of 10 years 1909-1918	. 24.5	14.0	1.90	0.93	128
Increase or Decrease in 1919 on—					
Previous Year	.—l·1	-5.5	-1.32	-0.28	-53
Ten Years' Average	.—6.3	-1.6	-0.68	-0.37	-43
Audenshaw.—					
1919	. 16.8	12.2	0.25	0.50	115
1918	. 16.1	14.2	0.41	0.54	106
Mean of 10 years 1909-1918	. 20.3	13.7	1.22	0.74	130
Increase or Decrease in 1919 on—					
Previous Year	+0.7	-2.0	-0.16	-0.04	+9
Ten Years' Average	.—3.5	-1.5	-0.97	-0.24	-15
Bacup (Borough).—					
	10.1	141	0.10	0.44	101
1919			0.19		101
1918	. 13.1	20.4	1.43	0.95	147
Mean of 10 years 1909-1918	. 17.4	16.7	0.96	0.88	114
Increase or Decrease in 1919 on—					
Previous Year					
Ten Years' Average	4.3	-2.6	-0.77	-0.44	-13

Barrowford.—		PER 1	.000 of Por	ULATION.	
Barrowroru.—		16			Rate of Deaths
B B	irth- ate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	under 1 year to 1.000 Births.
1919	10.9	12.9	0.55	0.36	80
1918	9.2	15.0	1.41	0.81	58
Mean of 10 years 1909-1918	17.2	12.5	1.09	0.77	97
Increase or Decrease in 1919 on—					
Previous Year+	1.7	-2.1	-0.86	-0.45	+22
Ten Years' Average					
1 cm 1 cm s 21 cmage	0.0	101	001	0 11	1,
Billinge.—					
1919	8.3	13.1	0.43	1.09	57
1918 2	4.7	17.6	0.68	1.37	90
Mean of 10 years 1909-1918 2	26.3	14.3	1.47	0.74	110
Increase or Decrease					
in 1919 on—					
Previous Year	-6.4	-4.5	-0.25	-0.28	-33
Ten Years' Average	-8.0	-1.2	-1.04	+0.35	-53
Blackrod.—					
1919 1	0.7	16.1	0.51	1.54	144
1918 2				0.88	
Mean of 10 years	0.0	20.1	1.47	0.99	128
1909-1918 2	3.9	13.8	1.65	0.58	119
Increase or Decrease in 1919 on—					
Previous Year	1.8	-4.6	-0.96	+0.66	+16
Ten Years' Average	-5.2	+2.3	-1.14	+0.96	+25

Brierfield.—		PER 1	,000 of Pop	ULATION.	Rate of
	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Deaths under 1 year to 1,000 Births.
1919	11.5	11.3	0.11	1.06	79
1918	11.7	16.4	1.02	1.02	55
Mean of 10 years					
1909-1918	17.4	13.0	1.17	1.01	106
Increase or Decrease in 1919 on—					
Previous Year	-0.2	-5.1	-0.91	+0.04	+24
Ten Years' Average	-5.9	-1.7	-1.06	+0.05	-27
Carnforth.—					church
1919	15.9	12.5	0.31	nil.	132
1918	18-4	16.2	1.69	1.69	65
Mean of 10 years 1909-1918	21.4	11.8	0.67	0.64	73
Increase or Decrease in 1919 on—					
Previous Year	-2.5	-3.7	-1.38	-1.69	+67
Ten Years' Average	-5.5	+0.7	-0.36	-0.64	+59
Chadderton.—					
1919	13.3	13.9	0:35	0.45	126
1918	15.7	20.6	0.99	1.31	117
Mean of 10 years 1909-1918	22.6	15.9	1.50	1.08	115
Increase or Decrease in 1919 on—					
Previous Year	-2.4	-6.7	-0.64	-0.86	+9
Ten Years' Average	-9.3	-2.0	-1.15	-0.63	+11

Chorley (Borough)		PER 1	000 OF POPU	LATION.	Literal P
(Dozougu)	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Rate of Deaths under 1 year to 1,000 Births.
1919	. 16.1	12.8	0.60	0.50	92
1918	. 13.1	18.6	0.81	0.94	108
Mean of 10 years 1909-1918	. 21.4	15.4	1.43	0.96	130
Increase or Decrease in 1919 on—					
Previous Year	.+3.0	$-\!$	-0.21	-0.44	-16
Ten Years' Average	.—5.3	-2.6	-0.83	-0.46	-38
Church.—					
1919	. 18.8	14.8	nil.	0.46	149
1918	. 15.2	15.7	0.66	1.66	116
Mean of 10 years 1909-1918	. 19.1	15.3	0.94	0.93	124
Increase or Decrease in 1919 on—					
Previous Year	+3.6	-0.9	-0.66	-1.20	+33
Ten Years' Average	0.3	-0.5	-0.94	-0.47	+25
Clayton-le-Moors.—					
1919	16.3	13.6	0.23	0.59	159
1918	. 14.4	14.9	0.71	1.07	140
Mean of 10 years 1909-1918				0.77	129
Increase or Decrease in 1919 on—					
Previous Year	+1.9	-1.3	-0.48	-0.48	+19
Ten Years' Average	4.5	-1.0	-0.97	-0.18	+30

Clitheroe (Borough)		PER 1,	000 OF POPU	CLATION.	Rate of
	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Deaths under 1 year to 1,000 Births.
1919	$14 \cdot 1$	13.6	0.16	0.58	107
1918	$13 \cdot 3$	17.0	0.27	1.57	86
Mean of 10 years 1909-1918	18.2	14.0	0.76	1.10	97
Increase or Decrease in 1919 on—					
Previous Year	+0.8	-3.4	-0.11	-0.99	+21
Ten Years' Average	-4.1	-0.4	-0.60	-0.52	+10
Colne (Borough).—					
1919	11.2	12.0	0.34	1.12	121
1918	11.8	16.6	0.98	0.84	91
Mean of 10 years 1909-1918	17.2	13.9	1.28	0.91	122
Increase or Decrease in 1919 on—					
Previous Year	-0.6	-4.6	-0.64	+0.28	+30
Ten Years' Average	-6.0	-1.9	-0.94	+0.21	-1
Crompton.—					
1919	12.2	12.3	0.47	0.80	105
1918	12.8	20.9	0.59	1.42	166
Mean of 10 years 1909-1918	19.6	15.8	1.18	0.97	130
Increase or Decrease in 1919 on—					
Previous Year	-0.6	-8.6	-0.12	-0.62	-61
Ten Years' Average					

Croston.—		PER 1	,000 OF POPU	LATION.	200	
The state of the s	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Rate of Deaths under 1 year to 1,000 Births.	
1919	9.6	14.2	0.52	0.52	52	
1918	9.5	17.4	0.56	0.56	nil.	
Mean of 10 years 1909-1918	. 16.4	12.1	0.83	0.58	66	
Increase or Decrease in 1919 on—						
Previous Year	+0.1	-3.2	-0.04	-0.04	+52	
Ten Years' Average	6.8	+2.1	-0.31	-0.06	-14	
Dalton-in-Furness.—						
1919	. 23.9	14.0	0.23	1.16	77	
1918	. 25.1	20.4	1.10	1.32	125	
Mean of 10 years 1909-1918	. 25.1	15.3	1.12	1.26	105	
Increase or Decrease in 1919 on—						
Previous Year	.—1.2	-6.4	-0.87	-0.16	-48	
Ten Years' Average	.—1.2	-1.3	-0.89	-0.10	-28	
Darwen (Borough)						
1919	. 12.6	13.8	0.18	0.58	115	
1918	. 9.5	21.0	0.51	0.97	. 73	
Mean of 10 years 1909-1918	. 16.0	15.0	0.91	0.79	114	
Increase or Decrease in 1919 on—				no Oli		
Previous Year	.+3.1	-7.2	-0.33	-0.39	+42	
Ten Years' Average	3.4	-1.2	-0.73	-0.21	+1	

Denton.—		PER 1,0	000 OF POP	ULATION.	
	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Rate of Deaths under 1 year to 1,000 Births.
1919	16.4	11.9	0.23	0.40	81
1918	14.4	16.4	0.84	1.09	67
Mean of 10 years					
1909-1918	20.3	14.3	1.00	0.90	117
Increase or Decrease in 1919 on—					
Previous Year	+2.0	-4·5	-0.61	-0.69	+14
Ten Years' Average	-3.9	-2.4	-0.77	-0.50	-36
P 11					
Droylsden.—					
1919	17.8	13.9	0.30	1.21	77
1918	16.7	16.8	0.78	1.17	66
Mean of 10 years 1909-1918	22.2	14.9	1.73	1.19	110
Increase or Decrease in 1919 on—					
Previous Year	+1.1	-2.9	-0.48	+0.04	+11
Ten Years' Average					
Eccles (Borough).—					
1919	15.1	11.1	0.50	0.06	GO
1918					
Mean of 10 years	19.1	19.1	0-70	1.70	10
1909-1918	20.4	13.9	1.27	1.08	101
Increase or Decrease in 1919 on—					
Previous Year	nil	-4.0 -	-0.12	-0.32	-10
Ten Years' Average	-5.3 -	-2.8 -	-0.69	-0.12	- 33

Failsworth.—		PER 1	,000 OF POP	ULATION.	Rate of
	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Deaths under 1 year to 1,000 Births.
1919	. 15.3	11.6	0.41	1.25	78
1918	. 14.0	17.1	0.78	1.04	95
Mean of 10 years 1909-1918	23.0	14.9	1.33	1.24	113
Increase or Decrease in 1919 on—					
Previous Year	+1.3	-5.5	-0.37	+0.21	-17
Ten Years' Average	.—7.7	-3.3	-0.92	+0.01	-35
		*			
Farnworth.—					
1919	. 17.0	16.9	0.64	1.07	127
1918	. 19.3	17.1	1.29	1.33	113
Mean of 10 years 1909-1918	. 21.8	15.2	2.04	0.99	146
Increase or Decrease in 1919 on—					
Previous Year	.—2.3	-0.2	-0.65	-0.26	+14
Ten Years' Average	.—4.8	+1.7	-1.40	+0.08	19
Fleetwood.					
1919	. 18-6	11.4	0.49	0.71	116
1918				1.46	95
Mean of 10 years 1909-1918	. 24.9	13.3	1.24	0.87	101
Increase or Decrease in 1919 on—					
Previous Year	0.5	-6.2	-0.50	-0.75	+21
Ten Years' Average	6.3	-1.9	-0.75	-0.16	+15

Formby.	PER	1,000 or Pop	ULATION.	Rate of
Birth-rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Deaths under 1 year to 1,000 Births.
1919 12-1	14.3	0.72	0.90	28
1918 12-	8 14.9	0.75	0.75	26
Mean of 10 years		DTUS	of 10 ye	DEPOSITE OF THE PARTY OF THE PA
1909-1918 16:	3 10.6	0.65	0.72	52
Increase or Decrease in 1919 on—				
Previous Year0.				
Ten Years' Average4:	2 + 3.7	+0.07	+0.18	-24
Fulwood.				
1919 10-0	6 19.2	0.44	0.88	180
1918 12-	8 25.9	nil.	0.21	44
Mean of 10 years 1909-1918 13·	1 13.3	0.51	0.62	52
Increase or Decrease in 1919 on—				
Previous Year2.	2 -6.7	+0.44	+0.67	+136
Ten Years' Average2.				
Golborne.—				
1919 26-	3 14.2	0.28	0.28	104
1918 19-	6 14.1	1.41	0.62	85
Mean of 10 years 1909-1918 27-				
Increase or Decrease in 1919 on—	200	and the same	CL TO ME	annel .
Previous Year+6.	7 +0.1	-1.13	-0.34	+19
Ten Years' Average1:				

Grange-over-Sands.—		PER	1,000 OF POP	ULATION.	Rate of
	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Deaths under 1 year to 1,000 Births.
1919	. 8.9	15.4	nil.	0.55	nil.
1918	. 8.9	21.0	0.52	2.10	157
Mean of 10 years 1909-1918	. 9.1	12.5	0.38	1.26	51.
Increase or Decrease in 1919 on—					
Previous Year	. nil.	-5.6	-0.52	-1.55	-157
Ten Years' Average	0.2	+2.9	-0.38	-0.71	-51
Great Crosby.—					
1919	. 16.1	10.3	0.53	0.69	- 86
1918	. 15.8	12.9	0.47	1.03	80
Mean of 10 years 1909-1918	. 18-2	10.5	0.73	0.59	78
Increase or Decrease in 1919 on—					
Previous Year	+0.3	-2.6	+0.06	-0.34	+6
Ten Years' Average	-2.1	-0.2	-0.20	+0.10	+8
Great Harwood.—					
1919				0.52	67
1918	11.6	16.2	0.33	0.91	127
Mean of 10 years 1909-1918	17.5	12.0	0.68	0.73	94
Increase or Decrease in 1919 on—					
Previous Year	+3.4	3.6	-0.18	-0.39	-60
Ten Years' Average	-2.5	+0.6	-0.53	-0.21	-27

Haslingden (Borough)		PER 1	000 of Popu	LATION.	Rate of
	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Deaths under 1 year to 1,000 Births.
1919	. 11.8	15.2	0.45	0.51	130
1918	. 11.3	15.3	0.90	1.16	71
Mean of 10 years	150	110	0.00	0.00	110
1909-1918	. 15.8	14.8	0.90	0.98	116
Increase or Decrease in 1919 on—					
Previous Year					
Ten Years' Average	4.0	+0.4	-0.45	-0.47	+14
Haydock.—					
1919	. 29.4	14.6	0.72	1.54	94
1918	. 29.6	19.6	3.02	1.16	153
Mean of 10 years 1909-1918	. 30.1	15.2	2.35	0.71	135
Increase or Decrease in 1919 on—					
Previous Year	0.2	-5:0	-2.30	+0.38	-59
Ten Years' Average	0.7	-0.6	-1.63	+0.83	-41
Heysham.—				iloi	
1919					
1918	. 11.7	19.2	0.27	0.27	104
Mean of 10 years 1909-1918	. 12.9	13.6	0.33	0.72	68
Increase or Decrease in 1919 on—					
Previous Year	.—1.0	-2.5	-0.27	+0.82	-80
Ten Years' Average	.—2.2	+3.1	-0.33	+0.37	-41

Heywood (Borough)		PER	1,000 GF POI	PULATION.	Data
	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Rate of Deaths under I year to 1,000 Births.
1919	15.6	13.4	0.34	0.68	81
1918	14.4	22.9	0.54	1.09	112
Mean of 10 years 1909-1918	19.7	17.5	1.27	1.27	130
Increase or Decrease in 1919 on—					
Previous Year	+1.2	-9.5	-0.20	-0.41	-31
Ten Years' Average	4.1	-4.1	-0.93	-0.59	-49
Hindley.—					
1919	. 22.4	13.3	1.01	0.50	99
1918	. 22.8	18.3	1.45	0.68	129
Mean of 10 years 1909-1918	26.9	16.7	2.44	0.83	142
Increase or Decrease in 1919 on—					
Previous Year	0.4	-5.0	-0.44	-0.18	-30
Ten Years' Average	4.5	-3.4	-1.43	-0.33	-43
Horwich.—					
1919	. 16.0	10.9	0.40	0.93	27
1918	. 15.8	15.1	0.62	0.76	98
Mean of 10 years 1909-1918	. 20.0	12.0	1.06	0.81	96
Increase or Decrease in 1919 on—					
Previous Year	.+0.2	-4.2	-0.22	+0.17	71
Ten Years' Average	4.0	-1.1	-0.66	+0.12	-69

Hurst.—		PER	1,000 OF POP	ULATION.	Rate of
	Birth- rate.	Death- rate.	Epidemie Death- rate.	Phthisis Death- rate.	Deaths under 1 year to 1,000 Births.
1919	19.0	13.2	0.38	0.90	58
1918	16.0	17.6	1.20	1.06	125
Mean of 10 years 1909-1918	23.3	16.6	1.50	1.22	125
Increase or Decrease in 1919 on—					
Previous Year	+3.0	-4.4	-0.82	-0.16	-67
Ten Years' Average	4.3	-3.4	-1.12	-0.32	-67
Huyton-with-Roby.					
1919	19.0	13.6	nil.	0.91	68
1918	16.9	18.5	1.18	0.71	137
Mean of 10 years 1909-1918	17.0	12.5	0.63	0.54	81
Increase or Decrease in 1919 on—					
Previous Year					
Ten Years' Average	+2.0	+1.1	-0.63	+0.37	-13
Ince-in-Makerfield.—					
1919	25.3	15.7	0.36	0.77	129
1918	$25 \cdot 3$	20.5	1.70	1.60	111
Mean of 10 years 1909-1918	31.2	18.6	3.07	0.86	152
Increase or Decrease in 1919 on—					
Previous Year					
Ten Years' Average	-5.9	-2.9	-2.71	-0.09	-23

Irlam.—	PER 1,000 OF POPULATION.				
	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Deaths under 1 year to 1,000 Births.
1919	17.6	12.1	0.34	0.34	129
1918	22.6	13.7	0.47	0.82	55
Mean of 10 years 1909-1918	24.9	12.0	1.11	0.60	97
Increase or Decrease in 1919 on—					
Previous Year	-5.0	-1.6	-0.13	-0.48	+74
Ten Years' Average	-7.3	+0.1	-0.77	-0.26	+32
		*			
Kearsley.—					
1919	21.3	15.9	0.64	0.42	91
1918	18.4	17.5	0.57	0.80	122
Mean of 10 years 1909-1918	22.1	14.4	1.58	0.86	136
Increase or Decrease in 1919 on—					
Previous Year	+2.9	-1.6	+0.07	-0.38	-31
Ten Years' Average	0.8	+1.5	-0.94	-0.44	-45
Kirkham.—					
1919	. 13.2	15.7	0.54	0.81	156
1918	. 18.5	17.3	1.22	1.22	58
Mean of 10 years 1909-1918	. 19-7	17.4	1.70	1.42	159
Increase or Decrease in 1919 on—					
Previous Year	5.3	-1.6	-0.68	-0.41	+98
Ten Years' Average	.—6.5	-1.7	-1.16	-0.61	-3

Lancaster (Borough).—	PER 1	Rate of		
Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Deaths under 1 year to 1,000 Births.
1919 17.8	14.6	0.35	1.14	94
1918 15.6	17.2	0.83	1.28	138
Mean of 10 years 1909-1918 19·3	14.2	0.78	1.25	108
Increase or Decrease	112	0.0	1 20	100
in 1919 on—				
Previous Year+2.2	-2.6	-0.48	-0.14	-44
Ten Years' Average—1.5	+0.4	-0.43	-0.11	-14
Lathom and Burscough.—				
1919 19-2	15.1	0.57	0.28	93
1918	22.3	1.75	1.02	144
Mean of 10 years 1909-1918 22-3	14.1	0.83	0.82	93
Increase or Decrease in 1919 on—				
Previous Year+1.2	— 7·2	-1.18	-0.74	51
Ten Years' Average3.1				nil.
Lees.				
1919 15.9	16.5	0.42	0.63	89
1918 16.3	25.6	2.35	0.47	192
Mean of 10 years 1909-1918 21·9	19.2	1.87	0.96	163
Increase or Decrease in 1919 on—				
Previous Year—0.4	-9.1	-1.93	+0.16	-103
Ten Years' Average6.0				

Leigh (Borough)	PER 1,000 OF POPULATION,			Rate of	
Birth-rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Deaths under 1 year to 1,000 Births.	
1919 21.2	15.5	1.43	1.12	101	
1918 20.2	17.8	1.64	1.47	143	
Mean of 10 years 1909-1918 25.0	16.5	2.32	1.20	148	
Increase or Decrease in 1919 on—					
Previous Year+1.0	-2.3	-0.21	-0.35	-42	
Ten Years' Average3.8	-1.0	-0.89	-0.08	-47	
Leyland.—					
1919 14.2	13.0	0.11	1.12	113	
1918 18.4	15.6	1.32	0.72	75	
Mean of 10 years 1909-1918 20-6	13.9	0.95	0.83	98	
Increase or Decrease in 1919 on—					
Previous Year4.2	-2.6	-1.21	+0.40	+38	
Ten Years' Average6.4	-0.9	-0.84	+0.29	+15	
Litherland.—					
1919 24.0	14.9	1.01	1.36	85	
1918 25.8	19.4	1.75	1.75	65	
Mean of 10 years 1909-1918 30·1	15.2	1.93	1.11	115	
Increase or Decrease in 1919 on—					
Previous Year1.8					
Ten Years' Average6·1	-0.3	-0.92	+0.25	-30	

Littleborough.—		PER 1	000 OF POPUI	LATION.	Data of
The same of the same	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Rate of Deaths under 1 year to 1,000 Births.
1919	14.9	16.3	0.26	0.62	. 85
1918	12.7	20.2	0.95	0.66	93
Mean of 10 years 1909-1918	16.5	15.3	0.66	0.91	105
Increase or Decrease in 1919 on—					
Previous Year	+2.2	-3.9	-0.69 -	-0.04	-8
Ten Years' Average	-1.6	+1.0	-0.40 -	-0.29	-20
Little Crosby.—					
1919	19.7	6.8	nil.	nil.	nil.
1918	17.0	17.8	nil.	2.38	125
Mean of 10 years 1909-1918	20.8	10.3	0.43	0.70	52
Increase or Decrease in 1919 on—					
Previous Year	,				
Ten Years' Average	-1.1	-3.5	-0.43 -	-0.70	-52
Little Hulton.—					
1919	17.5	13.6	0.25	1.02	97
1918	17.8	15.3	1.04	0.91	98
Mean of 10 years 1909-1918	23.4	13.7	1.49	1.02	104
Increase or Decrease in 1919 on—					
Previous Year	-0.3	-1.7	-0.79 -	+0.11	-1
Ten Years' Average	-5.9	-0.1	-1.24	nil.	-7

Little Lever.—	PER 1,000 OF POPULATION.				
	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Rate of Deaths under 1 year to 1,000 Births.
1919	14.5	16.0	1.30	0.86	100
1918	13.8	16.2	3.20	0.91	117
Mean of 10 years 1909-1918	19.7	14.7	2.03	0.87	126
Increase or Decrease in 1919 on—					
Previous Year	+0.7	-0.2	-1.90	-0.05	-17
Ten Years' Average					
Longridge.—					
1919	15.6	17.3	0.24	1.73	121
1918		16.1	0.52	0.78	127
Mean of 10 years 1909-1918		15.5	0.94	1.04	138
Increase or Decrease in 1919 on—					
Previous Year	+2.9	+1.2	-0.28	+0.95	-6
Ten Years' Average					-17
Lytham.—					
1919	. 10.0	14.0	1.42	0.40	87
1918	. 10.2	13.0	0.11	0.33	19
Mean of 10 years 1909-1918	. 13.0	12.9	0.63	0.62	68
Increase or Decrease in 1919 on—					
Previous Year	0.2	+1.0	+1.31	+0.07	+68
· Ten Years' Average	3.0	+1.1	+0.79	-0.22	+19

Middleton (Borough)	PER 1,000 OF POPULATION.				Data of
	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Rate of Deaths under 1 year to 1,000 Births.
1919	14.0	14.0	0.54	0.68	76
1918	13.0	17.2	0.86	1.17	80
Mean of 10 years	100				0.14014
1909-1918	19.3	15.1	1.21	1.13	109
Increase or Decrease in 1919 on—					
Previous Year					
Ten Years' Average	.—5.3	—l·1	-0.67	-0.45	-33
Milnrow.—					
1919	. 14.2	13.2	0.37	1.12	67
1918	. 11.9	21.4	2.01	1.20	110
Mean of 10 years 1909-1918	. 16.9	16.0	1.07	0.99	111
Increase or Decrease in 1919 on—					
Previous Year	+2.3	-8.2	-1.64	-0.08	-43
Ten Years' Average	.—2.7	$-\!\!\!\!-\!\!\!2\cdot\!8$	-0.70	+0.13	-44
Managamba (Panaugh)					
Morecambe (Borough).—		The second	-500100		
1919					53
1918	13.4	14.2	0.19	0.84	60
Mean of 10 years 1909-1918	. 13.3	13.7	0.34	0.83	92
Increase or Decrease in 1919 on—					
Previous Year					
Ten Years' Average	.+1.3	+4.1	-0.34	-0.16	-39

Mossley (Borough)		PER 1	,000 of Popt	LATION.	Rate of
	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Deaths under 1 year to 1,000 Births,
1919	17.2	15.3	0.16	0.56	81
1918	13.8	14.9	nil.	0.88	68
Mean of 10 years 1909-1918	18.3	15.4	0.55	1.02	92
Increase or Decrease in 1919 on—					1
Previous Year	$+3\cdot 4$	+0.4	+0.16	-0.32	+13
Ten Years' Average	1.1	-0.1	-0.39	-0.46	-11
Nelson (Borough).—					
1919	9.0	11.6	0.28	0.38	69
1918	9.9	14.9	0.58	0.99	112
Mean of 10 years 1909-1918	15.3	11.5	0.77	0.73	100
Increase or Decrease in 1919 on—					
Previous Year	0.9	-3.3	-0.30	-0.61	-43
Ten Years' Average	6.3	+0.1	-0.49	-0.35	-31
Newton-in-Makerfield.	_				
1919	20.2	13.0	0.57	0.78	106
1918	20.3	15.6	0.53	1.18	62
Mean of 10 years 1909-1918	24.3	13.2	1.47	1.02	103
Increase or Decrease in 1919 on—					
Previous Year					+44
Ten Years' Average	4·1	-0.2	-0.90	0.24	+3

Norden.—	PER 1,000 OF POPULATION.				
	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Deaths under 1 year to 1,000 Births.
1919	$12 \cdot 1$	13.9	0.25	0.51	102
1918	13.2	18.5	0.28	0.84	94
Mean of 10 years 1909-1918	17.6	13.8	0.69	0.88	91
Increase or Decrease in 1919 on—					
Previous Year	-1.1	-4.6	-0.03	-0.33	+8
Ten Years' Average	-5.5	+0.1	-0.44	-0.37	+11
Ormskirk.—					
1919	20.2	18.0	0.75	1.35	85
1918	20.7	19.0	0.48	2.09	90
Mean of 10 years 1909-1918	22.3	15.7	0.89	1.40	100
Increase or Decrease in 1919 on—					
Previous Year :	-0.5	-1.0	+0.27	-0.74	-5
Ten Years' Average					
Orrell.—					
1919	19.5	12.4	0.45	0.90	88
1918	19.8	16.8	0.96	nil.	129
Mean of 10 years 1909-1918	25.5	14.6	2.06	0.75	147
Increase or Decrease in 1919 on—					
Previous Year	-0.3	-4.4	-0.51	+0.90	-41
Ten Years' Average	-6.0	-2.2	-1.61	+0.15	59

Oswaldtwistle.—		PER 1,0	000 OF POPUI	LATION.	Detect.
*	rth-	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Rate of Deaths under 1 year to 1,000 Births.
1919 1	5.9	15.6	0.20	0.48	133
1918 1	5.8	17.4	1.51	1.28	123
Mean of 10 years 1909-1918 2	20.0	14.6	1.20	0.75	120
Increase or Decrease in 1919 on—					
Previous Year+	-0.1	-1.8	-1.31	-0.80	+10
Ten Years' Average	4.1	+1.0	-1.00	-0.27	+13
Padiham.—					
1919	15.2	15.3	0.24	0.88	86
1918	13.1	16.9	1.89	1.04	141
Mean of 10 years		15.5	1.27	1.02	136
Increase or Decrease in 1919 on—					
Previous Year+	-2.1	-1.6	-1.65	-0.16	-55
Ten Years' Average	4.7	-0.2	-1.03	-0.14	-50
Poulton-le-Fylde.—					
1919	15.7	14.0	0.40	nil.	73
1918	12.1	19.9	0.42	2.12	nil.
Mean of 10 years 1909-1918	16-1	13.5	0.36	0.48	85
Increase or Decrease in 1919 on—					
Previous Year	+3.6	-5.9	-0.02	-2.12	+73
Ten Years' Average	-0.4	+0.5	+0.04	-0.48	-12

Preesall.—		PER 1	,000 or Popt	ULATION	Rate of
	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Deaths under 1 year to 1,000 Births.
1919	18.0	12.9	nil.	0.64	68
1918	10.7	14.1	nil.	0.67	55
Mean of 10 years 1909-1918	17.9	11.1	0.52	0.39	74
Increase or Decrease in 1919 on—					
Previous Year	+7.3	-1.2	nil.	0.03	+13
Ten Years' Average	+0.1	+1.8	-0.52	+0.25	-6
Prescot.—					
1919	20.6	15.4	0.81	1.04	97
1918	21.5	18.7	3.74	1.74	108
Mean of 10 years 1909-1918	27.8	16.0	2.27	1.13	110
Increase or Decrease in 1919 on—					
Previous Year	-0.9	-3.3	-2.93	-0.70	-11
Ten Years' Average	-7.2	-0.6	-1.46	-0.00	-13
Prestwich.—					
1919	13.4	14.4	0.52	1.36	60
1918	11.6	14.9	0.63	1.54	59
Mean of 10 years 1909-1918	18.8	12.3	0.69	0.90	74
Increase or Decrease in 1919 on—					
Previous Year	+1.8	-0.5	-0.11	-0.18	+1
Ten Years' Average	-5.4	+2.1	-0.17	+0.46	-14

Radcliffe.—	PER 1,000 OF POPULATION.					
	Birth.,	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Rate of Deaths under 1 year to 1,000 Births.	
1919	. 15.1	18.3	0.89	0.93	102	
1918	. 14.7	16.5	0.68	1.23	83	
Mean of 10 years 1909-1918	. 17.7	15.0	1.02	0.88	122	
Increase or Decrease in 1919 on—						
Previous Year	+0.4	+1.8	+0.21	-0.30	+19	
Ten Years' Average	2.6	+3.3	-0.13	+0.05	-20	
Rainford.—						
1919	. 19.1	12.0	nil	nil.	45	
1918	. 22.5	14.2	0.64	0.64	12	
Mean of 10 years 1909-1918	. 25.7	12.8	0.70	0.38	76	
Increase or Decrease in 1919 on—						
Previous Year	.—3.4	-2.2	-0.64	-0.64	+33	
Ten Years' Average	6.6	-0.8	-0.70	-0.38	-31	
Ramsbottom.—						
1919	. 13.7	14.3	0.40	0.74	71	
1918	. 11.1	17.0	0.66	0.74	88	
Mean of 10 years 1909-1918	. 15.8	14.6	0.93	0.98	100	
Increase or Decrease in 1919 on—						
Previous Year	+2.6	-2.7	-0.26	nil.	-17	
Ten Years' Average	-2.1	-0.3	-0.53	-0.24	-29	

Rawtenstall (Borough)	Rawtenstall (Borough). PER 1,000 OF POPULATION.			ATION.	D. L
	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Bate of Deaths under 1 year to 1,000 Births.
1919	12.5	12.8	0.25	1.02	55
1918	12.8	17.2	0.71	1.10	102
Mean of 10 years					
1909-1918	17.5	14.3	0.74	0.87	101
Increase or Decrease in 1919 on—					
Previous Year					
Ten Years' Average	-5.0	-1.5	-0.49	+0.15	-46
Rishton.—					
1919		10.5	0.41	0.41	84
1918	12.5	15.2	0.31	0.79	56
Mean of 10 years 1909-1918	16.9	11.8	0.61	0.95	85
Increase or Decrease in 1919 on—					
Previous Year	+1.4	-4.7	+0.10	-0.38	+28
Ten Years' Average	-3.0	-1.3	-0.20	-0.54	-1
Royton.—					
1919	11.9	13.6	0.62	0.79	141
1918	14.2	23.0	0.66	1.45	157
Mean of 10 years 1909-1918	22.3	17.3	1.29	1.00	128
Increase or Decrease in 1919 on—					
Previous Year	-2.3	-9.4	-0.04	-0.66	-16
Ten Years' Average	-10.4	-3.7	-0.67	-0.21	+13

St. Annes-on-the-Sea.		PER	1,000 OF POP	ULATION.	Rate of
The second secon	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Deaths under 1 year to 1,000 Births.
1919	. 10.1	14.2	1.04	0.83	79
1918	. 8.2	11.5	0.59	0.59	43
Mean of 10 years 1909-1918	. 11.1	11.0	0.44	0.52	67
Increase or Decrease in 1919 on—					
Previous Year	.+1.9	+2.7	+0.45	+0.24	+36
Ten Years' Average	.—1.0	+3.2	+0.60	+0.31	+12
Skelmersdale.—					Melf
1919	. 24.0	14.4	1.09	0.46	93
1918	. 24.1	19.6	1.28	1.28	124
Mean of 10 years 1909-1918	. 28.5	16.4	2.07	0.74	143
Increase or Decrease in 1919 on—					
Previous Year	-0.1	-5.2	-0.19	-0.82	-31
Ten Years' Average	-4.5	$-\!\!\!\!-\!\!\!2\cdot\!\!0$	-0.98	-0.28	50
Standish-with-Langtree.					
1919				0.42	153
1918	22.5	15.9	1.19	0.59	106
Mean of 10 years 1909-1918	25.4	13.7	1.25	0.54	122
Increase or Decrease in 1919 on—					
Previous Year	-1.9	-1.1	-0.34	-0.17	+47
Ten Years' Average	-4.8	+1.1	-0.40	-0.12	+31

Stretford.—	PER 1,000 OF POPULATION.				
	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Deaths under 1 year to 1,000 Births.
1919	12.8	12.3	0.21	0.96	76
1918	12.5	14.0	0.54	1.00	62
Mean of 10 years					
1909-1918	16.4	11.6	0.75	0.84	86
Increase or Decrease in 1919 on—					
Previous Year	+0.3	-1.7	-0.33	-0.04	+14
Ten Years' Average	-3.6	+0.7	-0.54	+0.12	-10
Swinton and Pendlebury.					
1919	18.7	13.5	0.74	0.85	96
1918	16.5	16.8	0.61	1.45	100
Mean of 10 years 1909-1918	22.1	14.5	1.53	1.11	133
Increase or Decrease in 1919 on—					
Previous Year	$+2\cdot2$	-3.3	+0.13	-0.60	-4
Ten Years' Average	-3.4	-1.0	-0.79	-0.26	-37
Thornton.					
1919	16.5	12.3	0.39	0.58	. 79
1918	14.4	17.4	0.42	1.06	78
Mean of 10 years 1909-1918	21.1	12.5	0.54	0.76	83
Increase or Decrease in 1919 on—					
Previous Year	+2.1	-5.1	-0.03	-0.48	+1
Ten Years' Average	-4.6	-0.2	-0.15	-0.18	-4

Tottington.—		PER	1,000 OF POP	ULATION.	Rate o
Children which are the same of	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Death
1919	10.5	14.4	1.03	1.18	81
1918	10.9	18.8	0.67	2.18	82
Mean of 10 years 1909-1918	15.4	13.2	0.81	1.03	91
Increase or Decrease in 1919 on—					
Previous Year	-0.4	-4.4	+0.36	-1.00	-1
Ten Years' Average	4.9	+1.2	+0.22	+0.15	10
Trawden.—					
1919	13.6	10.8	0.37	0.74	26
1918	10.5	16.7	1.22	nil.	68
Mean of 10 years 1909-1918	19.4	13.2	0.76	0.92	109
Increase or Decrease in 1919 on—					
Previous Year	+3.1	5.9	-0.85	+0.74	-42
Ten Years' Average	- 5·8	-2.4	-0.39	-0.18	-83
Turton.—					
1919	12.1	13.4	0.33	0.41	66
		13.8		0.46	67
Mean of 10 years 1909-1918	15.3	12.4	0.50	0.73	79
Increase or Decrease in 1919 on—					
Previous Year+	-2.2	-0.4	-0.60 -	-0.05	-1
Ten Years' Average	-3.2	+1.0	-0.17 -	-0.32	-13

Tyldesley-with-Shakerley.—		PER 1,	Rate of		
	irth- ate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Deaths under 1 year to 1,000 Births.
1919 2	21.9	15.8	0.83	1.08	115
1918 2	23.4	17.0	1.70	0.52	73
Mean of 10 years					
1909-1918 2	25.1	15.1	2.28	0.95	120
Increase or Decrease in 1919 on—					
Previous Year					
Ten Years' Average	-3.2	+0.7	-1.45	+0.13	-5
			(4)		
Ulverston.—					
1919 2	0.6	14.3	0.40	0.80	65
1918 2	0.2	19.4	0.97	0.58	76
Mean of 10 years 1909-1918 2	1.2	15.0	1.04	0.73	100
Increase or Decrease in 1919 on—					
Previous Year+	0.4 -	-5.1	-0.57	+0.22	-11
Ten Years' Average	0.6	-0·7 ·	-0.64	+0.07	-35
Upholland.—					
1919 2	7.4	11.8	0.78	0.19	55
1918 1					
Mean of 10 years 1909-1918 2	6.7	14.4	1.49	0.74	117
Increase or Decrease in 1919 on—					
Previous Year+	8.3	-5.5	-0.66	-0.42	-60
Ten Years' Average+					

Urmston.—		PER 1	,000 OF POPU	LATION.	
O'Illiston.			Epidemic	Phthisis	Rate of Deaths under 1
	Birth- rate.	Death- rate.	Death- rate.	Death- rate.	year to 1,000 Births.
1919	. 13.3	11.5	0.23	0.83	34
1918	. 13.7	12.1	0.25	0.89	58
Mean of 10 years					
1909-1918	17.7	10.8	0.88	0-87	70
Increase or Decrease in 1919 on—					
Previous Year	0.4	-0.6	-0.02	-0.06	24
Ten Years' Average	4.4	+0.7	-0.65	-0.04	-36
Walten la Dala					
Walton-le-Dale.					
1919		12.7	0.68	0.85	85
1918	. 14.0	16.6	0.09	1.41	77
Mean of 10 years 1909-1918	20.0	13.9	0.92	0.90	110
Increase or Decrease	. 20.0	19.9	0.92	0.90	110
in 1919 on—					
Previous Year	+1.4	-3.9	+0.59	-0.56	+8
Ten Years' Average	4.6	-1.2	-0.24	-0.05	-25
Wardle.—					
1919	12.7	14.8	nil.	1.51	22
1918	9.6	29.3	0.63	2.23	117
Mean of 10 years 1909-1918	14.6	17.5	0.82	1.11	115
Increase or Decrease			0.02		A TO
in 1919 on—				10 B 10	
Previous Year					
Ten Years' Average	1.9	-2.7	-0.82	+0.40	-93

Waterloo-with-Seaforth.		PER 1	,000 of Pop	ULATION.	Rate of
	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Deaths under 1 year to 1,000 Births.
1919	. 18.6	14.6	0.97	1.14	73
1918	. 19.6	17.0	0.91	1.22	86
Mean of 10 years 1909-1918	21.7	13.6	1.03	1.03	87
Increase or Decrease in 1919 on—					
Previous Year	1.0	$-2\cdot 4$	+0.06	0.08	-13
Ten Years' Average	3.1	+1.0	-0.06	+0.11	-14
Westhoughton.—					
1919	. 20.9	12.6	0.39	0.39	99
1918	. 19.2	15.7	2.04	0.58	91
Mean of 10 years 1909-1918	. 24.8	14.0	1.58	0.62	123
Increase or Decrease in 1919 on—					
Previous Year					
Ten Years' Average	.—3.9	—l·4	-1.19	0.23	-24
Whitefield.—					
1919					
1918	. 14.2	15.1	0.47	0.78	79
Mean of 10 years 1909-1918	. 18.0	14.4	1.00	0.73	104
Increase or Decrease in 1919 on—					
Previous Year					+25
Ten Years' Average	.—5.6	-1.5	-1.00	+0.07	nil.

Whitworth		PER 1	,000 of Pop	ULATION.	Rate of
Total state state and	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Deaths under 1 year to 1,000 Births.
1919	. 13.3	16.9	0.36	0.97	69
1918	. 11.7	22.3	1.53	1.53	74
Mean of 10 years 1909-1918	. 16.9	17.9	0.84	1.37	115
Increase or Decrease in 1919 on—					
Previous Year					
Ten Years' Average	3.6	-1.0	-0.48	-0.40	-46
Widnes (Borough).—					
1919	. 26.0	16.5	1.43	1.22	90
1918	. 23.8	18.8	1.57	1.26	118
Mean of 10 years 1909-1918	29.0	17.3	2.56	1.14	127
Increase or Decrease in 1919 on—					
Previous Year					-
Ten Years' Average	3.0	-0.8	-1.13	+0.08	-37
Withnell.—					
1919	. 14.1	13.0	nil.	0.70	23
1918	13.5	17.0	0.36	0.36	119
Mean of 10 years 1909-1918	18.3	12.1	0.60	0.58	71
Increase or Decrease in 1919 on—					
Previous Year	.+0.6	-4.0	-0.36	+0.34	-96
Ten Years' Average	4.2	+0.9	-0.60	+0.12	-48

Worsley.—	orsley.— Per 1,000 of Population.				
	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Deaths under 1 year to 1,000 Births
1919	13.9	14.1	0.13	0.48	109
1918	14.3	14.5	0.53	1.29	71
Mean of 10 years 1909-1918	18.5	12.7	0.98	0.65	108
Increase or Decrease in 1919 on—					
Previous Year	-0.4	-0.4	-0.40	-0.81	+38
Ten Years' Average	-4.6	+1.4	-0.85	-0.17	+1

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RURAL DISTRICTS.

Barton-upon-Irwell.—	PER 1,000 OF POPULATION.				Rate of
12-70-08 0.051.0408	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Deaths under 1 year to 1,000 Births.
1919	19.0	13.3	nil.	0.80	63
1918	15.2	16.2	0.34	1.93	86
Mean of 10 years 1909-1918	19.9	12.3	0.79	0.73	80
Increase or Decrease in 1919 on—					
Previous Year	+3.8	-2.9	-0.34	-1.13	-23
Ten Years' Average	-0.9	+1.0	-0.79	+0.07	-17
Blackburn.—					
1919	14.0	14.3	0:12	0.86	67
1918	12.3	16.6	0.39	0.78	141
Mean of 10 years 1909-1918	18.2	13.8	0.67	0.65	94
Increase or Decrease in 1919 on—					
Previous Year	+1.7	$-2\cdot3$	-0.27	+0.08	-74
Ten Years' Average	-4.2	+0.5	-0.55	+0.21	-27
Burnley.—		1			
1919	12.4	13.5	0.34	0.51	101
1918	12.0	14.6	0.35	0.88	79
Mean of 10 years 1909-1918	16.9	13.1	0.70	0.68	107
Increase or Decrease in 1919 on—					
Previous Year	+0.4	-1.1	-0.01	-0.37	+22
Ten Years' Average	-4.5	+0.4	-0.36	-0.17	-6

Bury.—		PER I	,000 of Pop	ULATION.	Rate of
	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Deaths under 1 year to 1,000 Births.
1919	13.9	15.2	0.45	0.57	79
1918	12.3	18.9	0.49	0.85	123
Mean of 10 years 1909-1918	18.4	14.2	0.95	0.79	97
Increase or Decrease in 1919 on—					
Previous Year	+1.6	-3.7	-0.04	-0.28	-44
Ten Years' Average	-4.5	+1.0	-0.50	-0.22	-18
Chorley.—					
1919	. 15.0	12.3	0.23	0.73	102
1918	16.3	17.7	1.07	0.71	106
Mean of 10 years 1909-1918	. 21.2	13.8	1.04	0.75	111
Increase or Decrease in 1919 on—				or Dec	
Previous Year	-1.3	$-\!$	-0.84	+0.02	-4
Ten Years' Average	-6.2	-1.5	-0.81	-0.02	-9
Clitheroe.					
1919	14.9	14.7	0.32	0.48	113
1918					
Mean of 10 years 1909-1918					73
Increase or Decrease in 1919 on—					
Previous Year	+1.1	+2.3	+0.32	+0.31	+58
Ten Years' Average					

Fylde.—		PER	1,000 OF POP	ULATION.	
	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Rate of Deaths under 1 year to 1,000 Births.
1919	16.4	12.3	0.27	0.45	58
1918		16.1	0.57	0.57	82
Mean of 10 years					n med
1909-1918	20.2	12.8	0.97	0.46	90
Increase or Decrease in 1919 on—					
Previous Year	+1.9	-3.8	-0.30	-0.12	-24
Ten Years' Average	-3.8	-0.5	-0.70	-0.01	32
Garstang.—					
1919	15.6	13.2	0.38	0.77	89
1918	14.6	17.1	0.51	0.41	88
Mean of 10 years 1909-1918		12.7	0.36	0.47	74
Increase or Decrease in 1919 on—					
Previous Year	+1.0	-3.9	-0.13	+0.36	+1
Ten Years' Average	-3.0	+0.5	+0.02	+0.30	+15
Promote Test					
Lancaster.—					
1919	18.2	14.9	0.47	1.07	9.1
1918			1.13		141
Mean of 10 years 1909-1918					83
Increase or Decrease in 1919 on—		200	faten	no.RH	ANNE DE
Previous Year	+0.7	-6.9	-0.66	+0.07	-47
Ten Years' Average					

Leigh.—		PER	1.060 OF POR	PULATION.	Total .
	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Rate of Deaths under 1 year to 1,000 Births.
1919	19.0	15.3	0:40	0.70	101
1918	20.8	17.4	1.78	0.52	99
Mean of 10 years 1909-1918	25.8	14.5	1.98	0.75	123
Increase or Decrease in 1919 on—					
Previous Year	-1.8	$-2{\cdot}1$	-1.38	+0.18	+2
Ten Years' Average	-6.8	+0.8	-1.58	-0.05	-22
Limehurst.—					
	1				
1919		16.0	0.56	0.56	103
1918	15.7	15.5	0.48	1.08	116
Mean of 10 years 1909-1918	21.7	15.1	1.20	1.04	118
Increase or Decrease in 1919 on—					
Previous Year	-0.1	+0.5	+0.08	-0.52	-13
Ten Years' Average	-6.1	+0.9	-0.64	-0.48	-15
Lunesdale.—					
1919	15.5	12.8	0.33	0.67	104
1918	14.8	12.1	0.33	0.33	70
Mean of 10 years 1909-1918	17.1	11.9	0.46	0.51	70
Increase or Decrease in 1919 on—					
Previous Year	+0.7	+0.7	nil.	+0.34	+34
Ten Years' Average					

Preston.—		PER 1	,000 OF POPU	LATION.	Poloce
	Birth- rate.	Death- rate.	Epidemie Death- rate.	Phthisis Death- rate.	Rate of Deaths under 1 year to 1,000 Births.
1919	15.2	12.3	0.21	0.64	64
1918	. 15.4	17.6	0.23	0.97	73
Mean of 10 years 1909-1918	. 19.7	13.7	0.58	0.80	85
Increase or Decrease in 1919 on—					
Previous Year	0.2	-5.3	-0.02	0.33	-9
Ten Years' Average	4.5	-1.4	-0.37	-0.16	21
Sefton.—					
1919	. 14.9	12.3	0.21	0.63	68
1918	. 18.2	14.8	1.12	1.34	65
Mean of 10 years 1909-1918	. 17.6	12.7	0.47	1.11	82
Increase or Decrease in 1919 on—					
Previous Year	.—3.3	$-\!\!\!-\!\!2\cdot\!5$	-0.91	-0.71	+3
Ten Years' Average	.—2.7	-0.4	-0.26	-0.48	-14
Illerandon					
Ulverston.—					
1919		14.8			
1918	. 16.4	15.2	0.73	0.85	83
Mean of 10 years 1909-1918	. 18.5	13.2	0.40	0.70	69
Increase or Decrease in 1919 on—					
Previous Year	+3.9	-0.4	-0.55	+0.14	-10
Ten Years' Average	+1.8	+1.6	-0.22	+0.29	+4

Warrington.—	PER 1,000 OF POPULATION.				
Birth rate.	Death-	Epidemic Death- rate.	Phthisis Death- rate.		
1919 19-	0 13.2	nil.	0.98	85	
1918 17-	8 16.4	1.78	0.94	94	
Mean of 10 years 1909-1918 21:	2 12.8	1.16	1.03	94	
Increase or Decrease in 1919 on—					
Previous Year+1:	2 -3.2	-1.78	+0.04	-9	
Ten Years' Average2:	2 + 0.4	-1.16	0.05	-9	
West Lancashire.—					
1919 17-8	3 16.8	0.36	0.67	86	
1918 17-8	3 17.7	0.67	0.78	80	
Mean of 10 years 1909-1918 19-5	5 12.6	0.66	0.70	85	
Increase or Decrease in 1919 on—					
Previous Year+0.5	-0.9	-0.31	-0.11	+6	
Ten Years' Average1.7	+4.2	-0.30	-0.03	+1	
Whiston.—					
1919 22.2	17.8	0.52	1.26	105	
1918 20.0	15.0	1.39	1.19	85	
Mean of 10 years 1909-1918 22.9	13.1	1.25	0.82	95	
Increase or Decrease in 1919 on—					
Previous Year+2.2	+2.8	-0.87	+0.07	+20	
Ten Years' Average0.7	+4.7	-0.73	+0.44	+10	

Wigan.—		Rate of			
	Birth- rate.	Death rate.	Epidemic Death- rate.	Phthisis Death- rate.	Deaths under 1 year to 1,000 Births.
1919	17.6	16.8	0.68	0.51	111
1918	16.4	13.9	0.53	1.23	67
Mean of 10 years 1909-1918	21.5	13.2	0.76	0.64	111
Increase or Decrease in 1919 on—					
Previous Year	+1.2	+2.9	+0.15	-0.72	+44
Ten Years' Average	-3.9	+3.6	-0.08	-0.13	nit,

	PER 1,000	OF POPUL	ATION.	Rate of
Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Deaths under 1 year to 1,000 Births.
16.58	14.01	0.63	0.81	94
16.09	17.40	0.99	1.10	101
20.65	14.60	1.30	0.94	115
+0.49	-3.39	-0.36-	-0.29	-7
4.07	-0.59	-0.67-	-0.13	-21
16.88	14.40	0.41	0.75	88
16.06	16.41	0.77	0.88	90
19-94	13.34	0.83	0.74	93
3.06	+1.06	-0.42	+0.01	-5
ive				
16.62	14.06	0.49	0.80	93
				100
				110
20.99	14.43	1.23	0.91	113
3.93	<u>-0.37</u> -	-0.74	-0.11	-20
	16.58 16.09 20.65 +0.49 4.07 16.88 16.06 19.94 +0.82 3.06 ive 16.62 16.08 20.55	Birth: Death: rate. 16.58 14.01 16.09 17.40 20.65 14.60 +0.49 -3.394.07 -0.591.06 16.41 19.94 13.34 +0.82 -2.013.06 +1.06 16.62 14.06 16.08 17.26 20.55 14.43 +0.54 -3.20	Birth rate. Death rate. 16.58 14.01 0.63 16.09 17.40 0.99 20.65 14.60 1.30 +0.49 —3.39 —0.36—4.07 —0.59 —0.67— 19.94 13.34 0.83 +0.82 —2.01 —0.36 —3.06 +1.06 —0.42 ive 16.62 14.06 0.49 16.08 17.26 0.96 20.55 14.43 1.23 +0.54 —3.20 —0.47	Birth rate. Death rate. Death rate. 16.58 14.01 0.63 0.81 16.09 17.40 0.99 1.10 20.65 14.60 1.30 0.94 +0.49 -3.39 -0.36 -0.294.07 -0.59 -0.67 -0.13 16.88 14.40 0.41 0.75 16.06 16.41 0.77 0.88 19.94 13.34 0.83 0.74 +0.82 -2.01 -0.36 -0.133.06 +1.06 -0.42 +0.01 ive 16.62 14.06 0.49 0.80

*EXTRACT FROM THE METEOROLOGICAL REPORT

BY THE

REV. A. L. CORTIE, S.J., F.R.A.S., F. Inst. P., Of Stonyhurst College Observatory.

SUMMARY OF OBSERVATIONS FOR 1919.

Results of Observations taken during the Yea	Mean for the last 72 years.	
Readings of Barometer in inches		
Mean of the year	29.496	29.492
Highest Monthly Mean (October)	29.767	29.744
Lowest ,, ,, (January)	29.263	29.221
Highest Reading (April)	30.302	30.291
Lowest ,, ,, (January) Highest Reading (April) Lowest ,, (April)	28.250	28.202
Range	2.052	2.089
Thermometer, Fahrenheit.		
Highest Monthly Mean Temperature		
(August)	56.7	58.6
Lowest ,, ,, (February) Highest Reading of a Max. Therm.	34.7	35.5
Highest Reading of a Max. Therm.		
(June 11th)	76.5	81.4
Lowest Reading of a Min. Therm.		
(February 9th)	19.4	16.0
Range of Thermometer Readings	57.1	65.4
Mean of Highest Daily	52.1	54.5
Mean of Lowest Daily ,,	40.9	40.9
Mean Daily Range	11.2	13.6
Deduced Mean Temperature (from mean		
of Max. and Min.)	45.5	46.7
Mean Temperature from Dry Bulb	46.2	47.1
Adopted Mean Temperature of the Year.	45.9	46.9
Mean Temperature of Evaporation	43.4	44.6
Mean Temperature of Dew Point	40.7	42.1
Mean elastic force of Vapour inches	0.262	0.274
Mean weight of Vapour in a cubic foot of		
air grains Mean additional weight required for	3.0	3.2
Mean additional weight required for	statistic a	
saturation grains	0.7	0.7
Mean degree of Humidity (saturation 100)	83	83

^{*} Introduced by kind permission.

Results of Obser	rvations	s taken	during	the Ye	ar.		Mean for last 72 year	
Mean weight of a cul	oic fo	ot of a	ir., 91	rains	540	4	539	-1
Mean amount of Clo					7		7	
Total fall of Rain .			inc	ches	41.12	28	47.06	
Greatest Monthly R	ainfa	ll (Dec	e.)	,,	6.64	15	7.60	
				,,	1.29)5	1.23	
Least ,, Greatest Rainfall i	n on	e dan	V					
		ar. 10			1.37	5	1.69	25
No. of days per Mon								
or more Rain fell					16	.9	17	.1
	SIIM	MARY	OF V	VIND				
Prevailing direction		N.E.		S.E.		s.w.	w.	N.W.
						0.111		
No. of days for each	49	47	26	7	46	51	121	18
Mean Velocity in miles per hour		6.2	7.2	8.3	9.2	8.2	10.8	8.2
Total No. of miles for each direction .		7001	4503	1397	10184	10032	31466	3534
							Mean for last 52 year	
Total No. of miles	egist	ered			756	15	85664	1.5
Greatest Monthly T						0.00	9981	
Least ,, Greatest hourly vel	,,	(Febr	uary)		387	2000	4958	
and Dec. 11th)						40	50	9.9
Prevailing Direction						W		W

ŧ deni 200 denim na di unim regispela la colo Providing disaption s. p.s. 2 and service of the se STORED IN SECTION OF THE PROPERTY OF THE PARTY OF THE PAR Consider Monthly Total (Demonstra) (anthoused) Late Tyllifueld Assistant Monthe Late Tyllifueld (Demonstrate of the Late Tyllifueld (