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COUNTY BOROUGH OF PRESTON.



REPORT

OF THE Medical Officer of Health

ON THE HEALTH OF THE BOROUGH FOR THE YEAR

1924.

PRESTON:
R. Seed & Sons, Printers, 43 Guildhall Street.
1925.

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HEALTH COMMITTEE, 1924-25

Chairman: Mr. Councillor Richard Durham.

Vice-Chairman: Mr. Councillor T. H. C. Derham, M.B., C.M.

HIS WORSHIP THE MAYOR.

Mr. Councillor E. C. C. FIRTH, J.P.

Mr. Alderman HENRY CARTMELL.

Mr. Councillor J. HERBERT.

Mr. Alderman H. FAZACKERLEY.

Mrs. Councillor A. M. PIMBLETT.

Mr. Councillor T. C. RAINFORD.

Mrs. Councillor M. Astley-Bell, J.P.

Mr. Councillor F. W. Collinson, F.R.C.S.

MATERNITY AND CHILD WELFARE COMMITTEE.

Chairman: Mrs. Councillor A. M. Pimblett.

The Health Committee and Councillors SNELHAM, SERGEANT and HEAPS with the following Ladies adopted as Members:—

Mrs. BARWICK.

Mrs. Todd, J.P.

Mrs. Dunbar, J.P.

Mrs. Jamieson.

Mrs. Marsden, J.P.

Mrs. STANGER.

TUBERCULOSIS SUB-COMMITTEE.

Six Members of the Health Committee, with the following Members of the Insurance Committee adopted as Members:—

Mr. J. Corbishley,

MR. W. PEMBERTON.

Report of the Medical Officer of Health.

To the Chairman and Members of the Health Committee.

Mr. CHAIRMAN, LADIES AND GENTLEMEN.

I have the honour to submit to you the Annual Report on the Sanitary Condition of the Borough for the year 1924.

The vital statistics are practically the same as those of the last two years. The standard of living, upon which the Public Health mainly depends, has declined after several years of trade depression. This phase is reflected in the increased number of in-patients and out-patients at the Preston Royal Infirmary, the large number of admissions to the Poor Law Infirmary, and the amount of out-door relief. There has been an improvement in the state of employment, but there is still a great amount of unemployment and under-employment, more particularly felt in the Engineering trade.

The report is divided into sections, each of which deals with a particular aspect of disease prevention.

The Sanitary Inspectors dealing with environment have maintained a steady pressure upon owners to maintain their property in good order, thus avoiding an accumulation of defects which favour epidemic outbreaks. The rapid growth of the north-easterly portion of the town has rendered the appointment of an additional Inspector a matter for consideration. The pollution of the atmosphere by industrial smoke, so wasteful, depressing, and productive of disease, demands more attention from your Committee than it has hitherto received, and I recommend the appointment of an Inspector trained in boiler management to have the suppression of smoke as his one duty. The extraordinary manner in which the beauty of our town was revealed in the clear, smokeless weather prevailing at Whitsuntide, 1925, was a matter of universal comment and delight.

Captain Finch, our Veterinary Surgeon, has compiled a report of great value. It is a record of a painstaking effort to render the food of the people as free from disease and contamination as possible. The supervision of meat cannot be improved upon, and I am satisfied that we are getting an article of food of high quality. The difficulty with milk is that it is dear, the production is not under our control, and it is liable to rapid fermentative changes. The consumption per head equals 8½ ounces per diem. I believe that the sale of milk restricted to an article produced under reasonably clean conditions and bottled at the farm would result in a greatly increased consumption.

There has been a steady decline in the number of cases and of deaths from infectious diseases. Influenza, Tuberculosis and Pneumonia remain chief among the fatal diseases, and among the non-infectious diseases Cancer, Circulatory

Diseases, and Bronchitis are to be most dreaded. It is hoped that the provision of more accommodation for Pulmonary Tuberculosis and the creation of a Nursing Service will prove valuable weapons in our fight against disease.

The mortality among infants and in parturient women remains high. The principle of extending our service and correlating with it existing organisations, such as the Voluntary Workers' Association and the Preston Royal Infirmary, has been applied. The taking over of what were Poor Law functions in the supply of Free Doctor, Midwife, Home Help, or Milk in respect of Nursing and Expecting Mothers and children under five years is causing a great expansion in our work.

The Isolation Hospital has had a busy year, and is continually extending the scope of its activities.

We have done well in the provision of new houses, but more remains to be done.

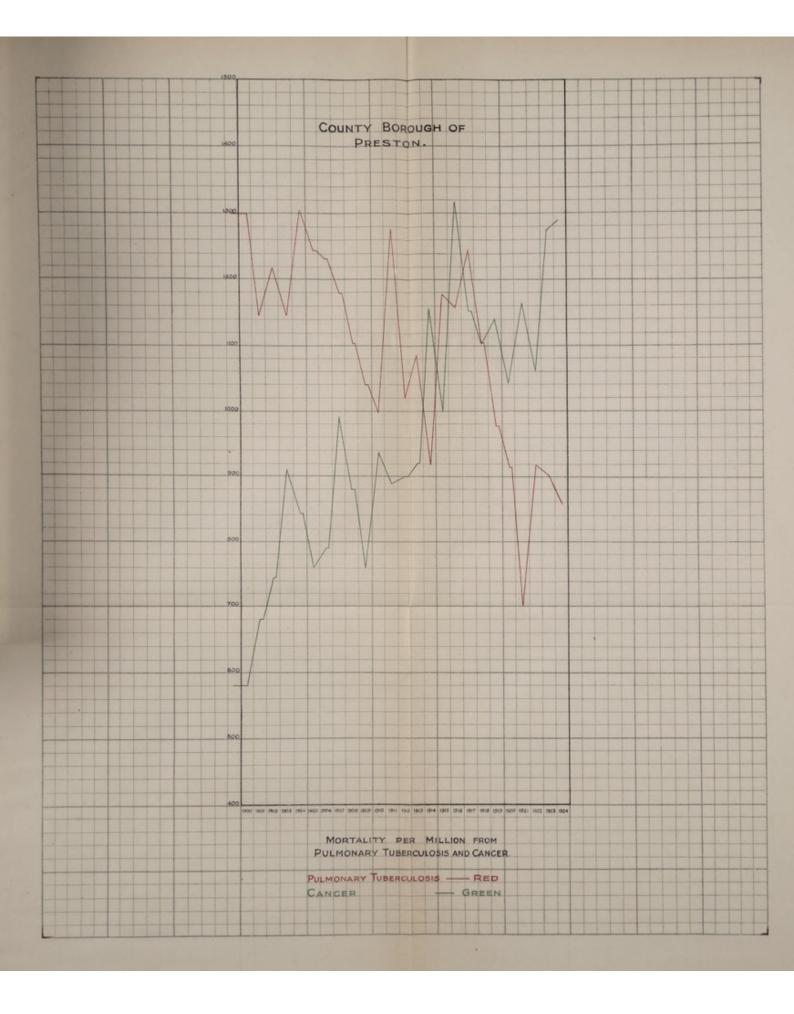
In conclusion, I tender my thanks to the Chairman and Members of your Committee for heir kindly help and consideration always forthcoming, and to my colleagues for their loyal and energetic efforts.

I am,

Your Obedient Servant,

F. A. SHARPE.

Medical Officer of Health.



I.—Natural and Social Conditions of the District.

VITAL STATISTICS SUMMARY.

Area in acres . Population, estima	 ated middle of 19		
	1922-23	1923-24	1924-25
Rateable Value	£591,770	£598,748 .:	. £605,474
Sum represented by			
a penny rate	£2,100		
Total Data Table 1	s. d.	s. d.	s. d.
Total Rates Levied	3 3	12 6	11 10
Rate for Public Healt		4	o 85
" Highways	-	14	1 43
" Scavenging.		0 5	0 5\frac{1}{8}
**	se o 10	22	0 9
", Sewerage ".	o $6\frac{3}{4}$	0 6	0 5 8
	Males	. Females	s. Birth Rate.
Births-Legitimate	1,120	1,096	18.00
Illegitimate	65	47	0.91
Deaths—Nett	1,714	Rate	13.92
Number of Marriag	ges, 1,035	Marriage	Rate, 8.4
Number of women birth—	dying in, or in	consequence	e of, child
From Sepsis—5.	From ot	her causes—	9.
Deaths of infants births—	under one year	of age per	1,000
Legitimate—91.	Illegitimate-	-205.	Total—97.
Deaths from Measle	es at all ages	***	21
,, Whoo	ping Cough		4
" Diarrh	iœa (under two ye	ears)	23

POPULATION.

The following information is supplied by the Registrar-General:—

[&]quot;The procedure followed in adjusting the local Census populations of 1921 in order to arrive at estimates of resident populations for that year which could suitably be used in connection with statistics of births and deaths classified according to area of residence is described in the Registrar-General's Statistical Review (text) for 1921.

The estimates of population as at 30th June, 1924, which are now provided have been based on the adjusted 1921 figures, after allowance for the varying rate of natural increase as evidenced by the births and deaths in each area and of migration as indicated from other sources of information, such as the changes in the numbers on the Electoral Register and the migration returns obtained by the Board of Trade, and are supplied only for use in Vital Statistics.

Estimated population, 1924-123,100."

The Vital Statistics of the various wards are set out in the table below. As will be seen, they vary very much from one another, and a reference to previous reports shews that they vary from year to year.

TABLE IA.

WARD	Census 1921	Estimated Population, June, 1924	Nett Deaths	Rate per 1000 living	Births	Rate per 1000 living	Deaths of Infants	Infant Mortality per 1000 born
St. John's	11647	12108	188	15.53	222	18.34	31	140
Avenham	7155	7389	113	15.29	113	15.29	10	88
Christ Church	8474	8810	140	15.89	187	21.23	24	128
Ashton		9281	99	10.67	135	14 55	10	74
Maudland	9641	10014	112	11.18	195	19.47	19	97
St. Peter's	11319	11936	163	13.66	230	19.27	19	83
Moorbrook	8736	9104	107	11.75	134	14.72	9	67
Park	14470	15056	196	13.02	295	19 59	22	7.5
Trinity	9684	10055	174	17.30	238	23.67	19	80
Deepdale	10743	11717	163	13.91	236	20.14	28	119
Ribbleton	9065	9892	147	14.86	215	21.74	25	116
Fishwick	7442	7738	109	14.09	128	16.54	9	70
Unknown		- nat	3			01		
	117406	123,100	1714	13.92	2328	18.91	225	97

In the Borough as a whole there has been a slight fall in the Birth Rate. The Death Rate is a little higher than in 1923, and the Infant Mortality is practically the same as last year.

The number of Marriages and the rate have slightly increased.

There has been an increase in the number of deaths from Measles (21—6), Cancer (159—154), Influenza (89—54), Violence (54—37), Heart Disease (194—169), and Arterio-Sclerosis (75—58), and a decrease in those caused by Whooping Cough (4—22) and Pneumonia (175—189). Deaths from other causes are approximately the same as in 1922.

There were 6 deaths from Suicide, compared with 16 last year. In the five years 1914-1918 the average was 8.8, and in the succeeding five years 12.6.

The tables which follow deal with the Vital Statistics, and compare them with previous years and with other towns. They also illustrate the mortality in the various Wards. The figures supplied by the Registrar-General agree in the totals with those locally compiled, but differ slightly in detail. Calculations have been based upon the former.

TABLE IB.

Vital Statistics of whole District during 1924 and previous nine years.

		D.			TOTAL DEATHS REGISTERED IN THE DISTRICT.		Transf Dear	ERABLE THS.		DEATHS THE DIST		ING TO	
			THS.		THE DI	STRICT.			Und'r l	yr.of age	At all	l Ages.	
YEAR.	Total Population.	Num- ber.	Rate.	CIVILIAN POPULA- TION.	Num- ber.	Rate.	of Non- resid'ts regis- tered in the district	of Resi- dents not regist'd in the district	Num ber.	Rate per 1,000 Nett Births.	Num- ber	Rate.	
1915	118,118	2546	21.48	111936	1878	16.78	50	258	395	155	2086	18.63	
1916	119,611	2315	19.36	109935	1581	14.39	46	239	254	109	1774	16.14	
1917	118,993	2019	16.96	106747	1461	13.69	57	241	255	124	16 6 0	15.46	
1918	118,595	1906	16.07	105845	1778	16.79	66	232	213	113	1944	18.36	
1919	122,168	2086	17.45	117277	1619	13.55	66	207	225	110	1760	14.72	
1920	122,133	2984	24.43	121950	1539	12.57	83	203	301	101	1659	13.60	
1921	119,900	2811	23. 44	-	1449	12.08	61	207	316	112	1595	13.30	
1922	120,900	2482	20.53		1528	12.64	74	208	242	.97	1662	13.75	
1923	121,700	2426	19.11		1527	12.54	78	227	238	98	1676	13.77	
1924	123,100	2328	18.91	0.00	1573	12.78	88	229	225	97	1714	13.92	

Causes of Death at Different Periods of Life during the Year 1924

Supplied by the Registrar-General.

Causes of Death.	Sex	All Ages.	0-	1—	2-	5	15—	25—	45—	65—	75—
ALL CAUSES	(M F	862	145	26 25	31 16	17 28	36 27	112 91	248 252	151 169	96 163
1 Enteric Fever	5 M	1							1		
2 Small Pox	} F										
	(M	11	1	6	4					***	
3 Measles	FM	10	2	5	1	1		***		***	
4 Scarlet Fever	F	1 2		1	1			***			
5 Whooping Cough	(F	2	î	1	2	2					
6 Diphtheria	{ M F	2				1	1	13	15	4	
7 Influenza) M	41 48	3	1	3	1 2		11 8	21	10	5
8 Encephalitis Lethargica	1 M	***		***				***		***	***
9 Meningococcal meningitis		1	111			1					
10 Tuberculosis of respiratory	M	64		1	1	7	15 7	23 17	23	1 2	
system	(M	18	6	1	4	2	1	1	2	1	
	(A	16 63	3	3	1	1	1	3	34	22	2
12 Cancer, malignant disease	F	96 2	***	1				2	56	28	9
13 Rheumatic Fever	{ M F	6				3	1	1	4	1 2	1
14 Diabetes	. { M F		***				1	1	5 13	5 12	12 12
15 Cerebral Hæmorrhage, &c	. \ M					***	***	1	12	20	21
16 Heart Disease	. } M	74	***			2 3	6		27 37	22 35	16 25
17 Arterio-sclerosis	(M	36						1		22 17	10
18 Bronchitis	(M	80	6	1				0	27	17 20	20 25
) F		7 26	7	10		0.00	24	22	9	4
19 Pneumonia (all forms)	F	66	6	13	5			2	7 1000	- 4	6
20 Other respiratory diseases	F	8			1	***		9			1
21 Ulcer of Stomach or Duodenur	(1	4				THE STATE OF THE S	1 3 0		0		
22 Diarrhœa, &c	. { H		12 7	***		1				-	
23 Appendicitis and Typhlitis	. S M			1000	1	LUNC OF THE PERSON NAMED IN		333	1	(97)	
24 Cirrhosis of Liver	1	1 4		1 3700		1		1		ï	
25 Acute and Chronic Nephritis .	51	1 16									0.00
26 Puerperal Sepsis	1 1	I			1 365	1000					
27 Other accidents and diseases	1 3				1000	0 30				11 pg	
pregnancy and parturition 28 Congenital Debility and Ma	\ F	1 9 I 60			1	1		1			1 1 1 1 1 1 1
formation, Premature Birth	(]	F 40	-39					-		3	
29 Suicide	1 1	F. 3		-					9	2	
30 Other deaths from violence	11	F 14				2 7	1		1	1 :	2.
31 Other defined diseases		I 133 F 128					2	$\begin{bmatrix} 1 \\ 2 \end{bmatrix} \begin{bmatrix} 1 \\ 1 \end{bmatrix}$	6 3	1 1	2 4
32 Causes ill-defined or unknown.	5 1	M 16 F 8		3	1	i	1		70		3

TABLE Ic. (Continued).

Number and Causes of Death in each Ward for the Year.

			1											
Cause of Death.	St. John's ward.	Avenham Ward.	Christ Church Ward.	Ashton Ward.	Maudland Ward.	St. Peter's Ward.	Moor Brook Ward.	Park Ward.	Trinity Ward.	Deepdale Ward.	Ribbleton Ward.	Fishwick Ward.	Unknown.	TOTALS.
Enteric Fever Small Pox Measles Scarlet Fever Whooping Cough Diphtheria, Croup Influenza Encephalitis Lethargica Meningococcal Meningitis Tuberculosis of Resp. System Other Tuberculous Diseases Cancer, Malig. Disease Rheumatic Fever Diabetes Cerebral Hæmorrhage Organic Heart Disease Arterio Sclerosis Bronchitis Pneumonia, all forms Other diseases of respiratory organs Ulcer of Stomach or Duodenum Diarrhoea & Enteritis Appendicitis and Typhlitis Cirrhosis of Liver Acute and Chronic Nephritis Puerperal Sepsis Other accidents and diseases of pregnancy & parturition. Congen. Debility & Malformation. Premature Birth Suicide Other Deaths from Violence Other defined diseases Diseases ill-defined or unknown	2 14 16 10 15 17 26 3 3 1 18 1 5 31 3			1 10 4 1 11 1 2 7 17 3 10 4 1 6 4 15			2		1 7 8 7 13 3 9 19 7 23 15 4 1 2 2 1 6 2 11 1 3 26 3	3 3 11 15 14 3 1 1 9 3 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 2 1 4 4 4 3 1 3 9 2 17 3	2 5	1	1 211 22 44 66 85 1 105 33 158 8 211 90 198 777 155 176 17 111 222 6 7 39 5 8 100 6 55 273 25
Totals	188	113	140	99	112	163	107	196	174	163	147	109	3	1714

TABLE ID.

Birth Rate, Death Rate, and Analysis of Mortality during the Year 1924.

(Provisional figures. The rates for England and Wales have been calculated on a population estimated to the middle of 1923, while those for the towns have been calculated on populations estimated to the middle of 1922. The mortality rates refer to the whole population as regards England and Wales, but only to civilians as regards London and the groups of towns.)

This Table, with the exception of the line relating to the Borough, has been supplied by the Registrar-General:-

EATHS	Uncertified Causes of Death	1:1	9.0	1.2	0.1	3.5
Percentage Total Deaths	Inquest	9.9	6-9	5.2	9.8	4.3
P. OF TO	Causes of Death	92.3	95.6	93.3	91.3	92.2
PER	Total Deaths under One Year	7.5	80	11	69	97
RATE PER 1,000 BIRTHS	Diarrhoea and Enteritis (under 2 years)	7.3	9-2	6.5	8.4	8.16
off or a	Уіо]епсе	0.44	0.40	0.36	0.44	0 49
TION	ezuənyuI	0.49	0.45	0.20	0.36	0.72
PER 1,000 POPULATION	Diphtheria	90.0	80.0	90.0	0.12	0.02
1,000,1	Whooping Cough	0.10	0.12	0.00	0.11	0.03
E PER	Scarlet	0.03	0.03	0.03	0.03	20.0
H RAT	Measles	0.12	0.18	80.0	0.59	0.17
ANNUAL DEATH RATE	xod Ilam2	0.00	0.00	00.00	:	00.0
ANNUA	Enteric Fever	0.01	0.01	0.01	0.01	10.0
	All	12.5	12.3	111-2	12.1	13.92
BIRTH-	TOTAL POPULA-	18.8	19-4	18.9	18-7	18.91
		England and Wales	105 County Boroughs & Great Towns, including London.	157 Smaller Towns (1921 Ad-	London	County Borough of Preston

TABLE IE.

Abstract from the Registrar General's Report for the Quarter ended December 31st,

Population, Births, Deaths, and Infant Mortality for the 53 weeks ended January 3rd, 1925.

NAME OF TOWN.	Adjusted population Mid., 1923.		Re- corded Death Rate.	Meas- les.	Scarlet Fever.		theria.		Diarr- hœa & Enter- itis under 2 years	Deaths under 1 year to 1,000 Births.
Seamen Seamen					APPENDED		STATE OF THE STATE			
Stockport	125,700	16.2	13.4	0.33	0.04	0.03	0.03	0.63	3.4	84
Chester	41,420	20.I	11.3	0.29	0.02	0.05	0.02	0.14	10.7	84
Birkenhead	151,400	21.4	11.6	0.26	0.02	0.26	0.05	0.23	17.6	91
Wallasey	89,990	15.6	10.5	0.09	0.01	0.07	0.01	0.37	4.2	55
Liverpool	837,600	24.4	13.3	0.17	0.07	0.21	0.08	0.22	15.7	102
Bootle	72,410	25.4	10.7	0.21	0.08	0.16	0.04	0.14	11.4	82
St. Helens	107,100	24.0	12.0	0.27	0.01	0.10	0.04	0.36	9.2	106
Southport	72,020	13.1	13.3	0.04		0.07		0.53	3.1	59
Wigan		21.8	14.1	0.90	0.02	0.37	0.03	0.61	10.8	108
Warrington		21.0	11.6	0.22	0.14	0.06	0.01	0.35	7.7	81
Bolton	-0	17.0	13.5	0.06	0.01	0.15	0.03	0.47	9.5	93
Bury	57,250	15.4	13.6		0.02	0.07		0.48	5.6	67
Manchester	752,100	19.9	13.7	0.49	0.04	0.15	0.08	0.44	12.9	97
Salford	241,600	19.2	14.0	0.61	0.01	0.26	0.07	0.44	18.5	119
Oldham	147,500	16.3	13.2	0.16	10.0	0.07	0.02	0.37	9.0	105
Rochdale	92,710	13.7	14.2	0.18	0.05	0.06	0.02	0.89	3.9	87
Burnley	104,800	16.5	144	0.08		0.03	0.08	1.23	11.4	122
Blackburn	129,000	156	13.8	0.15	0.01	0.05	0.02	0.74	6.9	84
Preston	121,700	19.5	13.7	0.18	0.02	0.03	0.05	0.73	8.5	90
Blackpool	74,050	15.5	15.3	0.05	0.01	0.05	0.04	0.55	5.9	73
Barrow-in-Furness.		16.8	11.4	0.03	0.01	0.14	0.05	0.49	3.6	71

THE PRESTON ROYAL INFIRMARY.

A general description of the Royal Infirmary has appeared in previous Annual Reports. The following information is abstracted from the Annual Report of the Preston and County of Lancaster Queen Victoria Royal Infirmary for the year 1924:—

The number of In-patients treated during the year was 3,416, as against 3,039 in the previous year. The daily average number of beds occupied was 202, compared with 190; the total days maintenance being 73,677, as against 69,412. 540 of the patients were transferred to the Lostock Hall Convalescent Hospital, where the average daily occupation of beds was 31 and the average stay of the patient 21 days.

Last year's record in the Out-patient Department has been exceeded—12,853 patients were treated (an increase of 2,509), including 5,194 Accident and Casualty cases, 2,900 Eye, Ear, Nose and Throat, 1,765 Surgical, 322 Medical, 828 X-Ray, 906 Venereal Disease, 494 Electro-Massage, and 77 visited at home. The aggregate attendances numbered 61,177, and the prescriptions dispensed 22,793.

EXPENDITURE.—The total expenditure of the Infirmary was £34,695 15s. 2d., of which £22,630 is. 11d. represented Ordinary Maintenance, and £12,065 13s. 3d. Extensions, Improvements, and Special Equipment.

The average costs per patient were as follows:-

	1922.			1923.				1924.		
	£	s.	d.	£	S.	d.		£	S.	d.
Annual cost per In-Patient at Infirmary	107	18	0	102	19	0		101	18	10
Weekly cost per In-Patient at Infirmary	2	1	6	1	19	6		1	19	21/2
Cost of each In-Patient at Infirmary	6	2	10	5	7	0		5	2	4
Cost of each Out-Patient at Infirmary										
Annual cost of each In-Patient at										
Convalescent Hospital	-	_		70	4	0		71	2	5
Weekly do	1	14	9	1	7	0		1	7	41
Cost of each In-Patient at Convalescent									1,45,10	3.00
Hospital,.	8	8	0	5	18	0		4	1	8

POOR LAW RELIEF.

Mr. Thomas H. Bentham, Clerk to the Guardians, has kindly supplied the following information.

Number of persons received from the Borough of Preston into the Fulwood Workhouse Hospital:—

	Men.	Women.	Children	n.	Total.
1920	 229	 213	 66		508
1921	 205	 294	 109		608
1922	 237	 256	 89		582
1923	 283	 279	 104		666
1924	 329	 224	 76		629

The total amount of Out-door Relief paid in respect of the Borough was as follows:-

			£	S.	d.
1920			 3055	18	0
1921			 12133	16	0
1922	***		 11692	1	7
1923			 4384	12	II
1924		***	 7253	17	I

NATIONAL INSURANCE.

Mr. Irvine R. Dearnley, Clerk to the Preston Insurance Committee, has been good enough to furnish the following information:—

"INSURED POPULATION.

The number of insured persons in the Borough on the 1st April, 1925, was 58,443. Of this number 57,755 are insured through Approved Societies. This is a very large proportion of the population, the percentage of insured for the whole

country being about one-third. The figures only include those workers between the ages of 16 to 70 years whose income is up to £250 per year. This heavy proportion of the population engaged in industry in all its branches is an important factor to be borne in mind when considering health matters in the Borough.

MEDICAL BENEFIT.

The year ended 31st December, 1924, again showed a further remarkable increase in the amount of medicine consumed, and established a new record. The number of prescriptions dispensed by chemists being 269,611, against 216,335 in the previous year, an increase of 53,276. When one is reminded that the year 1923 also showed an increase of 41,211 over the year 1922, the figure is still more In addition, if the same ratio is taken, the Preston Friendly Societies' Medical Association would dispense about 10,000 prescriptions for insured persons on the list of that Institution. There is no record of the private dispensing done by doctors to the uninsured population nor of medicines purchased by the people themselves direct. It is difficult to draw definite conclusions from these figures, but one wonders whether cotton workers are more susceptible to illness than others perhaps more fortunately placed. It should not be overlooked that the doctors' services are now being made use of more freely, and there is a distinct tendency to visit the doctor in the earlier stages of illness than was formerly the case. This feature should ultimately have a favourable reflection in the mortality statistics. Nevertheless the sickness incidence is higher than can be calmly contemplated, and it is to be hoped that the increase in the number of prescriptions is only of a temporary character following on a long period of trade depression, and that with an improvement in trade conditions there will be a general improvement in the health of the town.

Comparing the figures in nine of the Lancashire County Borough areas, Preston consumes 20 per cent. more medicines than any of those nine Boroughs. The general sickness incidence in Preston amongst insured persons is about 3 per cent. There are areas in the town where the sickness rate is as low as 1 per cent., and there are other areas where the sickness rate varies between 6 per cent. and 9 per cent. The total cost of the Drug Bill for 1924 for insured persons alone was £10,266 15s. 4d., an increase of £2,363 over 1923.

MEDICAL LIST.

Including the resident doctor at the Medical Association there are at present 49 doctors on the Insurance Committee's list. There are also 31 Chemists' establishments for the dispensing of medicines, and each establishment has one or more fully qualified registered pharmacist employed there.

NURSING SERVICE.

Towards the end of the year under review very amicable and close co-operation prevailed between the Health Committee of the Corporation and the Insurance Committee on the subject of a skilled domiciliary nursing service. The Insurance Committee records with considerable satisfaction its appreciation of the efforts of the Chairman of the Health Committee (Mr. Councillor R. Durham) and the Medical Officer of Health (Dr. F. A. Sharpe), and hopes the year 1925 will be marked by the successful inauguration of a Nursing Association."

UNEMPLOYMENT.

Mr. Jepson, the Manager of the Employment Exchange, has been good enough to supply the following information. Those figures relating to unemployment in Boys and Girls after September have been supplied by the Director of Education, to whose department Juvenile Unemployment has been transferred.

			TA	BLE IF						
1924		Men.	1	Vomen.	E	Boys.		Girls.		Total.
April		 3,373		2,229		68		104		5,774
May		 3,203		2,149		80		163		5,595
June		 1,946		50L		22		11		2,280
July		 2,801		2,120		75		158		5,154
August		 2,333		1,251		48		36		3,668
Septem	ber	 2,821		2,869		59		124		5,873
October		 2,575		1,155		51		69		3,850
Noveml	ber	 2,332		1,080		65		49		3,526
Decemb 1925.	per	 2,595	***	910		41		29	•••	3,575
January		 2,886		1,022		67		68		4,043
Februar	ry	 2,892		1,334		-		83		4,373
March		 2,661		970		79	***	51		3,761

The above figures represent the numbers on our Live Register at the end of our statistical month. By comparison with the figures for similar period last year it will be noted that there has been a marked decline. This has been due mainly to the fact that in the period under review a decided and general improvement in the cotton industry has prevailed.

There are unfortunately indications that the cotton trade is not so well placed locally as was the case in the latter months of 1924, and my register next week will be a little over 7,000.

For several months past we have been comparatively free from Mill Stoppages, although there has been some under employment in the Preparatory Departments of the Manufacturing Section, viz., Winders and Warpers.

Owing to shortage of orders I have no less than six mills and two other works stopping for extended holidays at Easter, and unless our local manufacturers are successful in securing in the very near future substantial orders or contracts I am afraid that in some instances recourse will have to be had to a system of short-time working.

The electrical engineering in the district has remained fairly and consistently busy, but I am sorry to have to say that our textile machinists and firms engaged in general engineering have suffered rather severely from trade depression, and at the moment there does not appear to be any indications of improvement.

The Motor business has throughout the year been exceptionally busy, and I am given to understand are likely to remain so for some time to come.

The Building Trade has been very brisk, and there does not appear to be any likelihood of any change in this respect for a long time to come. Excepting a few Painters, which are gradually being absorbed, we have no skilled men connected with the building trade out of work.

The Unemployment Benefit paid out during the last quarter, i.e., from January to March inclusive, amounts to £37,508 17s. 5d."

II.—Sanitary Circumstances of the District.

WATER SUPPLY.

The water supply was described in the report for 1920. The work authorised under the Preston Corporation Act of 1921 is now in hand. The new intakes in the Langden Valley and in the Hareden Valley are completed.

The construction of the new reservoir at Longridge is progressing satisfactorily.

The following report was made by the Borough Analyst upon a sample of the town's water submitted on May 25th, 1925:—

Parts per 100,000.

Total solid matter in solution	6.88
Oxygen required to oxidize in 15"	0.034
Oxygen required to oxidize in 3 hours	0.068
Ammonia	0.001
Ammonia from Organic Matter by distillation	
with alkaline permanganate	None
Nitrogen as Nitrates	None
Nitrogen as Nitrites	None
Combined Chlorine	1.05
Total Hardness	3.08

The water was clear, faintly yellow and odourless. It contained a trace of suspended matter which consisted of hydrated oxide of iron, vegetable debris and siliceous particles with algae, diatoms, influsoria, rotifers, anguillulae, insect remains, and particles of a few fungus spores. Reaction to Litmus—alkaline. The water is a very good and soft upland surface water, well suited for drinking and domestic purposes.

(Signed) W. H. ROBERTS, M.Sc., F.I.C., Borough Analyst.

CLOSET ACCOMMODATION.

There are approximately 28,050 fresh water closets, 500 waste water closets, 14 trough closets (exclusive of those in use at Schools) and 28 privy middens, all of which latter are situated on farms and cottages in the rural parts of Ashton, Deepdale, Ribbleton and Fishwick Wards, and are not within reach of a sewer.

The Sanitary Conveniences in use at Factories and Workshops and Schools are not included in the above.

SCAVENGING.

The system in force was described in the report for 1920. The work has been satisfactorily carried out.

WORK OF THE DISTRICT SANITARY INSPECTORS.

DWELLING HOUSES.

The number of inspections and re-inspections are tabulated for each district:—

TAI	BLE	HA.	Inspe	ections.
* * * * *		A A	A SALUE PA	A PEROTED !

		S	ANITARY	DISTRIC	TS	
	No. 1	No. 2	No. 3	No. 4	No. 5	TOTAL
Inspected on Complaint	927	803	855	905	1552	5042
Re Infectious Diseases	53	79	80	110	49	371
Housing and Town Planning Acts	97	107	100	43	25	372
Rent Restriction Act						
, Totals	1077	989	1035	1058	1626	5785

Re-Inspections.

		S	ANITARY	DISTRIC	TS	
	No. 1	No. 2	No. 3	No. 4	No. 5	TOTAL
Inspected on Complaint	2574	1781	IIII	1557	2082	9105
Re Infectious Diseases	9	79	29	250	35	402
Housing and Town Planning Acts	84	182	151	239	129	785
Rent Restriction Act						
Totals	2667	2042	1291	2046	2246	10292

These inspections and re-inspections involved the sending of 3,179 letters with regard to the common defects, i.e., yard flagging, cleansing and limewashing, and provision of dustbins. Also 271 Informal Notices were served in connection with the surveys under the Housing Regulations, 1910, and the Housing and Town Planning Act of 1919. There were also 153 Statutory Notices under the Public Health Acts served by the authority of the Council. Legal action to enforce the requirements of the Council were taken in the following instances:—

Public Health Act, 1875 :-

Sec. 94 (Nuisances)-

Owner ordered by the Court to do the work within 8 weeks.

Sec. 46 (Limewashing)-

Case adjourned for 8 weeks for work to be done.

The results of the work are shewn in Table IIB., 5,162 houses in all have been dealt with. The improvements, repairs and alterations are multifarious and cover practically every possible kind of defect. The work done in connection with the Public Health Acts generally relating to one and only occasionally to more than one defect. That in connection with the Housing and Town Planning Act, relating as it did to the poorer class of property, dealt with a variety of defects in each individual house which were discovered during a thorough sanitary survey.

19

TABLE IIB.

Summary of Work done during the Year 1924.

		Pı	Public Health Acts	ealth Ac	ets.		Ho	using	and To	wn Pla	Housing and Town Planning	Acts.
		S	SANITARY	DISTRICTS	TS			S	SANITARY	DISTRICTS	CTS	
	No. 1	No. 2	No. 3	No. 4	No. 5	TOTAL	No. 1	No. 2	No. 3	No. 4	No. 5	TOTAL
Houses dealt with :-	1245	638	705	686	1151	4728	59	16	75	84	125	434
1 Lighting and Ventilation improved	24	:	91	13	17	70	28	41	7	41	31	148
2 Roofs reconstructed or repaired	49	25	IOI	62	94	313	14	24	2	20	200	88
3 Floors repaired or relaid	22	15	27	22	20	106	4	36	14	18	27	66
4 Fireplaces repaired or provided	5	I	1	12	20	45	4	19	7	18	23	99
5 Staircases repaired	::	3	4	I	:	00	:	I	I	7	7	91
6 Walls and chimneys pointed and												
repaired	58	9	67	35	27	193	22	50	6	33	29	143
7 Repairs and renewals to W.C.											,	2
accommodation	155	103	25	181	272	736	IO	18	I	18	36	83
8 Portable ashpails provided	436	142	129	233	436	1476	I	14	IO	10	IO	45
9 New Sinks or other sanitary fittings		3	44		20	107	9	9 I	00	3	OI	. 43
10 Yard and lobby pavements repaired	75	9	34	22	24	191	5		H	5	15	26
11 Drains tested, repaired or renewed	524	312	193	207	417	1653	:	6	3	4	23	39
12 Gutters and downspouts repaired or												
renewed	97	32	70	.93	71	363	6	26	9	38	23	102
13 Provided with sufficient water supply		:	59	20	9	95		::	:	:::	::	:
14 Plasterwork and limewashing	58	12	89	84	73	316	34	32	5	50	94	215
15 General nuisances	10	28	25	98	26	175	7	20	:	1	II	45

Summary of Work done during the Year 1924.

DRAINS.

A large volume of work was done in connection with sanitary defects arising out of drains. The work done is included in the foregoing table. The inspections were as follows:—

Inspections.

		Si	NITARY	DISTRIC	TS	
	No. 1	No. 2	No. 3	No. 4	No. 5	TOTAL
Street Gullies	I	2	2		20	25
Street Gullies Drains	322	1014	658	174	1068	25 4236

Re-Inspections.

		Si	NITARY	DISTRIC	TS	
	No. 1	No. 2	No. 3	No. 4	No. 5	TOTAL
Street Gullies		3327		292	20 1429	20 6980

Corporation liability. They involved the undertaking of 184 different jobs done partly by Corporation workmen and partly by Contractors. The average time expended on each job was 21.16 hours, and the average cost of labour was £111s. 2d. In January the cost of Corporation labour was 15.67d. and 16.22d. per hour. In July the rate was increased to 16.77d. and 17.32d. per hour. The comparative costs for labour supplied by Contractors were 19d. and 19.5d. per hour. The cost of materials added a further 3s. 2d. to each job. The proportion of the work done by the Council's men and Contractors is as follow:—

				£	S.	d.
Corporation labour, 2,138	hours a	at a	cost of	 146	4	8
Contractors' labour, 1,756	.44			140	10	$9\frac{1}{2}$
Corporation material and	haulage			 12	14	2
Contractors' material	***			 16	6	4
				£315	15	1112

FACTORIES AND WORKSHOPS.

The following tables deal with the premises registered, the number of inspections and the results of such inspections. Of the 147 defects originally found, all were remedied. There is very little out-working done in the Borough, the premises upon which it is carried out have been frequently inspected and found satisfactory.

TABLE IIc.
List of Factories and Workshops on Register during the Year 1924.

		D	ISTRICT			
	No. 1	No. 2	No. 3	No. 4	No. 5	Тота
Artificial Teeth Makers	3		5	7	8	23
Bakers and Confectioners (Retail)	60	38	34	25	35	192
Bakers (Public)		2		I		1
Basket Makers	2	2	2		2	1
Beer Bottlers	3	3	I	1	5	
Biscuit Makers		I	2			13
Boot, Shoe, and Clog Makers, Leather Curriers	26	20	30	26	22	10
Brass Founders			1	1		124
Breweries		1	I		3	-
Brush Makers	1					1
Cabinet Makers, Wood Carvers, Upholsterers	0.00		6		2	3
Coach Builders	5	9		5	10	35
Cotton Waste Cleaners and Dealers	3	2		5	I	II
Cotton Manufacturers		3		2		-
	24	8	13	7	4	56
Coopers	I	I	2	1		5
Cycle Makers and Enamellers	I	6	6	4	6	23
Engravers	3			I	6	10
French Polishers	4	2		2	3	II
ronfounders, Motor Engineers & Boiler Makers	6	10	5	12	9	42
Joiners, Builders, Wheelwrights, Wood Turners	13	18	6	6	II	54
Laundries	3		2			5
Marine Store Dealers		4	2	3	2	11
Milliners, Dressmakers Underclothing Manu-						
facturers	29	48	43	39	37	196
Picture Framers, Mount Cutters, Gilders	2	I	I	I	3	. 8
Photographers	4	2	I	6	3	16
Plumbers, Painters	10	9	12	II	14	56
Printers, Bookbinders		3		8	16	27
Restaurant Keepers	3	25	31	4	4	67
Rope and Twine Makers	2	I				3
Saddlers	2	200	1	2	I	10
Smiths, Black and White, and Tinplate	5	4	5	6	10	
Stone and Marble Masons	9	I	2	I		
Sugar Boilers					1	14
Failors	4	I	8	18	2	
Watch Makers and Jewellers	17	20			34	97
	10	9	3	6	7	35
Vire Workers		2	2		I	5
Fell Mongers		***		1	I	1
Soap Boilers				I	2	3
Offensive Trades Fat and Tallow Melters	I	2		I	2	. 6
Knacker Yards	I					I
Gut Scrapers		1				I
Tripe Boilers	1	2	2			5
Various	5	13	16	30	21	85
T	-6.	-0.		2.6	-0-	
TOTAL	263	284	245	246	289	1327

TABLE IID. Factories, Workshops, Workplaces and Home-Work.

1.—INSPECTION.

	Number of						
Premises.	Inspections.	Written Notices.	Prosecu-				
isits to Warehouses	138						
actories (including Factory Laundries)	113						
Workshops (including Workshop Laundries)	1200						
cluded in Part 3 of this Report)	89		- 11				
Total	1540		()				

2.—DEFECTS FOUND.

	Nun	nber of De	ber of Defects.		
Particulars.	Found.	Remedied.	Referred to H.M. Inspector.	of Prosecu tions	
uisances under the Public Health Act :-					
Want of Cleanliness	27	27			
Want of Ventilation	3	3			
Overcrowding	2	2			
Want of drainage of floors	49	49			
Other Nuisances	16	16			
(insufficient	7	7			
Sanitary accommodation unsuitable or defective	23	23			
not separate for sexes	18	18			
Fences under the Factory and Workshop Act:-					
Illegal occupation of underground bakehouse (s. 101)					
Breach of special Sanitary requirements for bakehouses (s.s. 97 to 100)	2	2			
Other offences (excluding offences relating to outwork which are included in Part 3 of					
this Report)		***			
Total	147	147			

TABLE IIE. HOME WORK.

					- 0	UTWORK	CERS! LI	ST3, S	SECTION 107			OUTWOR PREM	K IN UNWI	HOLESOME ION 108	PREMIS	ORK IN INI	FECTED (S 109, 110.
			100	Liste re	sceived f	rom Emp	loyers.		Notices	Prosecu	tions.						
	NATURE OF	WORK.	Twic	e in the Y	ear.	Ове	e in the Ye	ear.	occupiers as to keeping	Failing to			nstances. Notices served.		Instances. Orders made (S. 110).		Prosecutions (Sections 109, 110).
			Lists.	Con- tractors.	Work-	Lists,	Con- tractors.	Work-	or sending Lists.	keep or permit Inspection of Lists.	Failing to send Lists.					(0.11-)	100, 110).
										- 11							
W	earing Appa	arel :—								100							
(1) making, &	c	13	4 -	17	1	opiniono.										
				1						tot knikati							
(2) cleaning a	nd washing					100000		0.000	10000							
	Total		26	8	34	1			1 41.10	0.100						***	*
	, DEC	ISTERED	WOI	KSHC) PS		-	inich	- Valencia			5	-OTHER	MATTE	RS.		

	4KEO	ISTER	ED WOR	CROTTOT	J.		look has	proof.	
Worksho	ops on the	Register	(s. 131) a	t the end	of the y	ear.	Number.	Class.	Number.
Factories							194	Matters notified to H.M. Inspector of Factories:—	
								Failure to affix Abstract of the Factory and Workshop Act (s. 133) 1901	2
Workshops	s :::		***		***		871	Action taken in matters referred by H.M. (Notified by H.M. Inspector	16
							6.0	Inspector as remediable under the Public Health Acts, but not under the Factory Reports (of action taken)	
Vorkplaces	5			***			67	and Workshop Act (s. 5). 1901 sent to H.M. Inspector	14
Retail Bak	ehouses						192	Other	129
-								Underground Bakehouses (s. 101):	
Puolic	do.						3	Certificates granted during the year	
Т	Total numb	er of Wo	rkshops o	n Register	r		1327	In use at the end of the year	***

TABLE IIF.

Summary of Work done under the Factory and Workshop Act, during the Year 1924.

ASM SERENT METERS OF	No. 1 District.	No. 2 District.	No. 3 District.	No. 4 District.	No. 5 District	Total.
Number of Factories and Workshops on Register	263	284	245	246	289	1327
Out-workers	•••	27				27
,, Out-workers reported		34				34
Visits to Factories and Workshops	7	435	45	54	107	648
,, Retail Bakehouses	60	280	24	48	56	468
,, Public Bakehouses		16		2	95W	18
,, Home-workers premises		28		ox settles		28
Drains tested	4		11	4	13	32
DEFECTS FOUND AND REMEDIED :-	400	f was to	paldeav S		2 (2)	
Defective Drains	4	2	11	3	29	49
,, Slopstone Pipes	I		2		I	4
,, Spouts and Roofs	SHORE	130 W 1	2		2	4
,, Water Closets	to Imp	2	4	14	13	34
,, Yard Pavement			***			
Limewashing required	2		8	15	2	27
General Nuisances Insufficient W.C. accommodation for	3		2			5
Females Insufficient W.C. accommodation for	***		4	7		II
Males		1		- 6		7
No receptacle for refuse			***		2. 14.	
Manure Accumulations	1			3	I	5
Overcrowded	***			I		I
the state of the s	THE PARTY OF	100,0,00		Collins Issue	1	

Total defects found, 147; remedied, 147.

OFFENSIVE TRADES.

The following offensive trades are established in the Borough:-

Fell Monger, 1; Soap Boiler, 3; Fat and Tallow Melter, 6; Knackers Yard, 1; Gut Scraper, 1; Tripe Boiler, 5.

All these premises are subject to frequent inspection. 675 Visits were paid during the year and one nuisance was remedied. The conditions are as satisfactory as the nature of the trade will allow. One bone dealer's premises were re-constructed and re-drained, and 1 tripe works improved.

PIG KEEPING.

There are 18 Pig Keepers in the Borough, 3 of whom have been granted permission since 1918. Nine are Farmers and 10 kept pigs before the War. The

total number of pigs kept is 163.

The sanitary conditions, especially those relating to the distance from inhabited dwellings, drainage, conditions of flloors and buildings, and means of temporary storage of manure are satisfactory in most cases. 43 Visits were made to the premises.

COMMON LODGING HOUSES.

There are 34 Common Lodging Houses on the register, two having been closed since 1916. The accommodation consists of 910 beds in 226 rooms. The average number of lodgers per night is 1,172; twice as many as the average of 1923.

The premises were visited regularly at intervals of 3 days or 3,853 visits in all. Proper conditions as to cleanliness, ventilation, keeping of registers, whitewashing and avoidance of overcrowding, etc., were firmly enforced by the Sanitary Inspectors.

There are no houses let in lodgings on the register. A few which might come under this designation are regarded and treated as Common Lodging Houses.

In 4 instances the sanitary condition of the buildings has been improved, 34 have been limewashed and cleansed, and 16 nuisances abated. In 4 cases the drains were found defective, and were cleansed and repaired.

THE RAG FLOCK ACT.

No samples have been taken.

RATS AND MICE DESTRUCTION ACT.

The advice of the Department was sought by proprietors of infested premises on numerous occasions.. Buildings were inspected as follows:—

Factories 6
Food Preparing Premises ... 27
Groups of Dwelling-houses 57

In 73 instances the cause of the invasion was found to be defective drains. In each case the possibility of further infestation was removed by the execution of the necessary repairs. In these operations over 1,229 rats were destroyed. At a bone dealer's premises, since rat-proofed, over 300 rats were caught. The necessary inspections and supervision of the work entailed called for 294 visits of the staff.

STABLE PREMISES

Have been the subject of 49 visits. As a result 1 stable has been abolished, 11 have been cleansed, 2 new drains installed, new middens provided in 1 instance, covers to middens in 7 instances, 7 old middens abolished, and 5 offensive accumulations abolished, 3 structural repairs carried out.

THEATRES AND CINEMAS.

In 17 Theatres and Cinemas, of which 2 are used for theatrical performances and the remainder as cinemas, the seating is as follows:—

Cinemas, 15. Total Seats, 13,607. Theatres, 2. Total Seats, 4,452.

In accordance with the regulation issued by the Ministry, Circular 120, 25/8/20, each place of entertainment has been visited and a certificate issued to the proprietor for presentation to the Licensing Authority, who require such certificate before they can grant the licence. This certificate must state that the premises are satisfactory in sanitary and other respects. Special attention has been paid to ventilation, cleanliness, condition of the dressing rooms and, in the case of picture houses, the proximity of the front seats to the screen. The standard laid down in the Interim Report of the Joint Committee on Eyestrain in Cinemas appointed by the Illuminating Engineering Society in October, 1919, which has been adopted, was given in the report for 1921.

By the adoption of this standard, the removal of 6 rows of seats in 2 cinemas was effected.

In 2 cases cinemas were unsatisfactory as regards ventilation, and have been improved. One, unsatisfactory in sanitary and other respects, has been abolished.

During the year the District Inspectors paid 73 official visits to places of entertainment.

SHOPS ACTS 1912 and 1913.

The administration of these Acts was transferred to the Police on January 1st, 1924.

MISCELLANEOUS.

In addition to the work under the foregoing heads, a large volume of inspection under miscellaneous heads was carried out. These were:—

Hospitals 8 visits.
Tents and Vans 108 visits.
Offensive Accumulations 10 visits.
Animals so kept as to cause a nuisance ... 24 visits.

SMOKE OBSERVATIONS.

The question of the reduction of the permissible limit of Black Smoke was unsuccessfully brought before your Committee in December, 1922.

There are approximately 135 factory chimneys in the Borough, and observations have been made upon 77 of them. The pollution of the atmosphere is severe, and must have a serious effect upon the health of the inhabitants. Observations showed that the chimneys could be classified into good, moderate and bad. The conditions show an improvement over those of last year.

There were 4 which at one or another observation emitted black smoke for five or more than five minutes in the half hour (Group A), 25 chimneys did not reach the five minutes (Group B), and 49 chimneys were not observed to emit black smoke during any part of an observation (Group C).

The result of the observations are tabulated below. The whole of the observations made in each group of chimneys are included, although black smoke was not necessarily in the case of groups A and B emitted at each observation.

TABLE IIG.

	GROUP.					
810	Α.	В.	C.	TOTAL.		
NUMBER OF CHIMNEYS	4	25	48	77		
No. of Observations of 30 minutes' duration	6 i	162	160	383		
Time in Minutes:—						
BLACK SMOKE	1981	2103		409		
Average per Observation	3.25	1.30		1.07		
MODERATE SMOKE	698	20664	563	3327		
Average per Observation	11.44	12.75	3.5	8.68		
NONE OR SLIGHT	9331	25821	4237	7753		
Average per Observation	15.3	15.94	26.4	20.24		
Total Observations (Minutes)	1830	4860	4800	11490		
No. of Chimneys with :-						
Mechanical Feed only	I	6	7	14		
Forced Draught only		3		3		
Both Mechan, Feed & Forced Draught		4	7	II		

Nature of Smoke Prevention Appliances in use in the Borough.

NAME	No. of Mills	No. of Boilers
Leache's Patent	3	3
Proctor's do	18	55
Johnson's do	2	6
Green's do	3	8
Hodgkinson's do	I	2
Binnes' do,	4	5
Meldrum's do	2	6
Bridge's do	I	2
Underfeed Patent	I	4
Whittaker do	1	I
Without Specific Appliances	76	132

DISINFECTION.

The Disinfectors are responsible for the disinfection of premises after infectious disease and after death from Tuberculosis or change of address of persons suffering from Tuberculosis. The work is summarized below:—

TABLE IIH.

			No.1	No.2	No.3	No.4	No.5	Total.
Beds			81	52	85	69	55	342
Mattressses			27	22	31	14	11	105
Bolsters			93	60	88	66	53	360
Pillows		D	209	196	231	142	111	889
Other items of I	Bedding	etc.	163	110	148	121	86	628
Houses			199	173	230	108	110	820
Rooms			310	271	332	168	172	1253
Schools			I		1			2
Institutions			4	8		2		14
Jumble Sales			4	14	. 5	. 11	5	39
Picture Palaces			12	12	12	12		48
Vehicles				3				3
Books			20	3	22	14	12	86

REPORT ON THE ADMINISTRATION OF THE CANAL BOATS ACTS, 1877 and 1884.

The records shew that 57 Boats have been registered, of which 29 have been cancelled, thus leaving 28 on the Register. Of this number 6 are laid up or under repairs, leaving 22 for transport purposes. Two infringements of the Regulations were found, these were promptly dealt with on informing the owners. One boat, the "Mary Ann," has been broken up.

On inspection, the Boats were found in a fairly satisfactory condition.

No case of infectious disease was reported during the year.

The work of Inspection has been carried out by Inspector W. Baron in addition to his other duties as Port Sanitary Inspector, no special remuneration being provided for this part of his work.

The following table shews the details of occupation and inspection for the past 3 years:—

		1922	1923.	1924.
Number of Inspections		 288	 46	 189
Males in Occupation	***		26	
Females in Occupation		 15	 14	 14
Children in Occupation		 7	 5	 6

TABLE III.

Amount of Shipping entering the Port Sanitary District during the Year 1924.

				Number 1	Inspected	Number	Number
		Number	Tonnage	By the Med. Officer of Health	By the Sanitary Inspector	to be defective	of Orders Issued
(Steamers	221	196657	43	208	50	50
Foreign	*Motor						****
Foreign	Sailing	3	1750	2	2		
(Fishing						
Total Forei	gn	224	198407	45	210	50	50
Coastwise	Steamers	1147	179609	36	914	265	265
Construise	*Motor	12	3266		12		
Coastwise	Sailing	6	729	3	6		
Dist.	Fishing						
Total Coas	twise	1165	183604	39	932	265	265
Total Forei Coastwise		1389	382011	84	1142	315	315

^{*}Includes mechanically-propelled vessels other than steamers.

TABLE IIJ.

Rats destroyed by dogs, traps and ferrets, and number of Baits set for destruction of Rats in 1924.

Number of	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov	Dec.	Total In Year
Black Rats	3								1			5	9
Brown Rats	47	56	48	52	54	36	43	44	33	27	32	21	493
Grey Rats	39	48	37	37		43	55	52		444	71	50	970
Rats examined.													
Rats infected		1 3 3		183	100			Ray					
with Plague				***								***	
No. of Baits set.	500	530	570	495	985	1070	815	935	1015	815	930	940	9600

TABLE IIK.

Precautions Against Plague.

Particulars Relating to Vessels " Infected " or " Suspected," or from Infected Ports.

Whether a certificate of Deratisation	was issued?	In the case of SS. Debregzen	
Number of	Nats Milea	555	
Method of Rat Destruction employed.	Trapping, poisoning, etc.	Both.	
Whether infected, suspected or	from an infected Port?	From Infected Port.	
Date of	Arrival.	Sep. 29th, '24. Oct. 20th, '24	
.Name of	Vessel.	SS. Telemachus SS. Debregzen SS. Argos SS. Gothea SS. Lifland SS. Lifland SS. Trito SS. Ulrikka 2nd SS. Witzerland SS. Willocrat SS. Switzerland SS. Switzerland SS. Poina SS. Polmanter SS. Polmanter SS. Odland	

Vessels (other than those dealt with in Table IIk.) subjected to Measures of Rat Destruction.

TABLE IIL. Return of Port Sanitary Work for the Year 1924.

	Steamships Inspected	1				208	
Foreign	Sailing Vessels Insp	ected				2	
	Re-Inspections					Nil.	
	Steamships Inspecte	ed				926	
Coastwise						6	
	Re-Inspections					300	
G 11.1	of all Vessels Inspecte	. Good	i			827	
Condition	of all Vessels Inspecte	Defe	ctive			315	
	DEFF	ECTS REM	EDIED				
	re-painted					 18	
	cleansed					 194	
Dirty Lock	cers, Washhouses, Ste	ore Roon	ns, etc.	cleans	ed	 279	
Foul Wate	er Tanks cleansed					 104	
Do. Bilge	s cleansed					 	
Do. and o	defective W.C.'s clear	nsed and	repair	ed		 157	
Accumulati	ions of Offensive Ref	use remo	ved			 29	
Gear store	d in Crew's Quarters	removed				 3	
Damp Qua	arters remedied					 8	
Leaky Dec	ks overhead caulked					 8	
Defective I	Port-lights, Sky-lights	, and De	ad-light	ts reme	edied	 22	
	Ventilators repaired					 	
	Chain Pipes repaired					 4	
	Drainage remedied					 	
	Lavatories and Waste		epaired			 10	
	eys Cleansed					32	

The Chief Imports.	Source.	The Chief Exports.	Destination.
Wood Pulp		General	Dublin & Belfast,
Timber	and Finland. Canada, Norway.	Coal and Coke	Ireland, Norway, Sweden, etc.
	Sweden & Finland.	Salt Cake	Norway and
Stone			Sweden, etc.
art ar	Wales & Ireland.		
China Clay			
Potatoes Live Stock			
Esparto Grass			
Cement			
General	Sweden, Belfast,		
	Dublin, London		
	and Norway.		
Whiting	London and		
Motor Calult	Cornwall.		
Motor Spirit	London. Wales.		
States	vv ares.		

In addition to the measures of rat destruction as set forth in Table IIk, it should be stated that the Port Sanitary Authority employ a whole-time rat catcher, who acts under the instruction of the Port Sanitary Inspector, Mr. Baron, himself a whole-time officer. Every foreign ship is visited by the rat catcher and dealt with according to the necessity of the case. The methods used are trapping by cage and spring traps, rat-catching varnish, poisoning by phosphorus, squills, barium carbonate, etc., and killing by ferrets and dogs. Judging by the number of baits set it is estimated that a total number of 1,472 rats were destroyed in the year, of which 150 were poisoned on ships other than those dealt with in Table 2k. 405 rats were caught in traps, and 555 were caught on ships arriving from infected ports. The estimated total rats caught is 2,400.

Public Health (Unsound Food) Regulations, 1907.

LIST OF IMPORTED ARTICLES INSPECTED,

Wheat	Barley	Flour	Oatmeal	Sugar	Nuts
Herrings	Sardines	Brislings	Beef	Pork	Mutton
		Potatoe	es.		

LIST AND WEIGHT OF ARTICLES CONDEMNED AND DESTROYED.

				Tons.	Cwts.	Qrs.	Lbs.
Beef	2	 91	 	0	9	I	24
Mutton		 	 	0	0	3	14
Potatoes		 	 	4	14	0	0

THE PRESTON (SHELL FISH) REGULATIONS, 1923.

These Regulations forbidding the picking of Mussels for human food, in the estuary of the River Ribble, came into force in October, 1923. Since then placards have been posted in prominent places on both sides of the River and at Preston. All the fishermen on both the north and south sides of the River and at Preston have been served with a copy of the Notice. The mussel beds have been visited regularly by Inspector William Baron, who paid 20 visits to these beds during 1924.

On the 24th of March, 1924, a Lytham fisherman was fined £5 and costs for a contravention of the above-named Regulations.

III .- Food.

By R. FINCH, F.R.C.V.S., D.V.S.M.

MILK SUPPLY.

Milk retailed in the Borough amounts approximately to 6,390 gallons daily.

It is produced and distributed as follows:-

11 Dairy Farmers and 3 Cowkeepers in the	Borough	produce	and	retail	400	galls.
27 Dairies in the Borough retail					1036	,,
48 Resident Kitters in the Borough retail					1704	,,
28 " Mixed Business " Shops retail					343	,,
101 Dairy Farmers outside the Borough p	roduce an	nd retail			2907	,, -

There are 4 Dairy Farmers and 2 Cowkeepers less producing milk in the Borough than there were last year. On the other hand, there is an increase of 13 in the number of Resident Kitters and there are 18 more Dairy Farmers delivering milk from outside the Porough. The shops of the mixed business type have been reduced from 74 to 28.

The supervision of the Milk Supply has necessitated the following work :-

Visits to Dairies, Cowsheds and Milkshops in the Borough-	
By Veterinary Officer	75
By District Sanitary Inspectors	773
Number of Examinations of Cows by Veterinary Officer	997
Number of Visits outside the Borough by Veterinary Officer	
to investigate Tuberculous Milk Samples	49
Number of Visits outside the Borough by Veterinary Officer	
to investigate Contaminated Milk Samples	34
No of Samples of Milk taken for examination :-	
	924.
For Tubercle Bacillus 51 51	229
At Borough Laboratory for dirt contamination 154	304
Under Food and Drugs Act 133	9

The policy of sampling for examination at the Borough Laboratory as a preliminary to sampling under the Food & Drugs Acts has been continued. This, coupled with frequent sampling for the detection of the Tubercle Bacillus at the Public Health Laboratory, Liverpool, is considered the best means of ensuring the public against contaminated, adulterated, or tuberculous milk.

Considerable sanitary alterations and improvements have been carried out at several of the farms situated in the Borough. Further recommendations have been made with regard to structural alterations of others. There is a tendency to

withhold any expenditure on these farms, as the land is being gradually sold off for building purposes, thus diminishing the value of the farm buildings as such.

I. TUBERCLE BACILLUS IN MILK.

162 Samples of mixed milk were examined for the presence of Tubercle Bacillus; 19 of these were found positive requiring a further 67 samples. This gives a percentage of 11.73 positive (last year's percentage which was taken from 51 samples was 17.67). Each one of the positive samples has been followed up and investigated in order to eliminate the cow or cows giving Tuberculous milk. In all the cases, except three, the source of infection was discovered either on the primary visit by clinical veterinary examination or later by a process of further sampling. In the three remaining cases animals had been sold off the premises prior to the completion of veterinary investigation and as further sampling of these herds showed the milk to be free from Tubercle Bacilli it is presumed that the affected cows had been sold off. Two farms had two cows in each herd affected with Tuberculosis of the Udder.

II. GRADE "A" AND CERTIFIED MILK.

There are no Grade "A" producers in Preston. There is one retailer who sells "Certified" milk which is of a higher quality than Grade "A" milk.

III. Examination for the approximate amount of Butter Fat and Manurial Contamination.

The examination of these samples is carried out by your Veterinary Officer in the Borough Laboratory.

Out of a total of 304 samples submitted from the various sources 79 were found to be unsatisfactory for one or more of the following reasons:—

Manurial contamination visible to Discoloured owing to absorption			74 22
Sour	 		 7 .
Deficient in fat content	 		 1
		1923.	1924.
Number of samples examined	 	154	 304
Number of samples defective	 	72	 79
Percentage defective	 	46.7	 26.0

The Public Analyst shows that the average fat content of the samples taken under the Food and Drugs Act was 3.92 per cent. (9 samples) as against 4.29 per cent. for 133 samples taken in 1923.

All persons from whom unsatisfactory samples of milk have been taken were notified of the conditions found. They are also supplied with literature on the production of clean milk. A further sample is taken at a later date to ascertain if the measures suggested have been sufficient.

In addition, 83 personal visits have been made to farms in conjunction with the Medical Officer of Health for the Preston Rural District Council in order to investigate on the spot the more seriously contaminated supplies.

It was apparent on these visits, without exception, that there was ample cause for contamination to be found in the unsatisfactory methods adopted or through dirty conditions of the cows or utensils. These visits have had beneficial effects, nevertheless the producer is not likely to alter his present methods for more costly ones, without the stimulus of a better market which means a better price.

The grooming of cattle and the sterilisation after previous washing of milking utensils, although recognised by all dairy experts to be two essentials in the production of clean milk, are not often items in the daily routine of many of the present-day producers.

The personal element which counts so much in the cleanly production of milk is also at fault, as many producers are dirty in their methods, in their clothing, and equipment in general. Education of the public as to the necessity for a clean milk supply is of the greatest importance. This at the present time being done to a great extent by frequent articles in the daily press and agricultural papers, and it is to be hoped that with the higher standard of education now obtaining this knowledge will be absorbed by both the public, who are consumers, and the dairy farmer, as the producer.

As far as Preston is concerned the grading of milk by legislation has not proved a success, and I maintain, as stated in my last report, that a standard should be adopted below which milk cannot be sold. Matters which should appeal to the public, and which every dairyman who wishes to succeed in his business should adopt, are :-

- 1. A clean milk cart.
- 2. Clean milk churns and cans.
- 3. Person in charge dressed in a suitable washable overall.
- 4. The adoption of taps instead of open kits for the withdrawal of milk or the retailing of it in bottles.

IV. MILK AND CREAM REGULATIONS, 1912 AND 1917.

One sample of cream and 10 samples of preserved cream were purchased, each of which met the requirements of the above regulations.

V. ICE CREAM.

The conditions are as described in the report for 1922. 70 Visits of inspection were paid. It would be of great advantage if the manufacture and sale of ice cream were subject to annual licence and registration.

CONTAGIOUS DISEASES OF ANIMALS ACT.

The diseases scheduled under the Diseases of Animls Acts are :-

Cattle Plague. Pleuro-Pneumonia.

Sheep Scab. Swine Fever. Rabies. Anthrax.

Sheep Pox.

Foot-and-Mouth Disease. Epizootic Lymphangitis. Parasitic Mange Glanders and Farcy.

(Horses).

Epizootic Abortion (Cattle).

It is the duty of the Local Authority to carry out the work in connection with the above diseases, when they occur, inside the Borough. In connection with this work the Cattle Market, Railway Station, Pig Keepers' premises, Knacker Yard, and occasionally other premises where animals are housed have to be visited. The following table gives the number of visits paid to the various premises in the course of inspection work:—

Cattle Market and Saleyard ... 92 visits.
Other premises 21 visits.

Number of live animals inspected from January 1st to December 31st, 1924-

TABLE A.

Cattle.	Sheep.	Pigs.	Calves.
Fat—9,060 Store & Dairy— 15,340.	60,963.	10,998,	8,495.

Horses ... 2,481.

Dogs ... 2

The following cases of diseases were dealt with:-

ANTHRAX.

Four cases of Anthrax were reported, and confirmed by microscopical examination both by the Board of Agriculture and your Veterinary Officer. In addition to which several blood smears were taken from animals which had died suddenly and where there was a suspicion that Anthrax might have been the cause of death. Of the four cases referred to, three of these were discovered in animals (cows) which had been brought in to the Public Abattoir for the purpose of dressing and for preparation of food. As each of these cases was an emergency slaughter on the farm of origin outside the Borough, formal notification was sent to the appropriate Local Authority so that proper measures could be taken without delay to prevent the spread of the disease. In order to prevent carcases infected by Anthrax being brought to the public abattoir more stringent methods are being enforced. In addition to the probability of Anthrax spores from spilt blood being distributed broadcast, dangerous' to human life and a source of infection to live animals coming in contact with ground infected by the slaughter of the animal, considerable expense was incurred in the destruction of the carcase and efficient disinfection after each case. The fourth case of Anthrax was found at the knacker yard and was suitably dealt with. All these cases were dealt with under the Anthrax Order, 1910.

EPIZOOTIC ABORTION.

Two suspected cases were reported during the year at the Saleyard. As it was impossible to get the necessary evidence that the animals had calved prematurely, no action was taken under the Epizootic Abortion Order, 1922.

FOOT AND MOUTH DISEASE.

On account of an outbreak of Foot and Mouth Disease in the prescribed area the market was practically closed during February, March and April.

As in the preceding year the Borough has been fortunate enough to escape from an outbreak of this disease.

Efficient control of the movement of live stock by means of the Animals Transit and General Order, 1924, which deals with the efficient disinfection of lairages, railway trucks, boats, etc., have been contributing factors in preventing the outbreak becoming widespread throughout the country. As an epidemic of Foot and Mouth Disease is liable to occur at any time from foreign infection it behoves all local authorities to have efficient veterinary supervision of markets and saleyards so that the first suspicion of this disease can be promptly and efficiently dealt with and infection limited.

The following brief particulars are given of the total number of outbreaks in England, Scotland and Wales for 1924:

England, 1,363; Scotland, 47; Wales, 30. Cheshire had 362 and Lancashire had 98 of these outbreaks.

Numbers of animals slaughtered:-

Cattle, 42,737; Sheep, 28,362; Pigs, 17,548; Goats, 78.

Amount paid in compensation, £1,392,417.

In 1882, a year of exceptional prevalence, there were 18,737 separate outbreaks, and 219,289 cattle, 217,492 sheep, and 24,232 pigs were slaughtered.

PARASITIC MANGE.

Five cases involving five animals on five different premises were reported and dealt with under the Parasitic Mange Orders, 1911 and 1918. In each case the animals were suffering from the psoroptic form.

RABIES.

Two cases of suspected Rabies were reported. On investigation neither of these was confirmed. At the present time this country is entirely free from this disease.

SWINE FEVER.

Two cases were reported and neither was confirmed on investigation. Restriction of Movement Order was served on one premises, and this was withdrawn after a period, during which the animals were kept under observation.

ORDERS ISSUED BY THE MINISTRY OF AGRICULTURE AND FISHERIES.

In addition to the various Foot and Mouth Disease Orders issued during the year and the miscellaneous Orders already in force, the following are new Orders introduced during the year:—

Jan. 23rd. Foreign Hay and Straw (Amendment) Order, 1924.

Feb. 18th. Diseases of Animals (Arbitration) Order, 1924.

,, 29th. Foreign Animals (Amendment) Order, 1910. (No. 1).

,, 29th. Foreign Hay and Straw (Amendment) Order, 1924. (No. 2)

Mar. 14th. Foreign Animals Order, 1924.

April 7th. Foreign Animals (Amendment) Order, 1910. (No. 2).

,, 7th. Foreign Hay and Straw (Amendment) Order, 1924. (No. 3).

,, 15th. Channel Islands (Amendment) Order, 1924.

,, 15th. Animals (Transit and General) Order, 1924.

May 15th. Canadian Cattle (Marking) Order, 1924.

July 15th. Foreign Animals Order, 1924. (No. 2).

,, 15th. Imported Animals Order, 1924.

Aug. 22nd. Order amending the Sheep (Double Dipping) Order, 1920.

,, 20th. Foot and Mouth Disease (Amendment) Order, 1924.

Sep. 20th. Animals Transit and General (Amendment) Order, 1924. (No. 2).

,, 29th. Order amending the Foreign Animals Order, 1910.

,, 29th. Foreign Hay and Straw Order, 1924. (No. 4).

Oct. 1st. Amendment of Animals (Landing from Ireland, Channel Islands, and Isle of Man) Order, 1923.

,, 15th. Foreign Hay and Straw (Amendment) Order, 1924. (No. 5).

,, 15th. Order amending the Foreign Animals Order, 1910.

,, 20th. Imported Animals Order, 1924. (No. 2).

,, 28th. Imported Animals Order, 1924. (No. 3).

Many of these Orders impose new work upon the local authorities thereby increasing its work of inspection.

IMPORTATION OF LIVE STOCK FROM IRELAND.

The following figures show the number of animals which were landed from Ireland at the Preston Docks during 1924:—

Cattle, 25,817; Sheep, 44,223; Pigs, 690.

The number of these which had to be slaughtered as casualities or for emergency reasons, are as follows:—

Cattle, 6; Sheep, 145; Pigs, 4.

The carcases of these are carefully inspected before being passed as fit for food. All carcases or portions condemned are included in the general list of diseased conditions for which meat is condemned. The Veterinary Inspection of all animals arriving at the lairage is carried out by the Ministry of Agriculture.

MEAT AND FOOD INSPECTION.

HOME KILLED FRESH MEAT.

As stated in my previous annual report, this is about 55 per cent. of the total meat consumed in the Borough. The remaining 45 per cent. consisting of—Foreign, Chilled, Salted or Preserved.

FRESH HOME KILLED.

With the exception of occasional small consignments from Birkenhead abattoirs, all this meat is killed and inspected either at the public abattoir or the private local slaughterhouses.

SLAUGHTERHOUSES.

In 1896 there were 83 licensed slaughterhouses, to-day there are 13. The following table shows their reduction since 1914:—

TABLE IIIA.

	1914.	1920.	1921.	1922.	1923.	1924.
Registered	 _	Ш	LINE.	_		
Licensed	 21	14	14	14	14	13

The following tables show the number of animals slaughtered and inspected at the public abattoir and private slaughterhouses respectively. These returns have been kept separate in order to show by comparison the number of animals killed and inspected in the public abattoir as compared with the number killed and inspected in the private slaughterhouses:—

TABLE IIIB.

Public Abattoir.

Cattle.	Sheep.	Pigs.	Calves.	
Killed, Inspected.	Killed. Inspected.	Killed. Inspected.	Killed, Inspected,	
4,070 4,450†	20,691 21,464	1,940 3,158*	2,325 2,384	

PRIVATE SLAUGHTERHOUSES

(including the Co-operative Society slaughterhouse and slaughterhouse attached to the Lairage).

Cattle.	Sheep.	Pigs.	Calves.
Killed. Inspected.	Killed. Inspected.	Killed. Inspected.	Killed, Inspected.
2,237 2,259	15,122 11,392	2,540 7,603	446 453
Totals— 6,307 6,709†	35,813 32,856	4,480 10,761*	2,771 2,837

[†]Excess due to Foot and Mouth Disease Restrictions.

To carry out the work of supervision and inspection of all animals slaughtered inside the Borough at the various places has necessitated a large number of visits by both the Veterinary Officer and the Meat Inspector, as the accompanying table shows:—

TABLE IIIc.

	Veterinary Inspector.	Meat Inspector.	Sanitary Inspector.
Visits to Public Slaughterhouses . Visits to Private Slaughterhouses .	-3	3 ²² 178	165
Visits to Butchers' Shops	****	202	165

These totals do not include the visits to the slaughterhouse at the Lairage, as there is there a permanent Port Sanitary Official always on duty, and he acts in the capacity of meat inspector when occasion arises. The large number of visits to the butchers' shops were necessary in order to have under inspection and control 6,281 pigs which have been killed and dressed in the country, and brought into the shops. This number compares with 4,176 pigs in the previous year's report, which only accounts for 10 months of the year. It is anticipated that this inspection of pigs in shops will be considerably reduced as the result of the new Meat Regulations, which come into force on April 1st, 1925, and which provides for compulsory notification of intention to slaughter all animals for public consumption.

^{*}Excess due to country dressed pigs coming in direct to the shops.

The weight of meat condemned and surrendered as unfit for human consumption was 108 tons 9 cwts. o qrs. 2 lbs.

TABLE HID.

Anima1	Whole carcases	Part carcases	Offal.	Total
Cattle Sheep Pigs Calves	131,768 lbs. 3,963 ,, 7,277 ,, 5,042 ,,	40,352 lbs. 197 ,, 1,076 ,, 97 ,,	39,637 lbs. 1,436 ,, 12,046 ,, 39 ,,	211,757 5,596 20,399 5,178

72 Tons 5 cwts. was condemned on account of Tuberculosis.

Table IIIE, gives the number of the various organs condemned for Tuberculosis and other conditions.

With regard to Tuberculosis of the Udder (marked * in table) particular care has been taken to compile this return as it gives some idea of the extent to which this disease can affect the mammary gland with serious consequences to the milk supply.

In all these cases an effort was made to trace where the particular animals came from, and it is satisfactory to know that none of these, as far as could be ascertained, had been in any milking herds supplying milk to the Borough, with the exception of such cases as were discovered during the process of inspecting dairy herds, and which cases were slaughtered under supervision.

TABLE IIIE.
Various Organs.

	Tuberculosis.				Other Conditions.			
	Cattle	Sheep	Pigs	Calves	Cattle	Sheep	Pigs	Calves
Head	282				36	6	2	
	383	•••	444				1	6
Lungs	1537		451	4	101	46	43	
Liver	272		312	I	321	410	48	2
Heart	63		162		9	4	16	2
Spleen	57				6			
Kidneys					26		2	
Udder					197			
Stomach	-				I			
Skirts					9			
Mesentery			37		I			

TABLE IIIF.

Causes of Condemnation in detail.

Disease.	Cattle.	Sheep.	Pigs.	Calves
	lbs.	lbs.	lbs.	lbs.
Tuberculosis	146,919		14,830	91
Dropsy	26,744	1,591	316	465
Septicaemia	11,439	195	25	141
Fevered	7,635	288	322	82
Fractures and Bruising	5,561	150	347	257
Anthrax	2,025		***	
Decomposition	1,515	136	235	46
Mammitis	1,468		22	
Asphyxia	1,150	1,366	1,805	300
Distomatosis (Liver)	1,147	387	***	
Peritonitis and Enteritis	985	280	305	243
Angioma (Liver)	851			
Actinomycosis	774			
Abscess	759	38	85	35
Septic Peritonitis	615			
Parasitic Cysts	594	186	130	5
Pneumonia and Pleurisy	510	55	161	15
Fatty (Liver)	371	3		
Cirrhosis (Liver)	367	795	193	
Arthritis	266		58	
Tumour	58			
Nephritis	4			
Pyaemia			336	
Immaturity (Calves)	***			3361
Erysipelas (Swine)			1010	
Jaundice		52	219	137
Lymphadenitis		74		
Totals	211,757	5,596	20,399	5,178

TABLE IIIG.

The following table gives the number of whole carcases (602) condemned for the diseases stated:—

Disease.	Cattle.	Sheep.	Pigs.	Calves.
at managetic by seeming put of		To an one had		
Fuberculosis	178	rent mainte	15	2
Dropsy and Emaciation	61	39	4	6
Septicaemia	28	2	3	2
Fevered	18	2	3	4
Anthrax	3			
Decomposition	2	2		1
Asphyxia	1	51	7	8
Pyaemia			1	
Írticaria			1	
Erysipelas (Swine)			4	
mmaturity (Calves)				133
Peritonitis		3	3	6
ymphadenitis		I		
aundice		1	2	2
Bruising, Fractures, etc		2		I
and self model of the Paper of the Control of the C	7 1 1 1		Wall off	
Totals	291	103	43	165

OTHER FOODS.

Preston Corporation Act, 1921, part 6, section 45—46, provides for the registration of premises used for the manufacture, etc. of potted meat, and for proper precautions against contamination of sausages and other such foods. A register has now been prepared, giving the names and addresses, and the amount and kind of food manufactured of all food preparing premises inside the Borough. The total number of which is 92. This number consists mainly of butchers shops, who, in addition to selling meat, manufacture one or other of the following prepared foods:—potted meat, polonies, saveloys, sausages, dripping, brawn, black puddings and tripe. Of the total number 12 of these manufacture on a large scale.

Generally speaking, the premises of the small manufacturers, although kept reasonably clean, are not what would be considered suitable premises for the manufacturing of prepared foods. This manufacturing on a small scale will be kept under careful supervision with regard to cleanliness, a freedom from contaminating influences, and any infectious or contagious diseases in the household or shop. In addition to the above premises are the fish friers, and tripe manufacturing premises, which are regularly visited for the purposes of inspection by the Food and District Sanitary Inspectors.

The wholesale manufacturers of food in addition to being registered and under our supervision, are also controlled by the Factory and Workshops Acts Inspectors. These premises are not all in keeping with modern requirements, and considerable difficulties are experienced in making suitable structural alterations. It is necessary to emphasize the necessity for greater cleanliness and care in the handling, preparation, storage and distribution of such foods. Under the new Meat Regulations, 1924, further powers are given with regard to the condition of premises, where meat is exposed, deposited, or in the course of preparation, and such regulations will be strictly enforced.

In connection with the work of compiling this Register and the inspection of all Food Preparing Premises the following visits have been made:—

By the Veterinary Officer	 	***	 198.
By the Meat Inspector	 		 116.

MEAT MARKET.

The meat is all submitted to inspection prior to its exposure for sale. The stalls are carefully inspected every Saturday, attention being paid to the quality and condition of the meat and the cleanliness of the stalls, etc.

Number of visits made-

By the Veterinary Officer	 	 	62.
By the Food Inspector	 	 	117.

FRIED FISH SHOPS

Have been the subject of 183 visits by the District Inspectors. The conditions are satisfactory. Sanitary improvements have been effected in 10 instances.

The wholesale Fish Market is regularly supervised by Inspector Crossthwaite, 275 visits being paid. The retail markets (1028 visits) are also continuously examined.

The neighbouring Port of Fleetwood supplies the largest amount of fish to the town and the outlying districts, although consignments are received almost daily from many other fishing centres, viz.:—

Wet Fish—Grimsby, Milford Haven, Hull, Swansea, Peterhead, Glasgow, Campbeltown, Rothesay, Oban, Liverpool, Eyemouth, Baltimore, Londonderry, and Killibegs.

Dry Fish-Lowestoft, Yarmouth, Hull, Fraserburgh, and Wick.

Shell Fish-Cark-in-Cartmell, and Barra (Oban).

Rabbits-Dumfries, Kirksanton (Carnforth), Lazonby, Dalbeattie, and Hereford.

The quantity of goods reaching the markets and the amount condemned are as follows:—

TABLE IIIH.

Weight	C	Rabbits, Game. Poultry, Fruit Vegeta						Dry	She	ll Fi	sh.	Totals.						
Examined	T. 41	C.	Q. 2	т.	c.	Q.	T. 3017	C.	Q. 3	т.	C.	Q.	т. 73	c.	Q. 3	т. 3486	c.	Q. 21/4
Condemned	0.	1	1	1	17	I 1/4	6	0	$2\frac{1}{4}$	1	2	3	0	2	0	9	3	$3\frac{1}{2}$

The possibilities of danger to the public health arising from shell-fish was reported upon by the Inspector for the Ministry of Health, and resulted in the publication of the Preston Shell-fish Regulations, 1923, by which the taking of mussels for food in the Ribble Estuary has been rendered illegal.

The Butter and Fruit Markets are subjected to frequent inspections. 84 visits were paid by the Veterinary Inspector, 146 by the Food Inspector, and 556 by the District Inspectors, making a total of 786.

TABLE IIII.

Public Analyst's Report.
Sale of Food & Drugs Act. Action taken in regard to Adulterated Samples.

Action taken.	Formal Sample taken. Fined £5 and advocate's fee of	Further Sample taken and found genuine.	Fined £2 2s. od. and advocate's fee, or 14 days.	Formal Sample taken and found genuine.
Amount of Adulteration.	41.5° u.p. = 6.5° below standard. 40.4° u.p. = 5.4° do.	42.5° u.p. = 7.5° do.	Fat, 2.98%. Other Solids, 7.22%. Total Solids, 10.20%. Sample contained 15% added water.	Sample consisted of dried peas.
Informal.	H :	н	:	н
Formal,	: "	:	н	:
Number of Sample,	137	515	225	252
Number Adulterated.	£ ::	:	н	I
Number Genuine,	I :	:	∞	H
Number Analysed.	4 ::	:	6	
Articles Purchased.	Whisky Do.	Do	Milk	Rice

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	Action taken.	No action taken owing to new regulations coming into force at time of purchase. No action taken. Do. Do. Do. Do. Do. Do. Do. D
r unne smarks s vepour (communed)	Report.	Incorrectly labelled. Do. do. Eat, 54.4%. Borates, 0.24%. Contained Borates, 0.68%. Do. 2.3 gr. Salveylic Acid perpint. Do. 2.2 gr. Quinine Hydrochlor. Do. 6.2% Tartaric Acid. Do. 8.1% absolute Alcohol. Do. 40. Do. 20.1% Camphor. Do. 20.1% Camphor. Do. 99.0% Tartaric Acid. Do. 99.0% Tartaric Acid. Do. 99.0% Tartaric Acid. Do. 99.0% Potass. Hyd. Tartrate. Do. 0.33% Borates. Do. 0.33% Borates. Do. 0.32% do. Do. 0.32% do. Do. 0.32% do.
	Number of Sample,	234 234 235 237 233 233 233 233 233 233 233 233 233
	Number Genuine.	0 : : : : : : : : : : : : : : : : : : :
	Number Analysed.	0::::::::::::::::::::::::::::::::::::::
	Articles Purchased.	Dried Milk Do. Do. Do. Do. Do. Do. Lemon Squash Do. Lemon Crystals Tinned Peas Orange and Quinine Wine Do. Camphorated Oil Sulphur Ointment Tartaric Acid Cream of Tartar Mince Meat Do. Sausage Do.

IV .- Prevalence of, and control over, Infectious Diseases.

The seven principal Zymotic Diseases—Enteric Fever, Small Pox, Measles, Scarlet Fever, Whooping Cough, Diphtheria, and Diarrhœa—caused 75 deaths, giving a Zymotic rate of 0.47 per 1,000 living, as against 0.61 last year and 1.13 for the previous ten years. A table shewing the mortality from and the morbidity of these diseases for the previous five decennia appeared in the Report for 1920. A similar table dealing with the past ten years (Table IVA.), followed by tables relating to the age, sex, ward and time distribution of these diseases is appended (Tables IV. B, c and D). A continuation of the wet cold weather of 1923 during 1924 accounts for the comparatively small number of deaths from Diarrhœal conditions among children. Measles shews its periodical increase, and accounted for slightly less than the average number of deaths. Enteric Fever and Scarlet Fever caused a few deaths. Small Pox had no effect upon the mortality figures. Among the infectious diseases which are not included in the principal Zymotic Diseases, Influenza is given as the cause of death in 89 instances.

The decline in the number of deaths from Tuberculosis, which was interrupted during the war years, has not yet resumed its downward tendency. The number from Pulmonary Tuberculosis and from other forms of Tuberculosis was exactly the same as in 1923. An outbreak of Chicken Pox in the Spring lasted throughout the whole year but caused no mortality.

The group of diseases including Cerebro Spinal Fever, Encephalitis Lethargica and Poliomyelitis were fortunately not present in epidemic form. The after effects of the two latter diseases, both mental and physical, are of a very distressing and disabling nature.

TABLE IVA.

Summary of Zymotic Deaths for 1924 and the preceding ten years.

8				4	9					
Average FOR 10 YEARS 1914—1923.	115470.4	0.4	:	26.7	8.8	19.5	20.0	51.6	130.6	1.13
1914	118514	01	:	45	42	23	25	19	212	1.79
1915	111936	4	:	. 19	23	27	36	88	239	2.13
9161	109935	11	:	14	10	12	38	69	154	1.40
1917	106747		:	35	:	500	24	50	139	1.30
8161	105845	4	:	0	;	35	13	42	96	06.0
6161	117277	0	:	56	61	5	61	43	97	0.82
1920	121950	I	:	14	2	10	13	30	70	0.57
1921	006611	I	:	:	3	29	13	70	911	0.95
1922	120900	64	:	64	2	4	6	27	108	68.0
1923	121700	3	:	9	4	2.2	IO	30	7.5	19.0
1924	123100	I	:	2.1	2	4	9	25	59	0.47
YEAR	Population	No. of Deaths.	Small Pox	Measles	Scarlet Fever	Whooping Cough	Diphtheria	Diarrhoea	Totals	Zymotic Rate

TABLE IVB.—Cases of Infectious Diseases for the Year 1924 classified according to age and sex.

1	E	70	24	114	=	. 00	-	62	24	10	34	17			èo	:	10	154	1078	-	
TOTAL	M	61	16	105	1-	:	10	105	24	1-	45	Z	Z	1	21	П	13	149	11381	:	
-	E	:		:	:	:	:	-	:	-	-	:	:	:	:	:	:	:		:	
65 and over	M	:	0	:	- 1	:	:	0.3	:	1	24	:	-:	:	:	- 1	:	:	:	:	- 1
-65	1	:	10	:	1	:	:	11	:	00	11	:	:	:	-	;	:	:	-	:	
45	M	1	4	:	1	:	:	67	-	1	00	- ;	:	:	:	1	:	:	;	:	
45	54	4	00	03	4	10	:	26	œ	63	œ	:	1	:	0.1	i	:	1	00	:	
25	M	10	9	4	4	:	:	20	0.3	00	9	:	:	:	:	:	:	1	:	:	
-25	14	œ	1	9	64	00	:	19	0.1	-	7	:	:	:	1	:	:	:	1	:	
20-	M	63	63	63	-	1	:	17	0.1	63	-	1	:	1	-	:	1	:	-	:	
-20	14	10	7	1	1	:	:	16	+	:	00	:	:	:	:	:	:	;	+	-	
15-	M	+	60	œ	:	:	:	1-	00	:	4	1	:	:	:	:	:	24	9	:	
-15	14	16	-	19	03	:	:	4	00	91	-	:	:	:	:	:	:	10	19	-	
10	M	9	:	17	:	:	:	01	00	:	60	:	:	1	:	:	:	9	10	:	
-10	E	27	:	51	1	:	:	1	63	:	10	:	:	:	:	1	:	61	326	:	
10	M	20	-	44	1	:	:	00	0.1	:	00	1	1	:	1	:		64	344	;	
40	Œ.	00	:	19	:	:	:	:	-	:	7	:	:	:	:	:	:	34	287	:	
4	M	14	:	1.6	:	:	1	:	63	:	00	:	:	:	:	:	-	460	319	1	
4	E	+	:	œ	:	:	:	1	00	1	1	:	:	:	:	:	0.1	21	195	1	
60	M	23	:	6	:	:	:	П	-	:	1	:	:	:	:	:	-	14	189	;	
60	Ŧ	23	:	01	:	:	:	:	:	:	-	:	-	:		1	:	10	110	:	
61	M	01	:	10	1	:	:	1	03	:	-	:	:	:	1	:	0.1	10	124	:	
1-2	E	-	:	:	:	;	1	1	62	:	-	;	1	:	:	:	+	18	92	-	
-	M	NO.	:	1	:	:	:	:	0.3	:	00	:	:	1	1	-	21	13	105	:	
Under 1 year	E	- 1	:	:	1	:	1	:	:	:	:	:	:	:	:	:	4	70	40	:	
Un 1 y	M	1	:	:	:	1	10	1	4	:	5	:	:	:	:	:	1-	10	40	:	
Notifiable Disease.		Diphtheria	Erysipelas	Scarlet Fever	Enteric Fever	Puerperal Fever	Ophthalmia Neonatorum	Pulmonary Tuberculosis	Other Forms of Tuberculosis	Influenzal Pneumonia	Primary Pneumonia	Malaria	Dysentery	Cerebro Spinal Fever	Encephalitis Lethargica	Acute Poliomyelitis	Infective Enteritis	Chicken Pox	Measles	Small Pox	

TABLE IVc.

Cases of Infectious Diseases notified in 1924 and classified according to Ward distribution.

Notifiable Disease.	Total	St. John's.	Avenham.	Christ	Ashton.	Maudland.	St. Peter's.	Moorbrook.	Park.	Trinity.	Deepdale.	, Ribbleton.	Fishwick.
Diphtheria	131	21	3	15	5	12	13	9	13	10	7	16	7
Erysipelas	40	2	5	9	I	2	4	4	4	2	. 4	I	2
Scarlet Fever	219	21	12	27	12	19	24	14	30	16	17	19	8
Enteric Fever	18	2	5	2	2	1	.5	1					
Puerperal Fever	8	I				1	3		. 1		1		1
Ophthalmia Neonatorum	6			3			I		I			- 1	
Pulmonary Tuberculosis	184	25	11	15	10	12	16	13	27	19	18	10	8
Other Forms of Tuberculosis	48	4	4	6	2	5	3	4	6	6	4	4	
Influenzal Pneumonia	17	5		н.	2	2	2		13	3	I'	- I	a
Primary Pneumonia	78	4	8	28	4	1	12	4	5	5	2	4	I
Malaria	Nil												
Dysentery	Nil												
Cerebro Spinal Fever	1								I				
Encephalitis Lethargica	5	I	I					1				2	
Acute Poliomyelitis	I					I							
Infective Enteritis	23		3	16	2						I		I
Chicken Pox	303	17	19	26	12	18	48	24	41	31	35	24	8
Measles	2216	184	95	215	29	149	275	176	228	296	231	203	145
Small Pox	1				I								
1 200 111 111 111 111			1		1			100	la constitution	do v	1 7	19 11	-

TABLE IVD.

Cases of Infectious Diseases notified in 1924 and classified according to month of occurrence.

Notifiable Disease.	January	February	March	April	May	June	July	August	September	October	November	December	TOTAL
Diphtheria	9	6	10	15	9	5	8	2	9	2 I	9	28	131
Erysipelas	6	2			2	1	3	2	4	7	8	5	40
Scarlet Fever	16	13	15	12	13	12	25	12	22	26	28	25	219
Enteric Fever	1				2	1	7	3	I	2	1		18
Puerperal Fever	2		2			1	I	1		I	I	1	8
Ophthalmia Neonatorum	1			2					1	I	I		6
Pulmonary Tuberculosis	18	13	12	22	20	18	12	16	11	10	18	14	184
Other Forms of Tuberculosis	8	4	9	6	6	3	2	3	2		2	3	48
Influenzal Pneumonia	1	I	9	2	1		1					2	17
Primary Pneumonia	9	7	12	13	9	2	5	2	I	9	4	5	78
Malaria						***							Nil
Dysentery											bette,		Nil
Cerebro Spinal Fever							I						1
Encephalitis Lethargica			2	I			I	1					5
Acute Poliomyelitis				I									1
Infective Enteritis						2	5	I 2	2	2			23
Chicken Pox		26	53	51	49	29		3	18	17	23	34	303
Measles	4	1	4	2	44	202	246	73	119	222	567	732	2216
Small Pox		1											1

ENTERIC FEVER.

	1924.	1923.	1922.	1921.
No. of cases notified	18	16	10	13
No. of deaths	1	3	2	1
Case incidence per 1,000 population	0.14	0.13	0.083	0.108
Mortality per 1,000 population	0.008	0.02	0.016	0.008
Morbidity per cent. of cases notified.	5.5	18.75	20.00	7.69

Seventeen cases of Enteric were notified in 1923 and one more in 1924. As in the previous year, when the maximum number notified in any one month was 3, there was no real epidemic prevalence. After a single case in January, there were two cases in May, one in June, seven in July, three in August and four in the next three months. Blood tests were performed either by the medical attendant or your Medical Officer in each case and the identity of the disease with a modified type of Enteric Fever, i.e., that caused by the Bacillus Paratyphosus B, established in fifteen instances. Our cases bore no causal relation with those which constituted the Chorley epidemic in September and October. There was one instance where a patient directly infected her aunt who was acting as her nurse. In another instance the father of a case had himself suffered from Enteric in the previous year although at the time of the enquiry there was no evidence, pathological or otherwise, that he had so suffered. In one instance a history of a fondness for watercress was the beginning of a careful examination of the watercress beds in Dorsetshire courteously undertaken by the Medical Officer of Health of that County. In view of the fact that Paratyphoid Fever is endemically present in the near East and especially in Salonika, samples of currants and raisins were submitted to the Bacteriologist for examination with a negative result. One patient, a baker, continued to excrete Typhoid bacilli for some time after convalescence. He abstained from work until a series of negative results had been obtained.

In making the necessary enquiries, the Sanitary Inspectors, in addition to making a careful examination for sanitary defects, were instructed to enquire as to the ultimate source of every article of foodstuffs consumed for a period before the onset of the disease. In no case were we able to trace the disease back to an infected article of food. No gross sanitary defects were discovered and one was led to the conclusion that the disease was inported by a carrier, probably an old Army man, and transmitted through some article of food by flies. The solitary death from the disease did not occur among our cases but was that of a Preston sailor who, infected on board ship, died in a Liverpool Fever Hospital.

SCARLET FEVER.

	1924.	1923.	1922.	1921.
No. of cases notified	219	223	226	367
No. of deaths	2	4	2	3
Case incidence per 1,000 population	1.77	1.83	1.87	3.06
Mortality per 1,000 population	0.016	0.032	0.016	0.02
Morbidity per cent. of cases notified	0.9	1.8	0.88	0.82

The number of cases notified was practically the same as in 1922 and 1923. Nearly two-thirds of the cases occurred in the second half of the year, the heaviest months being July (25), October (26), November (28), and December (25). Nearly half the cases were aged 5—10. They were evenly distributed over the town and the sexes were equally affected. 85 per cent. of the cases notified were treated at the Isolation Hospital, compared with 84 per cent. in the previous year.

The type of case remains mild although severe complications are still met with. The disease seems to be kept alive by the chronic carrier and the mild unrecognised case.

DIPHTHERIA.

	1924.	1923.	1922.	1921.
No. of cases notified	131	144	153	178
No. of deaths	6	10	9 -	13
Case incidence per 1,000 population	1.14	1.183	1.26	1.49
Mortality per 1,000 population	0.05	0.08	0.074	0.108
Morbidity per cent, of cases notified	4.58	7.00	5.88	5.88

There has been a slight diminution in the number of cases of Diphtheria and the number of deaths caused thereby. This diminution has been observable during the last four years.

The cases were spread over the whole year with a noticeable excess in October and December. There were six deaths compared with 10 in 1923, and a decennial average of 20. All the deaths occurred at the Isolation Hospital, to which 175 or 88 per cent. of the total notified cases were nemoved, compared with 78 per cent. in 1923.

MEASLES.

1924 proved to be a year of epidemic prevalence, 2,216 cases causing 21 deaths having come to our notice. Isolated cases occurred in the early months of the year, 44 in May, 202 in June, 246 in July. There was a decline during August and September and a recrudescence in October, 567 cases were notified in November, 732 in December and the epidemic died down in the early part of 1925. As in our previous experience the brunt of the disease was borne by children between 4 and 10 years, nearly one-third of the children were 4 years of age, and the sexes were equally affected. The town was equally affected, the denser populated central wards, i.e., those with the largest young families, had the most cases.

Of the deaths, 3 were those of infants, 11 were aged 1—2, 6 were aged 2—5, and 1 was aged 5 years. The value of the postponement of an attack of Measles until the later ages is apparent. The bulk of the cases were promptly visited by a Health Visitor and advice as to nursing and general management given. The welfare of the patients is sought and prompted by arranging for the proper nursing, proper food, and provision of medical attendance; thus, free milk was provided in 94 instances (4.2 per cent. of all cases) for a period of 10 days, in 2 instances home treatment by a private practitioner was arranged for. Thirty-one children were removed to Hospital; these were children already suffering from Pneumonia

or under poor home conditions, or in lodgings. During that part of the epidemic which took place in 1924, 72 children, or 3.2 per cent., were nursed by special arrangement made by the Health Committee. The nurse's duties were to visit the cases selected by the Medical Officer of Health for the purpose of carrying out simple nursing, taking a record of the pulse and temperature, blanket bathing the patients, making the bed, and supervising the preparation of special diets. This course of action was varied or supplemented as desired by the Medical Practitioner in charge of the case. In all, between November 6th, 1924, and January 24th, 1925, 106 children were nursed. The total number of visits paid was 607. Eleven of the children died. Considering that the cases were selected mainly on account of the severity of the illness, the results must be considered to be encouraging to further effort on these lines.

In my opinion, these remedial measures, i.e., advice by the Health Visitors, removal of cases to the Hospital, provision of domestic nursing, the provision of milk and other necessities have materially contributed to the diminished mortality from this disease. It is of interest to note that 1,304, or 58 per cent., of the cases were notified by medical practitioners, 139 or 6 per cent. by the parents, 391 or 17 per cent. by the School Teachers, and 382 or 17 per cent. were discovered by the Health Visitors occurring either as primary or secondary cases.

One-third of the cases were properly isolated in a bedroom, the remainder were treated in the kitchen. One looks in vain for evidence of an increase of knowledge as to the dangers of this disease on the part of the public. Repeated references have been made in previous reports as to adverse factors such as unwillingness to isolate, the delay in sending for the doctor, continued reception of neighbours' children from infected houses, and a general casual outlook upon the disease until serious symptoms set in. If adequate care were taken of the children in the early stages of the disease very few deaths would occur. Attempts at prevention of the disease have hitherto been unavailing.

INFLUENZA.

The great part played by Influenza in our Vital Statistics may be illustrated by the following summary, in which deaths due to Bronchitis and Pneumonia are also included.

				N	o. of	deaths	cause	d by	
			. I	nfluenz	za. B	ronchit	is. P	neumoi	nia.
1915				33		230		237	
1916		***		37		150		173	
1917		***		-31	,	160		176	
1918				391		151		210	
1919				166		183		168	
1920				37		154		153	
1921				32		118		139	
1922				85		151		151	
1923				54		161		189	
1924				89		160		175	
				-					
	Averag	re		95.5		161.8		177.1	

Influenzal Pneumonia and Primary Pneumonia are notifiable diseases, but the number brought to the notice of the Department is disappointingly small. Thus the total deaths from Pneumonia and Influenza were 264, while the notifications amounted to 95 only. As I have previously said, it is highly probable that the failure to notify is due to the knowledge that there is no adequate Nursing Service available.

As in 1922 a Spring epidemic of moderate severity caused a considerable number of deaths in the town. In January and February together there were 12 deaths, in March there were 44, in April 20, and in May 3. The total number of deaths was 89, as compared with 81 in 1922, and 52 in 1923. There was no distinction as to sexes, and the disease seemed to be spread equally over the town. The number of deaths from Bronchitis and Pneumonia seemed not to have been affected by the presence of the disease in epidemic form, and to be very near the decennial average.

TABLE IVE.

Ward and Month Incidence of Deaths from Influenza in 1924.

WARD.	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
St. John's	2	3	6	2								I	14
Avenham			4	I									5
Christ Church	I	1	2	2	I								7
Ashton		I	6	2								1	10
Maudland		I	2										3
St. Peter's			7	3				·				1	II
Moorbrook			4	I									5
Park	I	I	2	2								I	7
Trinity		1	2	2					1				6
Deepdale		¥	I	2	I								4
Ribbleton			6	1	I								8
Fishwick			2	2								1	5
Totals	4	8	44	20	3				1			5	85

^{*}Total given by Registrar-General-89.

SMALL POX.

The endemic of mild Small Pox, more particularly in Derbyshire, has continued throughout the year. At the time of writing there are 130 cases of Small Pox in Derby, and the Medical Officer of Health reports to his Council that some of the cases are assuming the dangerous and loathsome aspect of Small Pox as it was known in previous epidemics.

Our Committee have come to a highly satisfactory arrangement with the Fylde and Garstang Joint Small Pox Hospital Board, and is now seeking the requisite power to join that body.

The one case which occurred in Preston was reported upon at the time, but the following report, reprinted from the British Medical Journal of October 4, 1924, gives a fuller account of a situation which was not without its dangers.

SMALL POX: AN UNRECOGNISED OUTBREAK.

BY

F. A. Sharpe, M.D., B.S.Lond., D.P.H.Leeds, Medical Officer of Health, Preston.

The following history illustrates the behaviour of unrecognised small pox in a community where the only control was the previous partial vaccination of the contacts, and the fact that it occurred in institutions under discipline and observation. The facts are related as they came to my knowledge in order better to convey the method by which the outbreak was discovered.

On Saturday, February 16th, I was asked by the medical attendant to see a girl, resident in an institution for female adolescents which is supported partly by voluntary contributions and partly by laundry work. I gave it as my opinion that the patient was suffering from chicken-pox, and very much relieved the administration by offering to remove the case to the Preston Isolation Hospital. This offer was accepted, and the patient was removed to an isolation ward in the diphtheria block at the isolation hospital.

During the week-end I became suspicious of my original diagnosis, and asked Dr. Fisher, of the Lancashire County Council staff, to see the case. He diagnosed the case as one of small pox, the points being:

- The rash was preceded by a definite illness on February 8th—headache, pains in the back, and sickness.
 - 2. The rash first appeared on the face and forehead on February 13th.
- 3. When the rash was fully developed (February 18th) it tended to affect the extremities rather than the centre of the body, and the exposed rather than protected surfaces. Thus the back of the hand and the arm, the front of the leg, and the forehead were affected, whereas the abdomen, the groin, and the front of the neck were free.

- 4. The rash appeared in one crop upon the face and appeared successively at different sites lower down the body, affecting the feet last; thus the rash on the face was much older than that upon the feet, and all the spots upon the feet were of the same age.
 - 5. The spots were circular and deeply seated in the skin.
 - 6. The vaccinal condition was definitely negative.
 - 7. Re-vaccination was not successful.

The diagnosis was agreed to by my assistant and the original medical attendant of the case and by the medical officer of the small pox hospital to which the patient was removed on that day. She made a good recovery, but was somewhat scarred. There were no subsequent cases.

The usual inquiries as to the source of infection revealed the fact that the laundry was regularly receiving parcels of laundry work from an adjoining institution for boys. This home is managed by a religious brotherhood and receives fifty resident boys on behalf of the Home Office. At this home on December 25th there occurred an illness in one of the boys. A rash appeared on December 29th. I saw the case on December 31st in consultation with the medical officer, and diagnosed the illness as chicken-pox. Bearing this case in mind, I at once inquired as to the subsequent history, and found that fourteen additional cases had occurred, as shown in the table.

TABLE IVF.

Case No.	Date of Onset.	Vaccinal Condition.	Case No.	Date of Onset.	Vaccinal Condition
1	Dec. 25th	Nil.	9	Jan, 12th	4 scars
2	Jan, 8th	4 scars	10	,, ,,	4 scars
3	,, ,,	4 scars	II	Jan. 13th	Nil.
4	Jan. 11th	Nil.	12	,, ,,	Nil.
5	,, ,,	1 scar	13	Jan. 14th	Nil.
	,, ,,	Nil.	14	Jan. 18th	Nil.
7 8	,,, ,,	ı scar	15	,, ,,	Nil.
8	Jan. 12th	3 scars			

These lads all suffered from an illness similar to that of the first boy. There was, I am assured, a prodromal illness, nausea, and backache, and in one or two instances sickness. The rash appeared first on the face. As the cases occurred they were removed to an empty dormitory and looked after by the resident nurse.

At the date of my visit (February 19th) all the boys were well and mixing freely with the other lads. They presented scars on the shins, knees, and feet, and the boys affected later in the outbreak showed characteristic "seeds." in the soles of the feet. Individual scars were also indicative.

An examination of the remaining boys showed that with one exception all had been vaccinated either in infancy or subsequently. Also that on February 1st and February 15th the medical officer of the institution had arranged for the vaccination of the eight among the above who had not been previously vaccinated. In seven of the eight the attempt to vaccinate was unsuccessful both on February 1st and February 15th. In one case, which in its attack had only a single spot and no scars, vaccination was successful. The seven of the fifteen cases in the table were unsuccessfully re-vaccinated on February 20th.

In view of the fact that the usual experience of public vaccination, using Government lymph, is 99 per cent. case success and a slightly lower figure for insertion success, the unsuccessful attempt to vaccinate these unvaccinated boys was the subject of correspondence between the public vaccinator and the Government lymph establishment, to which my attention was called by the Ministry of Health early in March.

Summarising, I found that an epidemic illness resembling small pox had occurred, and that it had (1) infected all but one of those eight boys not protected by previous vaccination; (2) infected seven boys protected by previous vaccination; (3) failed to infect forty-nine boys and staff protected by previous vaccination; (4) rendered those infected immune to vaccination.

On January 28th the nurse who had attended to the sick boys took her uniform to the laundry at the girls' institution. The case in the latter home occurred on February 8th—eleven days later.

Several interesting points arise. The attack rate was as follows :-

TABLE IVG.

Institution.	Period of Exposure.	Previously Vaccinated.	No. of Cases.	Percentage.	Unvaccinated.	No. of Cases.	Percentage.
Boys' Home Girls' Home	Unlimited 8 days	56 14	7	12.5	9 6	8	88.8 16.5
Isolation Hospital	21 days	48		1	9		

The total contacts at the three institutions numbered 126, of whom 111 had been previously vaccinated, and 15 were unvaccinated. All, with 10 exceptions (recent Army vaccinations 8, refusals 2) were submitted to vaccination in connection with the small pox outbreak.

The case success in those previously vaccinated was 102:22, or 21.5 per cent.

In the 14 who had never been vaccinated it succeeded in all but one case.

An examination of the dates of attack in the boys' home shows that Case I infected the remaining cases, and that the removal of the subsequent cases to a separate dormitory without any special precautions was sufficient to check any further spread of the disease. Although the unprotected were with one exception attacked, yet they were not, as one might expect, attacked first. Cases 7, 8, 9, and 10, who were previously vaccinated, became infected before Cases 11, 12, 13, 14, and 15, who were not. All the cases were of the mild type, and there was no practical difference in severity between the cases arising among the protected and the unprotected. In the girls' home secondary cases were looked for with some assurance. Their immunity was perhaps due to the fact that each girl had a separate bedroom. The boys' home is planned on the dormitory system.

TABLE IVH.

Vaccination.

						1922.	1923.
No. of Births			711	111		2,509	 2,474
Vaccinated succ	cessfully			***		1,434	 1,476
Unsusceptible				200		5	 4
Conscientious o	bjectors'	refus	als			638	 553
Deaths						172	 185
Postponements-	Remov	als to	other	district	s	143	 49
Remaining						117	 207

TUBERCULOSIS, 1924.

By Dr. James Walker.

(1) INCIDENCE OF THE DISEASE.

In the year under review the total number of cases of Tuberculosis (all forms) notified in Preston was 232. This figure shows a slight increase over that of the previous year, when the number was 208.

The following table shows the number of notifications in Preston during the last eight years, and it will be observed that the increase in 1924 is due mainly to the pulmonary form of the disease.

TABLE IVI.

	Notifi	cations.—Pre	ston.
Year	Pulmonary	Non- Pulmonary	Total
1917	338	49	387
1918	238	2 2	260
1919	281	25	306
1920	246	60	306
1921	166	52	218
1922	191	46	237
1923	163	45	208
1924	184	48	232

The following chart shows for purpose of comparison the notification rates of Tuberculosis in Preston and in England and Wales during the last ten years. This chart illustrates the progressive fall in the incidence of the disease throughout the country, and bears witness to the effect that anti-Tuberculosis schemes are slowly but surely producing.

This decline is also reflected in the general death-rate from Tuberculosis, which shows a corresponding decrease.

The following three tables deal with the age and sex distribution of the notified cases (primary notifications on Form A), the relative incidence in the different wards of the Borough, and the occupations in age and sex groups.

It will be noted from the Ward table that the highest incidence of the disease is in those parts of the town where the home conditions are the worst and where overcrowding is more rife. This illustrates the fact that bad housing and environment play an important part in the production of this disease.

TABLE IVJ.

Summary of Notifications during the Year 1924.

toro seise sul tilgile s				1	Notifi	cation	ns on	For	m A			
Age periods	0.1.	1-5	5-10	10-15	15-20	20-25	25-35	85-45	45-55	55-65	65-	Total
Pulmonary Males ,, Females Non-Pulmonary Males	4	2 I 7	3 1 2	2 4 3	7 16 3	17 19 2	30 20 2	20 6	15 10	7 1	2 I	105 79 24
" Females		5	2	3	4	2	6	2				24

TABLE IVK.

Ward Incidence of Tuberculosis.

WARI		Number	of Notifie	d Cases.	Incidence Rate per 1000
120		Males	Females	Total	of the population
Avenham		 9	6	15	2.03
Trinity		 12	13	25	2.49
Deepdale		 11	11	22	1.88
Fishwick		 7	I	8	1.03
St. Peter's	***	 12	7	19	1.59
Ashton		 8	4	12	1.29
St. John's		 16	13	29	2.40
Moor Brook		 9	8	17	1.87
Park		 17	16	33	2.19
Maudland		 8	9	17	1.69
Christ Church	1	 15	6	21	2.38
Ribbleton		 6	8	14	1.42
Wind to the	TOTALS	 130	102	232	1 88

CHART 2. CHART 1. DEATH RATES FROM TUBERCULOSIS (ALL FORMS) NOTIFICATION RATES OF TUBERCULOSIS (ALL FORMS) FOR ENGLAND AND WALES AND FOR PRESTON 1915-1924. FOR ENGLAND AND WALES AND FOR PRESTON 1915-1924. RATE 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1,000 RATE PER IOOO 1922 1923 1924 1917 1918 1919 1920 1921 1915 1916 PRESTON RATE SHOWN THUS PRESTON RATE SHOWN THUS RATE FOR ENGLAND AND WALES SHOWN THUS RATE FOR ENGLAND AND WALES SHOWN THUS -

CHARTHI NOTIFICATION RATES OF TUBERCULOSIS [AT FORMS] FOR ENGLAND AND WALES AND FOR PRESTON 1918-1924. 1916 isei osei eiei siei | 1917 1924 1915 1923 SSEL 0001 005 PRESTON RATE SHOWN THUS RATE FOR BUCLAND AND WALLES SHOWN THUE STAR

 ${\rm TABLE\ IV_L}.$ Occupation in age and sex groups of notified cases of Tuberculosis in 1924.

Occupation		0-1	1-5	9-10	10-15	15-20	20-25	25-80	80-85	85-40	40-45	45-50	50-55	55-60	60-65	65~	Totals
Under	M	4	9														13
School Age	F		6														6
School Children	M F	111		5 3	4 7												9
Domestic Duties	F	7-111				1.	2	4	6	2	ı	6	4		507	I	27
Cotton Mill	M				I	3	4	I	2	I		3	2				17
Operatives	F					14	II	9	5	I	3				I		44
	1			-		1		7,4		A CONTRACTOR	-			THE REAL PROPERTY.	Total Inc.	7000	
Labourers	M					I	2	2	4	2	2	I	3	2	2		2 I
Clerks	M					1		2		2							5
Tayo Danie	F					I						•••					I
Shop Assistants	M F						2 2	2									4 2
Engineers																	
and Mechanics	M						2	2	2						1		7
Iron Workers	M					2	1	1									4
Rubber Workers	М							I	1			ı					3
Electrical	M					1											1
Workers	F					I	1										2
Wood Workers	M								I								I
	M					2	8	7	3	5	4	3	3				35
Occupations	F					2	4		I		**						7
No Occu- pation	M F						I	1		2	2 I			I	I	2	9
177777	M	4	9		-	10	19	19	13	12	8	8	8	3	4	2	
Totals	F		6	5 3	5 7	20	21	13	13	3	5	6	4		1	1	232

mounting increased expandence for Tilberhulosis schemes hitz been 15 side extent and prevented Local Authornius serious schemes hitz been 15 side extent serious serious de Carporation las been able to consequently the Carporation last been able to consequently the conse

to commer means for the extension and improvement of its scheme, and a start

(2) DEATHS.

During 1924 the number of deaths registered in Preston as due to Tuberculosis (all forms) was 139. This figure is exactly the same as in the previous year, but, owing to population increase, yields a slightly lower rate of mortality.

Of the total deaths from Tuberculosis 105 were due to the pulmonary form and 34 were caused by other forms of the disease, including Tuberculous Memingitis. Thus out of the total deaths in the Borough one in every twelve was due to Tuberculosis in some form or other, while the death-rate from this disease was 1.13 per 1,000. The pulmonary form of the disease was responsible for a death-rate of .85 per 1,000, while other forms of the disease caused a rate of .28 per 1,000.

The age and sex distribution of these deaths is shown in the following table, and Chart 2 compares the Tuberculosis death-rate of Preston with those of England and Wales for the past 10 years.

 7. 4	DAT	100	T. 3	7
14	15.1		1.1	M.
	100	100		1000

Cause of Death.	Sex	All Ages	0—1	1—2	2—5	5-15	15-25	25-45	45-65	65-75	75 and over
Pulmonary Tuberculosis	{ M F	64		1	I	7	15 7	23 17	23 8	ī 2	A A A A A A A A A A A A A A A A A A A
Other Tubercul- ous Diseases	{ M F	18	6 3	3	4 1	2 2	1 4	1	3		action of the second

(3) PROGRESS OF THE CORPORATION'S SCHEME.

During the year 1924 the Corporation's scheme for dealing with Tuberculosis has been carried on along the usual lines, and there have been no outstanding developments to record.

The restrictions which for some time had prevented Local Authorities incurring increased expenditure for Tuberculosis schemes has been to some extent removed by the Ministry of Health. Consequently the Corporation has been able to consider means for the extension and improvement of its scheme, and a start has been made in this direction.

The necessity for increased facilities for the treatment of non-pulmonary Tuberculosis has long been recognised, and during the year a scheme was submitted and approved. This provides for increasing the number of beds at the Preston Royal Infirmary for the more acute cases and also for additional accommodation for the more chronic cases at other institutions. This extension of the scheme will come into force in 1925.

The other addition to the scheme concerns the Chestnuts Sanatorium, where the long-felt want for increased and better accommodation seems about to be realised. During the year the Council considered and approved a scheme providing for the erection of a new pavilion on the existing site. This building will accommodate 30 patients, and will enable the type of cases treated there to be dealt with in a more satisfactory manner. The scheme has now been approved by the Ministry of Health, and it is anticipated that the work of building will be commenced in the very near future.

During the year under review the Chestnuts has continued to do very useful work in spite of the inherent defects of the present building.

Miss E. Doherty relinquished her appointment as Matron of this institution in August, 1924, and Miss F. Keene was appointed Matron in October.

There have been no administrative changes in the Dispensary organisation during the year. The number of beds available to the Corporation at the various institutions for the treatment of Tuberculosis has remained the same and the only alteration in the distribution of beds has been that those at Stanhope Sanatorium have been given up and an equal number obtained at the Meathop Sanatorium, Grange-over-Sands, to replace them. The reason for this change was to decrease the distance patients have to travel.

The average number of beds available to the Corporation at the end of 1924 was 54. These beds were distributed as follows:—

Crossley Sanatorium	, Cheshire	1.7.	7 adults		Pulmonary cases
Bowdon ,,	.,,		5 " 3 children		"
Meathop "	Grange		6 "		,,
Eastby "	Yorkshire		4 children		
Freshfield "	Southport		6 children		in another part of
"The Chestnuts,"	Preston		13 adults, 4 children	1	millino seso W (d)
Heswall Institution	Cheshire		4 children		Non-Pulmonary cases
Royal Infirmary	Preston	.emin	2 acute surgical case	es	patient, and e.p.

(4) WORK DONE DURING THE YEAR.

The following is a summary of the work carried out during the year under the Dispensary Organisation:—

(a) AT THE DISPENSARY.

During the year 422 new patients were examined by the Tuberculosis Officer, either at the Dispensary or at their own homes.

Old patients made 3,730 attendances at the Dispensary for treatment, reports, or observation purposes.

Of the new patients, 168 were diagnosed as suffering definitely from Tuberculosis in some form or other—136 from pulmonary and 32 from non-pulmonary Tuberculosis.

The pulmonary cases were classified according to the stage of the disease as follows:—

Stage 1		***	 			95
Stage 2			 			40
Stage 3	***		 	10		1

In the 32 non-pulmonary cases the disease affected the different tissues of the body as follows:—

Lymphati	ic Glands	s					16
Spine							6
Abdomen	(periton	eum, n	nesente	ric gla	nds)		. 3
Other Or	gans (sk	in, bor	nes, int	ernal o	rgans,	etc.)	7

Details of the work done in the Bacteriological Laboratory will be found in another part of the report.

(b) Work of the Tuberculosis Nurses.

The nurses (two in number) have made 208 visits to the homes of new patients and 2,913 re-visits to those of old patients.

The following table, compiled from the Nurses' House Reports deals with the number of persons in infected houses. The figures above the heavy line shew the number of families where there were more than two persons per room—they number 12 families, consisting of 107 persons.

Total.		Occupants.	6	14	165	360	460	80	20	:	1108
Ţ		Houses	8	4	38	92	83	14	4	222	:
52.9	12		1:	:	:	:	4	1	:	5	09
	11		:	:	:	:	1	:	:	1	11
	10		:		:	1	1	:	:	2	20
	6		:	:	1	:	4	1	:	9	54
ons.	œ	iles.	:	:	-	1	4	i	1	7	56
Pers	7	Fam	:	:	2	7	7	1	:	17	119
er of	9	er of	:	:	5	16	11	4	:	36	216
Number of Persons.	55	Number of Families.	:	:	00	18	19	60	2	50	-250
2	4	Z	1	52	0	14	18	2	:	42	168 -250
estate a	8		1	2	12	14	13	П	:	43	129
	2		1	:	4	4	1	1	1	12	24
	-	A BON	:	:	:	-	1	:	:	-	-
	in es.		:	:	:	:	:	:	:	:	-
	No. of Rooms in Infected Houses.	A de	1 Коот	2 Rooms	3 Rooms	4 Rooms	5 Rooms	6 Rooms	7 and over	Families	Persons

ABLE IVN

(c) RESIDENTIAL TREATMENT.

The following table shews the number of patients who received institutional treatment during the year, the institutions to which they were admitted, and the average duration of stay in each institution.

TABLE IVo.

Institution.		Males	Females	Total	dura of s	tion
18 4 4 4		N	F	HO	weeks	days
Crossley Sanatorium		14	14	28	12	4
Meathop ,,		14		14	15	2
Stanhope "		4		4	II	6
Bowdon "			32	32	9 1	4
Eastby ,,		I 2		I 2	14	4
Freshfield "		3	10	13	18	I
"The Chestnuts",	117	18	31	49	17	4
Heswall Institution		5	3 16	8	20	
Preston Royal Infirmary Shropshire Orthopædic	**	8	16	€ 24	4	6
Hospital		2		2	28	1
Totals		80	106	186	13	4

There were thus 186 cases that received residential treatment during the year—of these 63 were children under the age of 14 years.

WORK DONE IN BACTERIOLOGICAL LABORATORY DURING 1924.

The following is the number of specimens examined during the year :-

Specimens of sputum examined for Tul	percle B	acilli		561
Throat Swabs examined for Diphtheria	Bacilli			805
Other miscellaneous specimens			···	14
				1,380

VENEREAL DISEASES.

Dr. W. H. Pimblett, the Medical Officer in charge of the arrangements, reports as follows:—

			1924.	1923.	1	Difference.
Total Ne	w Case	s	. 456	 384		+72
Total Att	endance	es at Clinic	. 5423	 5373		+ 50
,,	,,	Males	. 3646	 3463		+ 183
,,	,,	Females	. 1777	 1910		-133

These figures apply to the Clinics before the opening of the new extension for the local treatment of Gonorrhœa in both sexes, and the attendances here will show a large increase in the future and a considerable decrease in the average cost per case treated.

During the year the extensions and alterations sanctioned by the Ministry of Health were completed and a full and up-to-date equipment provided giving facilities for diagnosis and treatment equal to any in the country.

The Clinics and the work performed there have been periodically inspected by Dr. Candler from the Ministry and he was thoroughly satisfied with everything he saw.

The new departments were opened on January 14th, 1925, and the attendances at once showed a large increase.

The Medical Officer of the Maternity and Child Welfare Centres of the Corporation has also joined the Female Clinic with special reference to the local treatment of Gonorrhœa, with very satisfactory results.

The great decline in the number of new cases of Syphilis all over the Country testifies to the soundness of the principle of stopping the spread of Venereal Disease by rendering the greatest possible number of infected persons non-infective by treatment.

The effects which can be obtained by good and efficient treatment with a high standard of cure in the case of Gonorrhœa are not so clearly apparent to the general public, so that considerable work is necessary before we can say, as I think we can in Syphilis, that we have the problem well within our grasp.

denotes the design temperature of the property of the property of the second section of the

TABLE IVP.

RETURN relating to all persons who were treated at the Treatment Centre at Preston Royal Infirmary during the Year ended 31st December, 1924.

	Sy	Syphilis	Soft C	Soft Chancre	Gonorrhœa	rhoea	Other	other than Venereal	TO	TOTAL
	Males	Females	Males	Females	Mades	Females	Males	Females	Males	Femisies
variable of persons who, on the 1st January, 1924, were under treatment or observation for :-	202	711	:	:	117	14	:		319	131
Clinic for the first time and found to be suffering										
Syphilis only	-	0								0
Soft Chancre only	66	20	: :	: :	: ;	: :	:	:	66	20
Synhilis and Soft Changes	:	:	:	:	611	14	:	:	611	14
Syphilis and Conorrhera	:	:	:	:	:	:	:	:	:	: 0
Gonorrhea and Soft Chancre	6	4		:	6	4	:	-	18	×
Syphilis, Soft Chancre and Gonorrhœa		: :	: :	: :	: :	: :	: :	:::	: :	: :
Conditions other than venereal	:	:	:	:	:	:	81	59	81	59
Total-Item 2	108	62	:	:	128	81	81	59	317	139
Total-Items 1 and 2	310	179		:	245	32	81	59	989	270
Number of persons who ceased to attend the out-						1		-	200	
(a) before completing the first course of treatment										
(b) offer one or more deal	6	:		:	:	:	:		::	:
of treatment for	5.5	11								
(c) after completion of treatment, but before final	20	**	:	:	:	:			:	:
Number of persons transferred to other Treatment		:	:	:		:			:	:
Number of nercone discharged from the	12	I	:	:	64	:	:	:		:
Clinic after completion of treatment and observation fo	69	19	:	:	138	4	× ×	09	288	ó
Number of persons who, on the 1st January, 1925,					,	-	5	23	200	20
were under theatment of observation for :-	108	148	:	:	105	28	:		273	176
Total-Items 3, 4, 5 and 6	310	179		:	245	32	18	59	636	270
Out-patient attendances:— (a) For individual attention by the Medical Officer (b) For intermediate treatment, e.g., irrigation,	2062	1332	:	:	1343	284	241	191	3646	7771
	:.	:	:	:	:	:	:	:	:	:
				Total A	Total Attendances	ces	5,423.			
Aggregate number of "In-patient days" of treatment given to persons who were suffering from :	:	:	:	:	:	:	:	:	:	1
				For detection of	ction of				For	1
Examination of Pathological material :	-	Spirochetes	tes	Gonococci	cocci	Org	Other		Wassermann Reaction	uuu
(a) Specimens which were examined at, and by the Médical Officer of, the Treatment Centre	9 :	5		16	991	Z	Nil.		Nii.	
(b) Specimens from persons attending at the Treatment Centre which were sent for examination	1.0					1		-		-
to all approved laboratory		****					****		000	

TABLE IVQ.

Statement showing the services rendered at the Treatment Centre at the Preston Royal Infirmary during the Year, classified according to the areas in which the patients resided.

	Preston	County of Lancs.	Manches- ter	West- morland	Black- burn	Chester	Black- pool	Leeds	Liverpool	Total
. Number of persons from each area dealt with during the year at or in connection with the out-patient										
Clinic for the first time and found to be suffering from:										
Syphilis	IIQ	44		1	4		***		2	170
Soft Chancre									***	**
Gonorrhœa	104	36	***		2		I		2	145
Conditions other than venereal	105	33			2	***	I	***		141
Total	328	113		1	8		2		4	456
. Total number of attendances at the out-patient Clinic of all patients residing in each area	3654	1658	6	13	44	6	12	18	12	5423
Aggregate number of "In-patient days" of all patients residing in each area				2						
Number of doses of Salvarsan substitutes given in the Out-patient Clinic										
Novarsenobillon	239	108			1	I	***	***	***	34° 78
	537	221		8	19	I		***	2	17
	80 888	90	***	11	25	2	***	***	2	138
Hg.	1134	456	5	11	45	4	8	13	3	. 168
Other Medicines	1134	309	3		9	1		-3	3	
to patients residing in each area	1					***		4.4		

E. Give the names of arsenobenzol compounds used in the treatment of syphilis and the usual initial and final

F. State the amount and kind of treatment usually administered to a case of Syphilis of each of the types usually dealt with at the Treatment Centre

G. State the nature of tests applied in deciding as to discharge of patients referred to in Item 5 on previous page

N.A.B. Initial .45, Final .75.

(1) Primary infection with negative Wasserman. Two courses of 4.2 grammes N.A.B. and 8 grains Mercury, Pot. lod. for 14 days, Hyd.-c-cret T.D.S. for 3 months.

(2) Primary infection with positive Wasserman and secondary cases. 3 Courses in the 12 months, with 90 days intermission between each course and Pot. lod. and Hyd.-c-cret as above.

In latter part of the year the scheme of treatment outlined in St. Thomas' Hospital Gazette has been followed.

(1) Primary infection with negative Wasserman. Two years observation from commencement of treatment. Wasserman every 3 and later 6 months.

from commencement of treatment. Wasserman and secondary cases.
6 months.
(2) Primary infection with positive Wasserman and secondary cases.
Two years' freedom from all signs of the disease after suspension of all treatment. A Wasserman being taken every three months.
N.A.B. Provocative and Wasserman used as required.

N.A.B. Provocative and Wasserman used as required.

Gonorrhoa in Males. Resume usual habits, foods and exercise. Full sized Bougies. AgNO₃grvto ½ instillated. No urethral discharge. Palpation over metal Bougies. Microscopical examination of films made from threads and centrifugalized deposits. Palpation and massage of prostate and seminal vesicles and films made from any secretion.

Gonorrhoa in Females. Resume usual habits, foods and exercise. AgNO₃ 15% to cervical canal. Palpation urethra. Discharge, if any, examined as described above. Ferguson's speculum. Discharge from vagina and cervix examined.

V.—Maternity and Child Welfare.

The number of children born (2,328) and the Birth Rate which was 18.91 per 1,000 living continued the decline which has been apparent since 1920. Of the 2,328 births, 1,185 were males and 1,143 females; 2,216 were legitimate and 112 illegitimate. The percentage of illegitimate births was 4.8. This proportion has gradually declined since 1918 and has now reached the pre-war figure.

The number of infant deaths was 225; of these 145 were males and 80 females. Legitimate children numbered 202, illegitimate children 23. The death rate per 1,000 born was 97, one point lower than the rate last year.

The Birth Rate and Infant Mortality Rate are given in detail in Tables IA, IB, and IE, and a detailed statement of the causes of and age periods at death in Table VA.

A comparison with the Lancashire and Cheshire Great Towns, Table IE, relating to the figures for the 53 weeks ended January 3rd, 1925, shows that while Preston's figures have improved, the rest of the County on the whole shows figures not so good as in the previous year. Thus in 1923 there were 3 towns with a rate of 100 or over, Preston's rate being 98 for this period. In 1924 there were 6 towns with a rate of 100 and over, Preston's rate being 90.

The two sexes are not affected equally in either their birth rate or their mortality in 1923. The Infantile Mortality rate for males and females is 107 and 88 respectively, in 1924 the rates were 122 and 70. For every 4 females who failed to reach 1 year of age, 7 male infants died.

Year	Legitimate Births	Deaths of Legitimate Children	Rate per 1000 born	Illegitimate Births	Per cent of total	Illegitimate Deaths	Rate per 1000 born
1913	2722		*	142	5.2	0.00	0
1914	2671		***	147	5.5		
1915	2387			132	5.5		
1916	2150			143	66		
1917	1831			167	90		1
1918	1754	***	***	181	10.3		
1919	1984			174	8.0	***	1
1920	2810	280	99	174	5.8	21	120
1921	2534	278	109	177	6.3	38	215
1922	2350	225	95	132	5.6	17	129
1923	2316	220	95	110	4.5	18	164
1924	2216	202	91	112	4.8	23	205

TABLE VA.

Infantile Mortality, 1924.

Nett Deaths from stated Causes at various Ages under One Year of age.

CAUSE OF DEATH.	Under 1 Week.	1-2 Weeks.	2-3 Weeks.	3 - 4 Weeks.	Total under 1 Month.	1 - 3 Months.	3 - 6 Months.	6 - 9 Months.	9 - 12 Months.	De un O	otal aths ider ne ear.
All Causes:— Certified Uncertified	58 5	18	11	6	93	3 ²	30	32	28 I	21	5
Small Pox Chicken Pox Measles Scarlet Fever Whooping Cough Diphtheria and Croup Erysipelas Tuberculous Meningitis Abdominal Tuberculosis Other Tuberculous Diseases Meningitis (not Tuberculous) Convulsions Laryngitis Bronchitis Pneumonia (all forms) Diarrhœa Enteritis Gastritis Syphilis Rickets Suffocation, overlying Injury at Birth Atelectasis Congenital Malformations Premature Birth Atrophy, Debility and Marasmus	 	3						1 1 2 6 II 6 II	2 2 3 IO 3 I	M	F 2 1 7 8 6 9 5 6 26
Other causes	63	18	11	6	5	34	32	32	4 29	13 12	80

PUERPERAL FEVER.

Eight cases of Puerperal Fever were notified during the year which is the same number as in 1923. Of these eight cases five died. On investigation of the five deaths, however, it would appear that it is doubtful if two of them should have been credited to Puerperal Fever as in one case the patient actually went back to work for a considerable time after her confinement. In the other case the patient appeared to have been extremely ill during practically the whole of her pregnancy and it is doubtful if she actually died from Puerperal Septicaemia. Two of the deaths occurred in the Preston Royal Infirmary and one occurred in the Isolation Hospital two days after removal there.

TABLE VB.

Summary of Cases of Puerperal Fever.

Servi	YEAR	No. of Cases Notified	No. of Deaths	No. of Births Registered	Incidence Rate per 1000 Births	Mortality per 1000 Births
	1911	6	2	2726	2.20	0.73
	1912	2	I	2753	0.72	0.36
	1913	7	2	2888	2.42	0.69
	1914	7	2	2841	2.46	0.70
	1915	9	5	2546	3.53	1.96
	1916	3	3	2315	1.29	1.29
	1917	I	I	2019	0.49	0.49
	1918	3	2	1906	1.57	1.05
	1919	9	I	2086	4.31	0.48
	1920	16	9	2984	4.69	3.01
	Average	6.2	2.6	2506.4	2.47	1.03
-	1921	8	7	2811	2.82	2.49
	1922	8	3	2482	3.55	1'20
	1923	8 8	3	2426	3.30	1.24
	1924	8	5	2328	3.40	2.15

DEATHS FROM ACCIDENTS AND DISEASES OF PREGNANCY AND PARTURITION OTHER THAN PUERPERAL FEVER.

There were eight deaths from Accidents and Diseases of Pregnancy in the Borough. Of these eight deaths two occurred from Eclampsia in spite of medical attention during the pregnancy. One was a sudden death from Pulmonary Embolism which was unavoidable, three died from Hæmorrhage and although two were assigned to other causes, on investigation it would appear that these two died from Puerperal Septicaemia. Of the deaths, three occurred in the Preston Royal Infirmary and one in the Isolation Hospital.

d data new als estimate	Births	Infant Deaths		peral ver	Deaths from other diseases
the salesqueeza of the			Cases	Deaths	of Pregnancy and Parturition
Private Houses	1994	202	7	2	4
Nursing Homes	50	I			I
Royal Infirmary	283	14	I	2	2
Isolation Hospital		2		I	I
Other Institutions	I	6			***
	2328	225	8	5	8

TABLE Vc.

Attendance on Women at Child Birth.

THE BIRTHS WERE ATTENDED BY:—	District	District 1a	District 2	District 3	District 4	District 5	Total
Midwives alone	232	38	335	252	206	221	1284
Doctors and Midwives	194	18	113	100	117	102	644
Doctors and Monthly Nurses	6	6		6		11	29
Doctors and Unqualified Women	24	6	32	32	23	14	131
Totals	456	68	480	390	346	348	2088

TABLE VD.

Notification of Births Act.

Received from:—

District	Midwives	Doctors	Parents	Royal Infirmary	Private Nursing Homes	Total
ı*	340	2	57	83	2	484
1A* 2*	38		7	10	7	62
2*	379	2	47	83	23	534
3	379 358	I	53	37	8	457
4	311	-	35	45	P 20-11 10	391
5	260	I	33	40	3	337
	1686	6	232	298	43	2265

^{*}Districts 1 and 2 divided to form District 1A in October, 1924.

STILL BIRTHS.

The number of bodies of still-born children interred at the Preston Cemetery during 1924 was 141, but five of these belonged to districts outside the Borough.

It has been possible to investigate the probable cause of 66 of these stillbirths. Adopting the same arbitrarily chosen divisions as formerly these were as follows:—

Prematurity Accidents of Labour	 		 23 24
Illness of Mother	 	1	 5
Abnormality of Child	 		 4
Macerated Foetus	 		 10
			-
			66

Without prolonged laboratory work and without connection with a Hospital it is not, in my opinion, possible to get any further with the investigation of still-births, especially in connection with those under the headings of Prematurity and Macerated Foetus.

ANTE-NATAL WORK.

At the Ante-Natal Clinic, 2 North Road, 238 new patients, who made 386 attendances, were seen. Reviewing the work of the year in this department one is driven to the conclusion that the Clinic cannot fulfil its real function without very close and definite co-operation with a Hospital with a Maternity Department. At the time of going to press the Maternity and Child Welfare Medical Officer has assisted at the Venereal Disease Clinic for women at the Preston Royal Infirmary and as far as can be seen the arrangement is highly satisfactory and it is possible that a similar arrangement might be as satisfactory if carried out in the Maternity Department. It seems a pity that two Ante-Natal Clinics entirely unconnected with each other should be run in a town the size of Preston. I should like here to acknowledge the ready courtesy of those responsible for the Maternity Department of the Royal Infirmary in admitting cases sent from the Ante-Natal Clinic.

Inspection of Midwives.

At the end of the year 1924 there were 42 names on the Register of Midwives, 29 of whom were trained and 13 untrained. 125 routine inspections were made and 19 special inspections, while 11 midwives were inspected during their conduct of a case. No midwife was reported to the Central Midwives' Board for infringement of the rules. There has been formed in Preston a Midwives' Association which is affiliated to the Midwives' Institute. Lectures on suitable subjects have been arranged. The midwives appreciate these lectures highly, as they give them not only the opportunity of revising their knowledge of midwifery but also a chance for learning any new methods that from time to time may be evolved.

INFANT WELFARE CENTRES.

The attendances at the Centres have increased during the year. The actual numbers will be seen in the table below. The courses given in Cookery, Sewing and Dressmaking continue to prove attractive and very useful.

The growth of the work is indicated by the following statement of attendances at the Centres since opening:—

TABLE VE.

Situation of Centre	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924
Deepdale Mill Street	144	1139	1471	1836	1741	2722	3318	3509	4024	4137
Walker Street		1573	3051	2536	2398	2850	2824	4150	5233	5728
Fylde Road	502	984	1771	2402	1543	2648	2732	2338	2889	3322
Savoy Street			72	1280	997	754	1639	1896	2362	3345
Manchester Road		260	1435	1774	1811	1991	2507	2488	2990	4500
North Road				100000	83	203	180	384	397	386
Totals	647	3956	7750	9828	8573	11177	13200	14765	17895	21427

The details of the attendances are as follows:-

TABLE VF.

Number of Attendances at Maternity and Child Welfare Centres and at the Ante-Natal Clinic.

Situation of Centre	Total Infants (a)	New Infants included in (a) (b)	Older Children	Expectant Mothers	Total Attendances
Deepdale Mill Street .	3005	287	921	211	4137
Walker Street	4077	295	1319	332	5728
Fylde Road	2369	255	789	164	3322
Savoy Street	2697	193	518	130	3345
Manchester Road Ante-Natal Clinic,	3433	222	900	176	4509
North Road		pay military	art liev	386	386
Totals	15581	1252	4447	1399	21427

453 Persons received Free Food in the form of Cows Milk or Dried Milk from the Corporation. The average length of time that this relief was given equalled 146 days. The total amount involved was £1,509 10s. 8d. and the average cost per head equalled £3 6s. 8d. The investigation of the income of applicants and the administration of the scheme together with that relating to the provisions of Home Helps, Midwives and Doctors absorbs a tremendous amount of work on the part of the Staff and the responsible Sub-Committee. At each monthly meeting over 200 individual cases have to be considered with full reports on each. Cooperation with the Board of Guardians, the Pensions Committee, the Employment

Exchange, the Friendly Societies and charitable agencies is maintained by diligent enquiries and collation of information. The work is rapidly growing and will probably continue to do so until trade improves.

TABLE Vg.

Statement of Sale of Foods and Free Samples during the Year 1924.

Shore Hing County	Cows Milk.	Dried Milk.	Lactogol.	Virol.
Foods Sold£	£ s. d. Nil.	£ s. d. 664 9 6	£ s. d.	
Foods Supplied Free£	1266 3 6	194 9 2	0 7 6	14 1 8
Totals	1266 3 6	858 18 8	11 6 3	88 17 7
The special region	Ovaltine.	C.L.O. Emulsion	C.L.O. and Malt.	
Foods Sold£	£ s. d.	£ s. d.	£ s. d.	
Foods Supplied Free£	19 8 6	4 12 3	10 8 1	
Totals	198 9 4	22 13 9	21 12 I	o.
8 2 3	1924.	1923.	1922.	1921.
Value of Foods Sold	£ s. d. 958 10 6	£ s. d.	£ s. d.	£ s. d.
Value of Foods Supplied Free	1509 10 8	932 4 1	576 0 3	893 8 3

Other Services rendered by the Committee in relation to Maternity.

Nature of Service	No. of Instances	Average Cost per Instance	Total Cost	Borne by the Council	Borne by the Applicant
The provision of a Midwife	- 115		£ s. d.		£ s. d.
,, ,, Home Help . ,, ,, Doctor		2 11 6	A STATE OF THE PARTY OF THE PAR	89 15 0	3 ° ° ° *

SUMMARISED STATEMENT OF THE WORK OF THE HEALTH VISITORS. TABLE VG.

District	d and	Ante-							Visits to	100						
		Natal	Births	ths	ō	Older Children	hildre			0	iseas	Disease Conditions	ditio	38		.1-5
	Wards	nogi (Terra ago: o	siisiV isl	stisiV-9A	1—2 years	2—3 years	3—4 years	4—5 years	Ophthalmia Neonatorum	Puerperal Fever	Diarrhoea, etc.	Measles	Whooping Cough	Mumps, Chicken Pox, etc.	Epidemic Enteritis	Total Visits
in the last	Fishwick	330	456	1290	564	281	265	337	6	н	. :	457	91	901	н	4113
14	Deepdale Park (part of)	76	64	447	241	81	33	70	4 1 190	:	:	255	4	98		1357
2	Park (part of) Trinity	202	480	980	206	810	625	671	Ovalti	:	:	413	18	250	II	5166
3	St. Peter's Moorbrook Maudland(partof).	206	390	390 1210	352	376	279	336	64	:	:	341	:	147	:	3639
4	Christ Church Ashton Maudland(partof).	151	346	984	623	582	603	328	00	:	:	329	9	204	20	4184
5	St. John's	158	353	966	695	516	375	370	5	:	:	245	53	243	4	4013
	Totals	1123	7996	9		01101	6,					3234			1	22472

THE WORK OF THE VOLUNTARY WORKERS' ASSOCIATION.

The following items are abstracted from the Ninth Annual Report of the Association. The amount and the quality of the work done demand a continuous and self-sacrificing effort on the part of the ladies concerned for which no praise is too high.

SNOW HILL CENTRE.

1.—Treatment Department.

(Dr. Rhoda Murdoch).

		Cases.	A	ttendances	5.
1921	 1444	145		787	
1922	 	775		1470	
1923	 ***	990		1650	
1924	 	1184		1920	

The cases are children under 5 years of age suffering from so called Minor Ailments, and include Rickets, Tuberculosis of Glands, etc., Anaemia, Epilepsy, and Gastro Intestinal and Respiratory conditions.

2.—Massage Clinic.

(Miss G. W. Spencer).

		Cases.	Att	tendance	es.
1921		 34		892	
1922	110	 36		1012	
1923		 47		1020	
1924		 52		1119	

Diseases treated:—Deformities and Paralysis due to Rickets, Infantile Paralysis and Congenital Deformities.

3.—Dental Clinic.

(Mr. P. A. Gardner, L.D.S.).

			ases	ily used	At	tendances.
		Women		Children		
1922	ilb	 54	100	18		270.
1923		 124		30		290
1924		 Mark Tools	-195-	W Indian	- 1/2	360

		1		-	200000		
Det	sile	of .	Dental	0	perati	ann	
2	CHID	OT.	The CHIEFETT	-	The Fee FE	CHAN	

	- P						
				1922.	1923.	1924.	
Extractions :-							
Local Ana	esthe	etic		250	 170	 85	
General				34	 60	 125	
Simple				6	 5	 4	
Fillings				112	 160	 140	
Dressings				73	 70	 120	
Scalings, etc.			PQ	50	 60	 50	
Dentures :-							
Partial Se	ts			-	 7	 13	
Complete	Sets	.7.		-	 5	 4	
Cases complete	ed			13	 13	 17	

The total cost for Dentures during 1924 has been £59 15s. od., of which £23 14s. 6d. has been contributed by patients.

4.—Cookery Lessons.

"Mrs. Simmonds has conducted a highly successful short course of lessons in plain cooking at the Snow Hill Centre on Tuesday evenings. As the Mothers attended without their children they were able to derive much more benefit from the course, and this fact seems to indicate there is scope for further development on educational lines, possibly in the direction of Home Nursing, etc."

BABY DAY.

"Baby Day was successfully celebrated on Wednesday, 24th September, when two gatherings took place in the Public Hall. In the afternoon the mothers from the various Welfare Centres attended with their children, and after partaking of tea they had the pleasure of witnessing a film appropriate to the occasion.

There was a good exhibition of various work undertaken by the mothers during the year, when in attendance at the Centres. Specimens of Needle Work, Knitting, Renovating, Plain Cooking, etc., were amongst the exhibits. The difficult task of judging was undertaken by Misses Bannister, McCourty, and Marshall, who deserve the best thanks of the Committee for their exacting labours.

The evening meeting was fairly well attended. The Mayor (Alderman F. W. F. Matthew) presided, and was supported by Councillor Mrs. Astley-Bell, Councillor Mrs. Pimblett, Councillors Durham and Hunt, and Dr. F. A. Sharpe (Medical Officer of Health).

After the Mayor had paid a tribute to the Infant Welfare Organisation of the town, Dr. Sharpe enlarged upon the various activities connected with Child Welfare that were directly under the control of the Council, plainly indicating that if the facilities provided were only used to the fullest extent much unnecessary pain and suffering could be avoided by many of the poor women of the town.

During the afternoon and evening Mr. Will Onda kindly exhibited several films, both entertaining and instructive in character, and in the evening the Preston Light Orchestra, who also gave their services, played most attractive selections, under the able conductorship of Mr. J. Roy Hulme."

VI.—Sanitary Administration.

(1) STAFF.

F. A. Sharpe, M.D.(Lond.), B.S., D.P.H.

Medical Officer of Health, Schools Medical Officer, Port Medical
Officer, Tuberculosis Officer.

James Walker, M.B., Ch.B., D.P.H., Vict. Assistant Medical Officer, Clinical Tuberculosis Officer.

Mary Lowry, M.B., Ch.B., M.A. (Edin.).
Assistant Medical Officer, Maternity and Child Welfare Officer.

RICHARD FINCH, F.R.C.V.S., D.V.S.M., Veterinary Officer and Officer in charge of Food Inspection arrangements.

W. H. ROBERTS, F.I.C., Borough Analyst.

Chief Clerk: W. Sharp.

Matron, Isolation Hospital: J. G. BOOTH.

Matron, "Chestnuts" Hospital for Consumption: F. KEENE.

Health Visitors: M. M. BOTTOMLEY, E. A. COOPER, L. ROSS, E. PARK, D. LAFFERTY, J. MORTIMER.

Tuberculosis Nurses: J. Edmondson, M. Cole.

Sanitary Inspectors: W. Baron, Cert. R.S.I. E. Crossthwaite, Cert. R.S.I. H. Holden, Cert. R.S.I. H. D. Wright, Cert. R.S.I. J. B. Morgan, Cert. R.S.I. H. Hornby, Cert. R.S.I. A. S. Williams, Cert. R.S.I.

(2) HOSPITAL ACCOMMODATION.

The Hospital is a modern institution, consisting of an administration block, 4 ward blocks, laundry, and other necessary premises.

The ward blocks contain two main wards and two side wards each. The accommodation is for 60 beds.

During the year 374 cases were admitted, compared with 334 in 1923 and 312 in 1922.

In addition to Enteric Fever, Scarlet Fever, and Diphtheria, a large number of cases of other illnesses were treated.

84 TABLE VIA.

	In	Adn	nitted			Remaining	
Disease	Hospital Dec. 31, 1923	No. Per cer No. of Notifie		Dis- charged	Death	Dec. 31,	
Enteric Fever		I 2	67	12	Mid Tor	MO	
Scarlet Fever	14	188	86	179	I	22	
Diphtheria	3	115	88	93	6	19	
Measles	9	31	1.4	22	4	5	
Erysipelas Tuberculous		6	15	6	H.W., 78	MARY LOY	
Conditions	1	2		2	1	-8A	
Pneumonia		5	5	3	1	2 I	
Encephalitis	19 lexuit		A Save Con			Last with	
Lethargica (Infantile	and the same	4	80	4		ada	
Paralysis)			neb dayon			W H. R.	
Puerperal Fever		5	62	2	3		
Anthrax				I		DO LAND	
Chicken Pox		3	I	3			
Marasmus		3		I	I	no told	
Totals	19	374		328	17	48	

TABLE VIB.

Length of Stay in Hospital of Patients who died or were discharged in 1924 whether admitted in that year or previously.

Disease for which	No. of Cases Died or Discharged	Days in	Average length	Corresponding Figures for :				
admitted.	during 1924	Hospital	of stay	1923	1922	1921		
Enteric Fever	12	232	19'33	20'00	25.22	29.57		
Scarlet Fever	180	6228	34.60	32.66	35.86	33.85		
Diphtheria	99	2564	25.89	23.00	30 44	39.49		
Measles	26	487	18.73	40 50	17'33			
Erysipelas	6	105	17.5	7.50.		. Olindie		
Tuberculous Conditions.	3	192	64.00	6.33	EHOSPIER			
Pneumonia	4	90	22.50	13.20	tual period	id baka		
Encephalitis Lethargica			the Mann		Chica and			
& Acute Poliomyelitis	4	107	26.75	5.00	d bhow			
Puerperal Fever	5	52	10.40	14.00	38.00	SOMESTICE,		
Anthrax	I	72	72.00	The state of				
Chicken Pox	3	36	12.00		- megal			
Marasmus	2	88	44.00		· · · · · · · · · · · · · · · · · · ·			
Total	345	10253	29'7	27.63	32.87	32.00		

TABLE VIc.

Disease for which Admitted.	Total Days in Hospital	Average Beds occu-	Corresponding Figures for:					
	in 1924	pied daily	1923	1922	1921			
Enteric Fever	232	0.63	081	0.25	0.66			
Scarlet Fever	6489	17.77	17'27	18:49	26.14			
Diphtheria	2782	7.62	7.32	9.81	9.63			
Measles	487		The state of					
Erysipelas	105		non to m					
Tuberculous Conditions	101		131 110 1					
Pneumonia	90							
Encephalitis Lethargica & Acute Poliomyelitis	107	2.99	0.99	0.08				
Puerperal Fever	52	13.121.1						
Anthrax	23							
Chicken Pox	36							
Marasmus	88		mmvi-					
Total	10592	29'01	26'40	29.80	36 43			

TABLE VID.

Diagnosis of Cases admitted in 1924.

						A	Actu	ıal	Dis	seas	e foun	d				
Disease for which admitted.	Pneumonia	Constipation	Gastro Enteritis	Teething Rash	Skin Disease	Sc. Fever & Diphtheria	German Measles	Small Pox	Sunstroke	Marasmus	Septic Throat C'ditions other than Diphtheria	Scarlet Fever	Diph. & Chicken Pox	No Disease diagnosed	Orig. Diag. confirmed	TOTAL
Enteric Fever	1	1	1								Tim				9	12
Scarlet Fever				1	1	1	1				***		***	4	180	188
Diphtheria	2	***	1.1			1	1	****		-	11	8	1	2	89	115
Measles	-	***		***	***			***			198			-	31	31
Erysipelas				***											6	6
Tuberculous Conditions.	***									***					2	2
Pneumonia	-				***									***	5	5
Encephalitis Lethargica				-											o live	130
& Acute Poliomyelitis									1	1					2	4
Puerperal Fever															5	5
Chicken Pox								1							2	3
Marasmus															3	3
	3	1	1	1	1	2	2	1	1	1	1	8	1	6	334	374

VII .- Housing.

That portion of the work of the Public Health Department relating to the fitness of dwellings has been dealt with in Section II. A summary appears in the appended Schedule:—

In the Inspections under the Housing Regulations, 1910, attention is directed to the number of rooms per house, and the number of persons occupying them. The following are the facts elicited:—

Enquiries re Housing-357.

Total Occupants-1,572.

TABLE VIIA.

THE OF				-	Num	ber o	f Per	ons	per I	House	e.			To	TOTAL.	
No. of Rooms 1 2 3 4 5 6 7 8 9 10						11	12									
			Late			No	of F	amili	es.	ening L	Mel			Houses.	Occupants	
ı Room																
2 Rooms														••		
3 Rooms		1												1	1	
4 Rooms		6	30	31	32	31	16	3	12	3	2			166	702	
5 Rooms		3	12	21	26	15	19	2	6	5	2	1		112	521	
6 Rooms		3	11	15	15	9	10	5	1	3	1	1		74	326	
7 and over				1		1		2						4	22	
Total Families Total Persons		13 13	53 106	68 204	100000000000000000000000000000000000000		45 270	12 84	19 152	11 99	5 50	2 22		357	1572	

The figures above the heavy lines represent families living under conditions of overcrowding, that is, more than two persons per room.

There is no evidence of gross overcrowding, the average number of persons per house being 4.40, as compared with 4.26 at the 1921 Census; 6 houses (1.6 per cent.) were overcrowded. The occupants of these overcrowded houses numbered 48 or 3.05 per cent. of the whole; the corresponding figure at the 1921 Census was 7.4.

The Census for 1921 gives the population of the Borough as 117,426, an increase of 313 since 1911. The Registrar-General estimates the population in 1924 to be 123,100, an increase of 5,674. The natural increase, that is, the excess of births over deaths, was 7,504.

The houses erected since the 1911 Census are shewn below to amount to 1,332, which on the basis of 4.26 persons per house is sufficient to absorb the natural increase, but make no provision for those badly housed or in lodgings or overcrowded.

No. of Houses built each year 1911 to 1924.

1911					
-		4 4 4			193
1912		***			143
1913	***		***		142
1914					118
1915					95
1916					45
1917					19
1918					2
1919				***	I
1920					13
1921					8+226 by the Council.
1922			5		33 + 244 ,, ,,
1923					50
1924				***	186
					1518

From August, 1923, to December, 1924, a subsidy has been granted on 149 houses included in the 186 above.

HOUSING SCHEDULE

HOUSING SCHEDULE.	
Number of new houses erected during the year:-	
(a) Total	186
(b) As part of a municipal housing scheme	
1.—Inspection.	
Total number of dwelling-houses inspected for housing defects	

5785

(under Public Health or Housing Acts)

Number of dwelling-houses which were inspected and recorded under the Housing (Inspection of District) Regulations,	372*
1910	3/2
Number of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation	2
Number of dwelling-houses (exclusive of those referred to in the preceding sub-heading) found not to be in all respects reasonably fit for human habitation	5207
* Included in 5,785 above.	
COL TABLE VIDA	
2.—Remedy of Defects without Service of Formal Notices.	
Number of defective dwelling-houses rendered fit in consequence of informal action by the Local Authority or their Officers	5162
3.—Action under Statutory Powers.	
3. Itelian cham biliteran Landin	
(a). Proceedings under section 28 of the Housing Town Planning, &c.,	Act, 1919.
	Act, 1919.
(a). Proceedings under section 28 of the Housing Town Planning, &c., Number of dwelling-houses in respect of which notices were	
(a). Proceedings under section 28 of the Housing Town Planning, &c., Number of dwelling-houses in respect of which notices were served requiring repairs	
(a). Proceedings under section 28 of the Housing Town Planning, &c., Number of dwelling-houses in respect of which notices were served requiring repairs Number of dwelling-houses which were rendered fit— (a) by owners (b) by Local Authority in default of owners	
(a). Proceedings under section 28 of the Housing Town Planning, &c., Number of dwelling-houses in respect of which notices were served requiring repairs	M.E.m.
(a). Proceedings under section 28 of the Housing Town Planning, &c., Number of dwelling-houses in respect of which notices were served requiring repairs Number of dwelling-houses which were rendered fit— (a) by owners (b) by Local Authority in default of owners Number of dwelling-houses in respect of which Closing Orders	
(a). Proceedings under section 28 of the Housing Town Planning, &c., Number of dwelling-houses in respect of which notices were served requiring repairs	M.E.m.
(a). Proceedings under section 28 of the Housing Town Planning, &c., Number of dwelling-houses in respect of which notices were served requiring repairs	M.E.m.
(a). Proceedings under section 28 of the Housing Town Planning, &c., Number of dwelling-houses in respect of which notices were served requiring repairs	· Nil.
 (a). Proceedings under section 28 of the Housing Town Planning, &c., Number of dwelling-houses in respect of which notices were served requiring repairs	· Nil.

(c). Proceedings under sections 17 and 18 of the Housing, Town Planning, &c., Act, 1909.

Number of representations made with a view to the making of Closing Orders

Number of dwelling-houses in respect of which Closing Orders were made

Number of dwelling-houses in respect of which Demolition Orders were made

Number of dwelling-houses demolished in pursuance of Demolition Orders

7 Houses were voluntarily closed and 6 demolished.

During the year an investigation was made into the housing conditions in a congested area comprising property in the three streets Springfield Place, Buckingham Street and Clarence Street, involving 4, 14, and 29 houses respectively, making a total of 47 houses occupied by a total of 218 persons. Most of the houses are of the four-roomed type, comprising a living-room and a small scullery on the ground floor and two bedrooms on the upper floor. The average rent is 4s. per week.

The houses were found to be in a general condition of delapidation and disrepair, and considering them as individual dwellings the works necessary to render them in all respects reasonably fit for human habitation would have amounted to reconstruction—an impossible demand to make on owners commanding such small rents. There were, however, other considerations which indicated that demolition and re-housing of the occupiers on a fresh site was the only remedy.

The deficiency of light, air, and ventilation, and the want of proper sanitary conveniences was found to be such that the houses were unhealthy, irrespective of their condition of repair. There was found to be a concentration of 45.71 occupied houses per acre as compared with 6.83 houses per acre in the Borough, and a population of 212.04 persons per acre as compared with 29.75 persons per acre in the Borough.

All the houses were found to be short of yard space; 20 of them were without proper w.c. accommodation, and in 16 others weekly removal of house refuse had to be effected through the living room, there being no communication between the yards and street except thereby.

The area was submitted as a "Part I. Scheme" to the Health Committee on 18th November, 1924. Owing to difficulties which would have been encountered in re-housing, aggravated by the shortage of houses which already existed in the Borough, it was the opinion of the Committee that the time was not opportune for proceeding with the scheme. Meanwhile every effort is being made, by co-operation with the owners, to give immediate attention to nuisances and sanitary defects as they arise, to maintain the area in as healthy a condition as is possible under difficulties which will continue until some method is formulated to deal comprehensively with the area.

Although there is no evidence of numerical overcrowding in the Census recorded above, yet everyone is familiar with the more disagreeable kind of overcrowding caused by the presence of more than one family in a house. Instances abound where the son or daughter of a house has married, and in the absence of a house suitable to a young couple's purse have begun married life at the house of either parents. Apart from the additional overcrowding caused by such a procedure, the loss of temper and consequent rupture in what should be cordial relationship, marriage under such conditions starts with none of the inducements for either party to make mutual concessions and to learn the art of house management. The case is no better if the lodger should be a stranger, except that in many cases the relationship of tenant and lodger is further embittered by the extortion of a very high sub-rent.

The question of the provision of a large number of small houses which can be let at something approaching an economic rental remains the most urgent problem of the public health. COUNTY BOROUGH OF PRESTON.

THE SCHOOL MEDICAL SERVICE

ANNUAL REPORT

For the Year ending 31st December 1924.

The Medical Service Sub-Committee of the Elementary Education Sub-Committee, January 1st-November 9th.

Mr. Alderman J. Hubberstey, Chairman.

Mr. Councillor T. Snelham.

Mr. Councillor J. Herbert. MR. COUNCILLOR W. E. MORRIS.

MR. COUNCILLOR A. RAMSEY, M.B., C.M.

Mrs. Councillor A. M. Pimblett.

THE VERY REV. MGR. E. PYKE.

E. P. Berry, Esq. H. Howarth, Esq.

MISS HOYLE.

MRS. MEGAHY.

The Medical Service Sub-Committee of the Education Committee, as from November 10th.

THE CHAIRMAN OF THE EDUCATION COMMITTEE (Mr. Councillor Snelham). THE VICE-CHAIRMAN OF THE EDUCATION COMMITTEE (Mr. Councillor Firth). THE CHAIRMAN OF THE HIGHER EDUCATION SUB-COMMITTEE (Mr. Councillor Snelham).

> THE VICE-CHAIRMAN OF THE HIGHER EDUCATION SUB-COMMITTEE (E. P. Berry, Esq.)

> THE CHAIRMAN OF THE ELEMENTARY EDUCATION SUB-COMMITTEE (Mr. Councillor Adkins).

THE VICE-CHAIRMAN OF THE ELEMENTARY EDUCATION SUB-COMMITTEE (E. P. Berry, Esq.)

Mr. Councillor Collinson, M.D.,

F.R.C.S.

MR. COUNCILLOR LEY.

Mr. Councillor Durham. MR. COUNCILLOR HERBERT.

Mr. Councillor Ramsay, M.B., C.M. The Rev. Father Grafton.

THE VERY REV. MGR. PYKE.

H. Howarth, Eso.

MISS HOYLE.

MRS. MEGAHY.

THE REV. N. TREWBY.

Officers:

Superintendent School Medical Officer: F. A. Sharpe, M.D., B.S., D.P.H.

School Medical Officer: ELIZABETH ROSE, M.B., Ch.B.

Dental Surgeon: E. Hutson, L.D.S.

School Nurses: Margaret E. Marsden, Amy Butterfield, May Singleton, GERTRUDE WHALLEY.

Dental Nurse: Annie L. Whitehead.

Clerical Staff:

W. A. Kenny (Resigned November, 1924).

T. Gray (Appointed December, 1924).

C. Pomfret (Appointed May, 1924).

TO THE MEMBERS OF THE SCHOOL MEDICAL SERVICE SUB-COMMITTEE.

Mr. Chairman, Ladies and Gentlemen,

I have the honour to present to you the Annual Report upon the work of the School Medical Service during the year 1924.

In the Report for 1923 I stated that we had reached a position where no further improvement was possible without increase of staff and re-organisation.

The Report received very careful consideration at your hands, and it is hoped that the definite proposals made by your officials will come into force during this year.

At the time of writing a survey of the Mentally Defective Children is being undertaken. This effort has been made possible by the temporary medical assistance and the increased clerical assistance granted by your Committee.

The Military Authorities have given up the hospital at Moor Park, and the necessary alterations for its conversion into a School for Mentally Defective and Backward Children on open-air school lines are well advanced

The question of the provision of adequate treatment and supervision of the crippled child has been referred to frequently in my recent Reports. This subject deserves close attention, not so much from the point of view of the size of the problem, but rather from a realisation of the adverse physical, educational, and moral effect of the lack of organised treatment and supervision.

The question of the efficiency of the Dental Service has been raised in successive Reports, and to summarise what has been said before and what is dealt with in detail in the body of the Report, our present system is by reason of its small scope inefficient and not performing its true function of prevention.

The general growth of the demands made upon the service are such that the question of its re-organisation and an increase in the staff have become very pressing.

I have to thank my colleagues, Dr. Rose and Mr. Hutson, together with the members of the staff, for their excellent work and loyal support, and also for the ready sympathy and help always forthcoming from the Director of Education.

I am,

Your obedient Servant,

F. A. SHARPE, Medical Officer of Health and School Medical Officer.

Public Health Department, Tithebarn Street, Preston,

2.—CO-ORDINATION.

The scheme of supervision of child life under the auspices of the Maternity and Child Welfare Committee includes the visiting of children up to the age of five years. The records obtained in this way are transferred from the Public Health Department to the School Medical Service. Thus, during the past year a medical and social history of all children born in 1919 who entered upon school life during 1924 was furnished to the Inspecting Medical Officer and the important details transferred to the School Medical Card.

The Head Teachers report through the Director to the Medical Officer of Health all cases of absence supposedly due to infectious sickness. These children are visited, and a report furnished. The Director is kept informed of any exclusions necessitated and of re-admissions which have been advised. The offices of Medical Officer of Health and of School Medical Officer are combined in one person to the mutual advantage of both services.

3.—SCHOOL HYGIENE.

The accommodation available and the average attendance for the year 1924 are as follow:—

	Number of Schools.	Recognised Accommodation.	Average attendance for year ended 31st March, 1924.
Church of England Roman Catholic	19	13311 9322	6 ₇ 86 5773
Nonconformist	7 4	2933 2060	2256 1618
Total	39	27626	16433

The average attendance is 89 less than that of 1923, which was 24 less than that of 1922.

During the year decorations and repairs have been carried out at the following schools:—

Holy Trinity, St. James's Mixed, Talbot Infants, Christ Church Infants, St. Jude's.

4.—MEDICAL INSPECTION.

As in former years the same age groups were taken for Routine Inspections. These comprised (1) the children of 5-6 years of age, of which there were 1,566; (2) the children of 8-9 years of age, numbering 1,676; and (3) the children aged 12-13 years, numbering 1,881, making in all 5,123.

A comparison of the numbers in the three groups examined this year and in 1923 shows the following:—

1923.		1924.	
Intermediates	1951	Entrants	1566 1676 1881
Total	-	Total	
	39		3.23

5.—FINDINGS OF MEDICAL INSPECTION.

(a) UNCLEANLINESS.

Unfortunately the housing question is no better than it was last year, and the overcrowding must make it exceedingly difficult for mothers to keep their children as clean as they would like to do. In spite of this, however, one very rarely sees cases as bad as those which were fairly common some years ago.

Number of home visits paid by the nurses on account of uncleanliness :-

1924.	1923.	1922.	1921.	1920.
2972	2938	2691	2622	2446

The Nurses examined 21,308 children during their visits to schools. Of these 3,126 required attention on account of uncleanliness.

(b) MINOR AILMENTS.

Very few minor ailments are noted during Routine Inspection. The teachers notice these as they occur, and refer the child to the Inspection Clinic. By minor ailments is understood Contagious Skin Diseases and Sores, Conjunctivitis, temporary ailments such as Indigestion, Headaches, or Colds in the Head.

(c) TONSILS AND ADENOIDS.

The number of cases referred for treatment of Enlarged Tonsils and Adenoids was 297, the number for 1923 being 279.

			No. in-			
1924.	1923.	1922.	1921.	1920.	1919.	1918.
297	279	208	148	290	323	282

(d) TUBERCULOSIS.

As in former years children who were thought to be suffering from Tuberculosis disease were sent on to the Tuberculosis Dispensary. There were 25 cases dealt with in this manner. The question of school attendance or exclusion

and of arranging for treatment is decided upon by consultation between the Tuberculosis Officer and the School Medical Officer.

Classification of cases referred to the Tuberculosis Officer :-

				Boys.	Girls.	Total.
Tubercular	Glands		***	 -	I	I
Bronchitis			***	 3	5	8
No definite	signs of	Tub	erculosis	 4	II	15
Diagnosis 1	pending			 I		1

(e) SKIN DISEASE.

Not many children are referred for treatment during Routine Inspection, most of the minor skin troubles being observed by the teachers or parents, and the children affected sent on to the Inspection Clinic.

(f) EXTERNAL EYE DISEASE.

As in the case with the skin disease, by far the greater number of children suffering from External Eye Diseases have attention at the Treatment Centre Only 20 were noted during Routine work.

1924.	1923.	1922.	1921.	1920.
20	17	17	25	62

(g) VISION.

There were 651 children found to be suffering from Defective Vision. This shows an increase of 70 compared with last year, and taking the two groups of Intermediates and Leavers together the percentage of those requiring treatment is 14.2, as against 12.4.

Numbers for the last seven years :-

1924.	1923.	1922.	1921.	1920.	1919.	1918.
651	581	553	614	627	615	810

The following gives the distribution of the numbers in the two groups :-

Age.		No. examined.	No. referred for treatment	Percentage referred.
8-9 years.	Boys	 842	 118	 14.0
	Girls	 834	 139	 16.7
12-13 years.	Boys	 958	 115	 12.0
	Girls	 923	 132	 14.3

(h) EAR DISEASE AND HEARING.

There were 56 cases suffering from Ear Diseases noted during 1924 and 25 cases suffering from Deafness. These do not, of course, include the many cases which have been sent by parents or teachers, etc., to the Treatment Centre. The comparative numbers are:—

1924. 56	1923. 41	1922. 46	1921. 34	1919. 50	
			vi.		

(i) DENTAL.

The number of children submitted for inspection is slightly more than that of last year. Our scheme includes the examination of children ages 6 and 7, and the re-inspection of older children who have been inspected in previous years. Thus in June, 1915, at the inception of the scheme, the routine examination was of children aged 6 and 7. This took 2 years and 3 months to perform. At the next inspection new children aged 6 and 7 were examined and the children who had been examined previously, now aged 8 and 9, were re-examined. This examination took 4 years. We are now engaged upon the third inspection. This consists of new entrants, aged 6 and 7, re-examination of those examined in the second inspection, now aged 10 and 11, and the re-examination of those examined at the first inspection, now aged 13 and 14.

As pointed out in previous Reports, the length of time required to complete an inspection of children aged 6 and 7, with the necessary re-inspection, is a fatal bar to success. The officers of the Board of Education have pointed out this great weakness. The scheme as it stands fails entirely in its preventive aspect, in that children put right at 6 or 7 have three to four years in which to develop further defects. These defects are more numerous and much more severe than would be the case were the children re-examined every year. Quite obviously to re-examine certain children every year would mean an effective scheme as far as those particular children are concerned, but it could only be done by means of the employment of another Dental Surgeon or by more drastic restriction of the service. Our present scheme is restrictive, in that only children who are 6 and 7 at the time of inspection are included in the scheme, and as four years are required to get round, it follows that three-quarters of the children are not affected by its operation.

A reference to the table on page xiv. will show over 1,000 extractions. In a properly organised dental clinic, extraction should be a rare event. An extraction is a failure of preventive dental hygiene. An extraction demands time and energy which should be devoted to preserving teeth. Extractions should be performed at a hospital or by private dental practitioners.

(j) CRIPPLING DEFECTS.

A very detailed account of the Crippling Defects amongst school children was given last year. The actual numbers found at the Routine inspections will be found in the various tables given later.

In all, we may say that there are of school age 100 children who are crippled in some degree. Of these 30 owe their defect to Tuberculosis, 50 to Infantile Paralysis, 15 to Congenital Defects, and the remainder to Injuries and Rickets. Eighty-eight per cent. of them can attend an ordinary school without any difficulty; 12 require a special school where education and treatment can proceed side by side. Half the children would benefit by special treatment, and another quarter by after care. There can be no doubt as to the value of special remedial clinics for this class of case, where nurses who have had special training in this class of work, fitting on splints, massage, remedial exercise, etc., could work under the direction of an Orthopædic Surgeon.

6.—INFECTIOUS DISEASE.

Under the system in operation in the Borough it is the duty of the Head Teacher to report the occurrence of and the suspected occurrence of Infectious Diseases among the scholars to the Medical Officer of Health. The cases are visited by the staff of the Medical Officer of Health and the results of these visits transmitted through the Director to the Head Teacher. Information as to the period of necessary exclusion and the actual cause of absence in suspected cases is also given. Daily information collected from the records of the Sanitary Inspectors, Health Visitors, Tuberculosis Nurses and School Nurses is prepared and collated with the information in possession of the School Attendance Officers. The following table shows how the different schools were affected. Measles was present in epidemic form. There was an increase in the amount of Whooping Cough and Chicken Pox.

School closure was resorted to in one instance, viz., St. Stephen's Infants from June 24th until the end of the summer term (July 11th).

TABLE A.

Cases of Infectious Disease Reported by Head Teachers.

School.	Scarlet Fever	Measles	Whoop- ing Cough.	Diph- theria.	Chicken Pox.	Mumps.	Ringw'rm Eczema, Sore Eye : Heads, &c.	Influ- enza.
Parish Church			4	THE PARTY IN	10	I		
St. Jamés'								**
St. Augustine's		I			6	8		
St. Saviour's		6	24		2	7	4	
Grimshaw Street	I	7	10	I	16	4		
St. Stephen's	1	61	5		8	29	3	35
Christ Church		2						
Hincksman Memorial	2	18	1		9			
St. Mary's R.C	2	19			16		5	I
St. Wilfrid's	2	14	6		7		- 3	
St. Michael's	2	8			I	1		***
Sacred Heart	I	3						
Ashton Wesleyan		3			16			
St. Andrew's	I	3		2				
Roebuck Street Council	6	38		I	2		12	36
St. Walburge's		23		I	18	I	I	
St. Mark's	2	12		I	5	3		
St. Peter's	I	31			7			
Emmanuel	2	30		I				
St. Cuthbert's		15						
Eldon Street Council	I	49	I	I	3	I		
Moor Park Wesleyan		33			29			
English Martyrs' Elementary		53	I		8	3	5	
St. Jude's		25	18		5	6		
Deepdale Council	I	33	2		6	20	I	8
St. Paul's	I	II	I		9	I	I	***
St. Ignatius' Elementary		60	2	2	37	3	4	
All Saints'		15			5	I	I	
Holy Trinity	I	10	I					
Orchard U.M.F C		19		I	20	I		
St. Luke's		5			35			
St. Joseph's		18	2			***	I	
St. Matthew's	I	35	2	I	6	5	I	
St. Matthew's Branch		3						
Ribbleton Avenue	1	32	1		8	23		I
St. Mary's National		24	I	I	3			
St. Mary's Street Wesleyan		4				2	2	30
St. Thomas's	•••	II			5		****	
Open Air School			•••	***		2	•••	
Visits or Xi	30	734	82	13	302	122	44	III
Secondary Schools.						and T		
Park Secondary School	I	5			1	3		
Catholic Convent								
Catholic College								
Preston Grammar School	•••	•••		•••	•••			

7.—FOLLOWING UP.

In order to find out if the defects found during Routine Inspection had received adequate medical attention the Nurses paid 3,714 home visits, as compared with 3,649 in the preceding year.

No. of	visits	during the last	five years-
1924.	1923.	1922.	1921. 1920.
3714	3649	3667	3564 4080

The results of following up are best seen in a study of the figures given under Medical Treatment and of Table IV.

Children having defects are visited during their whole school life or until the defect is remedied. There have been no prosecutions.

8.—MEDICAL TREATMENT.

That the daily Inspection Clinic is appreciated by the parents and teachers is well shown by the number of children brought or sent each morning. The activating idea of the Inspection Clinic is the provision of a skilled and impartial adviser as to the propriety of school attendance. A large number of children are brought by the parents with the object of receiving an opinion as to the child's physical condition. Others to obtain if possible a reinforcement of their resistance to the School Attendance Officers' importunities. Others again are referred by these officers as school absentees on alleged medical grounds which require investigation. The need for this organisation, which was started in 1921, is shown by the increasing numbers attending.

INSPECTION CLINIC.

Particulars regarding attendances during 1924:-

				New				Left on
	Ist	Jan., 1	924.	Cases.	D	ischarge	ed.	
oility		24		81				
1		I		32		100000000000000000000000000000000000000		34
				1		2,		-
		11				401		The state of
		7						7
	***	IO						22
		13						14
		2					***	16
							***	2
		T					***	mark Transport
		4			***		***	
						54		21
te						43		24
						36		32
	***			15		13		13
	53.5	5		17	***	16		6
***	53.5	2		21		16		7
		31		918		934		15
		146		2458		2389		215
	on te cted	oility	On Book 1st Jan., 1 24 24 1 7 10 13 2 1 on 4 11 te 13 cted 11 5 2 31	On Books 1st Jan., 1924. Dility 24 1 1 7 11 7 10 13 2 1 on 4 te 13 cted 11 13 10 13 2 11 2 2 11 2 31 31	On Books 1st Jan., 1924. Cases. 81 24 81 32 1 397 397 304 10 170 13 178 2 98 2 98 1 40 on 4 71 11 56 te 13 55 17 55 17 55 17 31 918	1st Jan., 1924. Cases. D polity 24 81 1 32 1 1 397 170 170 98 40 40 56 <	On Books New 1st Jan., 1924. Cases. Discharge of the second of the secon	On Books 1st Jan., 1924. Cases. Discharged. 24

Total attendances for the last four years-

1924.	1923.	1922.	1921.
4920	4450	3453	1287

(a) MINOR AILMENTS.

The Minor Ailments Treatment Centre is open each morning (Saturday included) and each afternoon of the school week. The afternoons are more especially given over to cases of otorrhœa or cases where a second dressing is advisable.

The following table supplies the particulars for 1924.

MINOR AILMENTS TREATMENT CENTRE.

Defect.	Remaining on Books Dec. 31st 1923.	New Cases	Discharged.	Remaining on the Books Dec. 31st
Ringworm, Head and Body	16	143	147	12
Scabies	2	9	10	I
Impetigo	12	355	348	19
Other Skin Diseases	5	31	34	2
Otorrhoea	54	242	249	47
Blepharitis	14	240	237	17
Miscellaneous	51	1612	1578	85
Total	154	2632	2603	183

		At	New Cases.		
1924		***	tendance 32,233		2,632
1923	***		31,625		2,092
1922		***	30,964		2,175
1921			35,640		2,797
1920			29,605		2,402

VISITS OF NURSES TO CHILDREN FOUND DEFECTIVE.

		1921.	1922.	1923.	1924.
Home visits, following up		3564	 3667	 3649	 3714
Home visits re Cleanliness of Head		2622	 2691	 2938	 2972
Children inspected re Cleanliness of He	ead	22049	 21806	 22563	 21308
School visits		385	 416	 363	 315

(b) TONSILS AND ADENOIDS.

During 1924 there were 297 children found to be suffering from enlarged tonsils and adenoids. To 115 of these the Royal Infirmary gave operative treatment and non-operative treatment to four. Private practitioners operated on 13 cases and gave medical attention to 40. There were also 198 children who had been examined previous to 1924 who received treatment in the following manner:—

Infirmary: 169 surgical, 1 non-surgical. Private practitioners: 6 surgical, 22 non-surgical.

Summarising, 293 received operative and 67 non-operative treatment for their condition.

(c) TUBERCULOSIS.

The treatment of Tuberculosis is largely in the hands of the Tuberculosis Officer, who decides which children would benefit by residence in Sanatoria. He also advises the School Medical Officer as to which children should be excluded from school. Non-infectious cases are received at the Open Air School in Moor Park.

By agreement with the Preston Royal Infirmary, the Health Committee retain two beds at the Royal Infirmary for the treatment of acute surgical tuberculosis and four beds at Heswall, Cheshire, for the treatment of the more chronic cases. This latter institution is approved by the Board of Education as an educational establishment.

The Committee have also arrangements for the treatment of Pulmonary Tuberculosis at various sanatoria. The numbers of children treated during the year is as follows:—

		Boys	Girls
Freshfield (Southport)	5	 I	10
Bowden (Cheshire)		 	9
Eastby (Skipton)		 8	
Heswall (Cheshire)		 I	2
Preston Royal Infirmary	***	 II	10

(d) SKIN DISEASE.

The number referred for treatment on account of Skin Disease was, as in former years, small, being only 27, as compared with 28 last year, the percentage being .53.

(e) EXTERNAL EYE DISEASE.

As in 1923 Blepharitis was the commonest external eye disease, and although comparatively few were referred for treatment by their own doctors many were treated for this condition at the Clinic.

(f) VISION.

The number of children found to have Defective Vision was 651, of whom 381 received treatment. Including cases belonging to former years there were 891 cases which were submitted to refraction: 818 of these had attention at the Infirmary, the remaining 73 having gone to private doctors or opticians. Glasses were obtained by 469 children, or 53 per cent.

The Education Committee provide glasses for all necessitous cases. Seventeen children took advantage of this part of the scheme, so that the balance represents that large class of persons who do not obtain the needed glasses on the following suggested grounds:—

(1) They do not believe in the existence of a defect.

(2) They object on æsthetic grounds to the wearing of glasses.

(3) They think that the wearing of glasses is prejudicial to the obtaining of employment.

(4) They are indifferent or idle.

(g) EAR DISEASE AND HEARING.

There were 81 cases of Ear Disease or Defective Hearing referred for treatment during the year. Many more cases are sent on to the Treatment Centre, the number for 1924 being 296.

(h) DENTAL DEFECTS.

The large amount of work done by the Dental Department can be best seen by a glance at the tabular report. Twenty-seven more children attended the Dental Clinic than in 1923, and 50 more attendances were recorded. There were 71 more extractions, 160 more stoppings, but 264 fewer dressings than in the previous year.

ANNUAL REPORT OF THE SCHOOLS' DENTAL OFFICER. For the Period January 1st to December 31st, 1924.

									Pa	Particulars of Attendances and Work at Dental Clinic.	f Attendan Dental Clin	ces nic.	
SCHOOLS VISITED	Children Examined at School	No Treatm't Required	Number requiring Treat- ment.	Number accepted Treat- ment.	Number refused Treat- ment.	No Informa- tion available	Own Dentist.	Number attended Clinic	No. of Actual Attend- ances at Clinic	No. or Teeth Extracted	No. of Stoppings	No. of Dressings	No. of Scalings
Boner's						:	:		5.5	:	93	II	:
v'e R C	102	40		47	1	:	Н	41	136	:	194	58	3
Enolish Martyrs	444	215	229	155	34	:	40	171	626	:	968	311	7
St. Thomas's	215	94	121	75	38	:	∞	71	CH	2	467	991	12
St. Wilfrid's	79	35	44	29	2	:	13	28	138	:	184	74	3
or Park Wesleyan		06	911	67	I	:	84	52	235		309	144	3
		57	75	53	2	:	20	51	217	::	311	105	9
	981	63	123	87	5	::	31	46	10	3	240	880	I
	103	34	69	69	:	:	:	51	227	2	262	81	:
Casuals Examined at Dental													
	2901	:	1901	1901	:	:	:	1901	1441	1014	945	72	:
								W					
				iliot			V.						
TOTALS 192	4 2534	637	1897	1649	87	:	191	1578	3554	1021	3898	1110	35
192	3 . 2511	627	1884	1669	54	:	191	1551	3504	950	3738	1374	59
192		719	1820	1578	98	:	156	1539	3595	926	3786	1570	35
		1047	1871	1570	42	:	259	0	3760	731	78	1909	15
		1066	1531	1365	31	23	112	1334	3515	433	3047	3159	00
	-	870	1069	986	26	23	34	1052	2442	497	9261	2238	4
do 1918		171	1486	1278	102	52	54	1287	9261	437	2035	1650	12
		353	1470	1268	103	27	72	9111	2044	683	1301	1762	43
-	10	1428	1340	1234	46	OI	95	1220	2388	771	2084	2480	105

(i) SPEECH DEFECTS.

Unfortunately it has not been found possible to do anything in the way of starting a class for the benefit of those children who suffer from defects in speech

9.—OPEN AIR EDUCATION.

(a) PLAYGROUND CLASSES.

There are no Playground Classes in this area.

(b) OPEN AIR SCHOOL.

The Open Air School continues to do its good work. Its greatest fault was that it was too small, but now that the Military Authorities are dispensing with the block next to the school there will be more room obtainable and children who have been on the waiting list for months will be admitted.

The number of those who attended during 1923 and 1924:-

						1924.	1923.
On the Books	ıst Ja	nuary,	1924	***		83	 89
Admitted						57	 49
Discharged			***		***	68	 55
Remaining on	Books	31st I	ecembe	er, 192	4	80	 83
Re-admitted				***		8	 10

Average daily attendance during the year was 72.7, as compared with 74.00 during last year.

The Age and Sex of those admitted.

Age		 	6	7	8	9	10	II	12	13	14	Totals
Boys		 		2	3	4	10	5	4	4	1	33
Girls		 		5	3	6	5	4	6	3		32
Dischar	ged-					7					1	
Boys		 			2	4	I	7	3	6	5	28
Girls		 		1		3	8	6	5	II	6	40

The average length of stay of those discharged in 1924 was, inclusive of holidays, 18 months 13 days. In 1923 this figure was 19 months 17 days.

10.—PHYSICAL TRAINING.

No specially trained instructor has been appointed. At all the schools careful attention is given to the physical training of the children. The syllabus prepared by the Board of Education is used, and marked benefit is received.

11.—PROVISION OF MEALS.

The number of free meals supplied to children is lower than that of last year, being 71,585, as compared with 79,715, and the number of children 478, as compared with 696.

The following table gives the particulars with regard to each of the four centres:—

Centre.	Number of Meals supplied.	Number of Children.
Marsh Lane	17384	135
Glover's Court	36422	225
Maitland Street	6995	48
Roebuck Street	10784	70
Total	71585	478

12.—SCHOOL BATHS.

3,912 Attendances were made by boys and 3,463 by girls at the Saul Street Baths.

In addition to these the Open Air Baths were used by large numbers of children whenever the weather proved suitable.

13.—CO-OPERATION OF PARENTS.

As time goes on, parents are becoming more willing to take advice regarding the health of their children. There is no doubt that the work begun by the Infant Welfare Centres has its effect when the children become of school age.

14.—CO-OPERATION OF TEACHERS.

One cannot speak too highly of the cordial help and co-operation of the school teachers in furthering the efforts of the service. They spare themselves of neither time nor trouble in ensuring by daily observation of their charges that ailing children shall come under the notice of the doctor or nurses.

15.—CO-OPERATION OF SCHOOL ATTENDANCE OFFICERS.

There is very close co-operation between the School Attendance Officers and the school medical work. Each week a list of the absentees from the Treatment Centre is given to them, so that irregular attendance may be avoided as far as possible. As formerly, they take charge of cases requiring free clogs or glasses and obtain records of all specially defective children. The Juvenile Employment lists are also in their care, the children requiring Medical Inspection being sent on by them to the Inspection Clinic.

16.—BLIND, DEAF, DEFECTIVE AND EPILEPTIC CHILDREN.

Ten children were examined on account of Mental Deficiency, the necessary certificates being forwarded to the Director of Education.

Blind (including partially Blind) attending Certified Schools	Blind Asylum, Liverpool Blind Home, Fulwood Do. do	5 Boys.
Deaf and Dumb attending Certified Schools	Royal Cross School, Preston Do. do. Boston Spa Do.	
Mentally Defectives attending Certified Schools	Pontville	3 Boys 2 Girls.

17.—SECONDARY SCHOOLS.

PARK SCHOOL.

The fine airy buildings and the excellent instruction in physical culture have no little part in the good health and fine physique of the girls attending the Park School. There were 521 girls examined during the year, compared with 395 in the previous one.

The following report, for which thanks are due to Miss Warne and Miss

Bass, gives the percentages of those found with defects.

Number examined.	Age.	No Defect.	Defect.	Defects.
23	10	30%	57%	13%
73	11	42%	55%	3%
91	12	57%	37%	6%
95	13	57%	39%	4%
92	14	47 %	42%	11%
72	15	50%	42%	8%
46	16	52%	46%	2%
23	17	52%	35%	13%
6	18	84%		16%

Return of Defects found in the course of Medical Inspection in 1924.

Defect or Disease,	Number recommended for Treatment.	Number kept under observation.
Heart and Circulation		 5
Lungs (Bronchitis, etc.)		 1
Skin Affections		 _
Ear Affections	. 2	
Dental Defects	. 221	 3
Defective Vision	. 21	 7
Tonsils and Adenoids	. 6	 _
Nervous System		 no de la
Other Defects and Diseases	. 10	 2

GRAMMAR SCHOOL.

The number of boys examined during the year was 383, as compared with 322 in 1923.

The health of the school as a whole has been good, and the standard of

physical fitness of the new boys has been maintained.

The total number of defects found during the course of routine examination shows a slightly higher percentage than in the previous year. In the great majority of cases, however, the defects have not been of a serious nature. Dental diseases alone have accounted for 39 per cent. of the total defects.

There has been little difficulty in getting treatment carried out when necessary, and in most cases the defects have been remedied by the time of the

next examination.

The following tables show the number of boys examined and the defects found in the different age groups.

Ages	8	9	10	11	12	13	14	15	16	17	18	Total
Malnutrition							0					
Clrip Disances	I		****	I			2				• • • •	4
	***										•••	
Eye Diseases	I	1	2	4	4	12	10	3	2			39
Ear Diseases	***				I	I		1			***	3
Nose and Throat			I	2			I		1			5
Cervical Glands					I							I
Defective Speech					2			I				3
Teeth, Dental Diseases .	3	I	9	9	14	8	II	6		I		62
Heart and Circulation			3	4	4	5	5	3				24
Lungs							I	I				2
Tuberculosis—	2.00				-			-				-
Dulmonory							NE					
Man Distances												

Nervous System				***								
Deformities						***	6	I				7
Other Defects & Diseases	•••			I	2	2	3	I	•••	I		10
Total Number Examined	5	4	22	38	73	78	87	52	19	8	3	383

18.—EMPLOYMENT OF CHILDREN AND YOUNG PERSONS.

181 Children were examined for work during 1924, the number for 1923 being 168.

Delivering newspapers, delivering milk, or going errands were the usual forms the employment took, and most of the children were quite strong enough to undertake the work.

19.—TREATMENT OF UNCLEANLINESS.

(a).	The average number of visits per annum made by the School Nurses to each School	3
(b).	The total number of Examinations of Children made by the School Nurses at the Schools during the year	21308
(c).	The number of individual children found unclean	3126

TABLE I.—Return of Medical Inspections. 1st January to 31st December, 1924. A.—ROUTINE MEDICAL INSPECTIONS.

	Number of Code	Group Inspections	
	Boys	Girls	Total
Entrants	787 842 958	779 834 923	1566 1676 1881
Routine Inspections		141	
Total	2587	2536	5123

B.—OTHER INSPECTIONS.

	Boys	Girls	Total
No. of Special Inspections	34	142	280
No. of Re-Inspections	139	127	266
Total	273	269	546

TABLE II.—Return of Defects found by Medical Inspection in the year ended 31st December, 1924.

		ROUTINE	INSPECTION	SPECIAL	INSPECTIONS
		NO. OF	DEFECTS.	NO. OF	DEFECTS.
	DEFECT OR DISEASE.	Requiring	Requiring to be kept under observation but not requiring	Requiring Treatment	Requiring to be kept under observation but not requiring
	1	23	2 2	+	Treatment 5
Malnutrition	u	:	:	:	
Uncleanliness	ss Head		:		:
54	Body	:	:		:
	Ringworm, Scalp				
	-			:	
Skin	Scabies	5	:	: :	0
	Impetigo	7	:		
	OtherDiseases(non-tubercular)	21	I	9	
	Distriction				
	Conjunctivitis	13	:	н ,	:
	Keratitis	0	:	1	:
	Corneal Opacities	: *	:	: '	:
Eye	0		: :	, ,	::
	2	424	50	124	:
	Other Conditions	10	2	m	
		40	7	0	:
T)	-	25	7	13	
Edi		55	:.	6	
	Other Ear Diseases	I	:	2	:
	(Enlarged Tonsils	174	19	30	
Nose and		32	6	20	:
Throat	Enlarged Tonsils and Adenoids	00	:	7	::
	Conditions	20	IO	9	***

: :	:		: :	::::		111	: : :	
8	I	4 2 1	11 2	: "	11111	111	:::	29
: :		9 2 4	32 I3		11111	:::	i i ^H	6
71	32	21 15 94	63	91 2	11111	111	444	72
Enlarged Cervical Glands (non-tubercular). Defective Speech	Teeth: - Dental Diseases	Heart Disease:— and Circulation Anaemia	Lungs (Bronchitis	Pulmonary:— Definite Suspected Non-Pulmonary:— Glands	Hip Other Bones and Joints Skin Other Forms	Nervous (Epilepsy Chorea System (Other Conditions	Deformities Spinal Curvature	Other Defects and Diseases

TABLE III.—Return of all Exceptional Children in the Area.

								9
тотоТ	7 ::: 7	9 2 : 5	∞ 4 : :	: " : :	99::	 9	н ;	3
shiĐ	9::9	н ю : ю	· · · · · · · · · · · · · · · · · · ·	: 8 : :	: " : :	: + :	н :	I
Boys	٠: : :	т 2 : :	~~::	:-::	2 1 : :	.: S	::	2
	Attending Certified School or Classes for the Blind Attending Public Elementary Schools At Other Institutions At no School or Institution	Attending Certified School or Classes for the Blind Attending Public Elementary Schools At Other Institutions At no School or Institution At no School or Institution	Attending Certified School or Classes for the Deaf Attending Public Elementary Schools At Other Institutions At no School or Institution	Attending Certified School or Classes for the Deaf Attending Public Elementary Schools At Other Institutions At no School or Institution	Attending Certified Schools for Mentally Defective Children Attending Public Elementary Schools At Other Institutions At no School or Institution	Feebleminded	Certified Species Strions other than	Attending Public Elementary Schools
	(i) Suitable for training in a School or Class for the totally blind.	(ii) Suitable for training in a School or Class for the partially blind.	(i) Suitable for training in a School or Class for the totally deaf and dumb.	(ii) Suitable for training in a School or Class for the partially deaf.	Feeble-minded (cases not notifiable to the Local Control Authority).	Notified to the Local Control Authority.	Suffering from severe Epilepsy.	
	BLIND	partially blind).	DEAF (including Deaf and Dumb	and partially deaf).	MENTALLY	DEFECTIVE.	Delective Jahr	EPILEPTICS.

xxii.

18	:::	£ : 4 6 : :	140 87	1 19 1 10	89 11 29
4:	:::	2 : 1 0 : :	.: 82 2 : : :	:0:0	:::400
14 I	:::	1 : 6 9 : :	588	: 4 : :	:::4:5
Attending Public Elementary Schools	At Sanatoria or Sanatorium Schools approved by the Ministry of Health or the Board At Other Institutions	At Sanatoria or Sanatorium Schools approved by the Ministry of Health or the Board At Certified Residential Open Air Schools At Certified Day Open Air Schools At Public Elementary Schools At Other Institutions At no School or Institution	At Certified Residential Open Air Schools At Certified Day Open Air Schools At Public Elementary Schools At Other Institutions	At Sanatoria or Hospital Schools approved by the Ministry of Health or the Board	At Certified Hospital Schools At Certified Residential Cripple Schools At Certified Day Cripple Schools At Public Elementary Schools At Other Institutions At no School or Institution
Epilepsy which is not severe.	Infectious pulmonary and Glandular Tuberculosis.	Non-infectious but active Pulmonary and Glandular Tuberculosis.	Delicate children (e.g., pre or latent tuberculosis, malnutrition, debility, anæmia, etc.).	Active non-pulmonary tuberculosis.	Crippled Children (other than those with active Tuberculous disease), e.g., children suffering from paralysis, etc., and including those with severe heart disease).
srites (cont.).			PHYSICALLY DEFECTIVE.		2780)

B.—Number of individual children found at Routine Medical Inspection to require treatment (excluding Uncleanliness and Dental Diseases).

	Number	Percentage of Children found		
Group	Inspected	Found to require Treatment	to require Treatment	
(1)	(2)	(3)	(4)	
Code Groups :				
Entrants	1566	209	13.3	
Intermediates	1676	421	25.1	
Leavers	1881	405	21.2	
Total (Code Groups)	5123	1035	20.3	
Other Routine Inspections				

TABLE IV.—Return of Defects Treated during the year ended 31st December, 1924.

TREATMENT TABLE.

GROUP I.—Minor Ailments (Excluding Uncleanliness, for which see Group V.).

The second secon	Number of Defects treated, or under Treatment during the year.				
Disease or Defect	Under the Authority's Scheme	Otherwise	Total		
(1)	(2)	(3)	(4)		
Skin— Ringworm, Scalp and Body	157	2	159		
Scabies	11		11		
Impetigo	364	3	367		
Other Skin Disease	33	3	36		
Minor Eye Defects— External and other, but excluding cases falling in Group II.	244	10	254		
Minor Ear Defects	267	29	296		
Miscellaneous, (e.g. Minor Injuries, Bruises, Sores, Chillblains, etc.)	1637	26	1663		
Total	2713	73	2786		

TABLE IV .- Contd.

GROUP II.—Defective Vision and Squint (Excluding Minor Eye Defects Treated as Minor Ailments—Group I.).

	Nu	mber of Defects	s dealt with	(HUSTOL)
Defect or Disease	Under the Authority's Scheme	Submitted to Refraction by Private Practitioner or at Hospital apart from the Author- ity's Scheme	Otherwise	Total
(1)	(2)	(3)	(4)	(5)
Errors of Refraction (including Squint)	818	49	24	891
Other Defect or Disease of the eye (excluding those recorded in		#	20010	
Group I.)				
Total	818	49	24	891

Total number of children for whom spectacles were prescribed

- (a) Under the Authority's Scheme 706
- (b) Otherwise 54

Total number of children who obtained or received spectacles

- (a) Under the Authority's Scheme 415
- (b) Otherwise 54

The number of children who were provided with glasses by the Education Committee was seventeen.

TABLE IV .- Contd.

Group III.—Treatment of Defects of Nose and Throat.

NUMBER OF DEFECTS.

Received	d Operative Treatm	nent.		
Under the Authority's Scheme, in Clinic or Hospital	By Paivate Practitioner or at Hospital, apart from the Authority's Scheme	Total	Received other forms of Treatment	Total Number Treated
. (1)	(2)	(3)	(4)	(5)
284	19	303	67	370

TABLE IV .- Contd.

GROUP IV.—DENTAL DEFECTS.

- (1) Number of Children who were :-
 - (a) Inspected by the Dentist : Aged :

ng.ca.			
Routine Age Groups.	5 6 7 8 9 10 11 12 13 14	306 365 12 19 244 278 140 93 10	Total1467

Specials		1067
	Grand total	2534

		Routine	Special	Total
	(b) Found to require treatment	830	1067	1897
	(c) Actually treated	511	1067	1578
	(d) Re-treated during the year as the result of periodical examination	S0211-	altings 8	100
(2)	Half-days devoted to { Inspectio Treatment	n 16 nt420	} Tota	al436
(3)	Attendances made by children for treatmen	t		3554
(4)	Fillings $\left\{ \begin{array}{ll} \text{Permanent T} \\ \text{Temporary T} \end{array} \right.$	eeth3898 eeth —	} Total	al3898
(5)	Extractions { Permanent T	eeth 449 eeth 572	} Tota	ıl1021
(6)	Administrations of general anæsthetics for	extraction	s	. –
(7)	Other operations { Permanent te Temporary te	eth1000 eth145	} Tota	ıl1145

TABLE IV .- Contd.

GROUP V.—Uncleanliness and Verminous Conditions.

(1)	Average number of visits per school made during the year by the School Nurses	3
(2)	Total number of examinations of children in the schools by School Nurses	21308
(3)	Number of individual children found unclean	3126
(4)	Number of children cleansed under arrangements made by the Local Education Authority	60 approx.
(5)	Number of cases in which legal proceedings were taken: (a) Under the Education Act, 1921 (b) Under School Attendance Bye-laws	a slatege.