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"SALUS POPULI SUPREMA LEX."



REPORT

ON

The Health of Portsmouth For the Year 1920

BY

A. MEARNS FRASER

M.D. (Edin. Univ.) D.P.H. (Camb. Univ.)

Medical Officer of Health, Medical Officer of Health to the Port of Portsmouth, Medical Adviser to the Education Committee.

INCLUDING

The Report of the Medical Superintendent, Milton Hospital, and of the Public Analyst.

> PORTSMOUTH : W. H. BARRELL, LTD., 114 HIGH STREET.











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Health Committee, 1919-20.

7945

THE WORSHIPFUL THE MAYOR-COUNCILLOR JOHN TIMPSON, J.P., K.S.T.

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COUNCILLOR C. P. CHILDE, F.R.C.S.

VICE-CHAIRMAN :

COUNCILLOR H. W. BLACKADAR.

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J. W. PERKINS, J.P.	W. A. BILLING
MRS. S. HOLMES	O. V. COLLIS

OFFICERS OF THE Medical Officer of Health's Dept.

3

Medical Officer of Health : A. MEARNS FRASER, M.D., D.P.H.

Assistant Medical Officer of Health :

D J. WILLIAMSON, M.D., D.P.H. B. C. STEVENS, M.D., F.R.C.S. (Ed.), M.R.C.S., L.R.C.P., D.P.H.

(from July)

Chief Inspector of Nuisances :

F. L. BELL, F.S.I.A Cert. San. Inst.

Chief Clerk and Meteorological Observer: H. G. GRAY.

Inspector of Diseases of Animals Act : G. W. MONKCOM.

Inspector of New Buildings and Inspector of Nuisances : W. H. TURNER, Certs. San. Inst. and Adv. Bdg. Constn.

Inspector under the Sale of Food and Drugs Act and Inspector of Nuisances :

J. S. HOBBS, Cert. San. Inst.

Inspectors of Nuisances :

H. J. LOVELOCK, Cert. San. Inst.

F. R. LOVETT, Cert. San. Inst.

H. HOLMAN, Cert. San. Inst.

C. W. HALL, Cert. San. Inst., Hons. Medallist City & Guilds, R.P.C. Lond., Adv. Bdg. Constn.

E. J. G. SINNETT, Cert. San. Inst.

A. F. PARDO, Cert. San. Inst., R.P.C. Lond., Hons. City & Guilds, Lond.

Health Visitors :

MISS D. POULSON, C.M.B. MISS M. E. HANDLEY, C.M.B. MISS A. KNIGHT, C.M.B. MRS. E. C. CHAMBERS, C.M.B. MRS. M. SMEATON, C.M.B. MISS H. M. STEVENS, C.M.B.

Asst. Clerks : L. C. ROGERS and W. HUTSON.

Port Sanitary Inspector : A. VATES.

Disinfector : S. ROE.

Municipal Cuberculosis Dispensary.

Chief Medical Officer :

D. J. WILLIAMSON, M.D., D.P.H. B. C. STEVENS, M.D., F.R.C.S. (Ed.), M.R.C.S., L.R.C.P., D.P.H. (from July)

Assistant Medical Officer :

A. F. SEACOME, L.R.C.P., L.R.C.S. (Edin)., D.P.H.S. BRYSON, M.B., ch.B. (from April)

Nurses :

MISS N. ALLEN, C.M.B. MISS E. ETHERINGTON, C.M.B. MISS L. LAMB. MISS V. F. WARDLAW.

> Secretary : MISS E. HEALEY, C.M.B.

Almoner : MISS F. K. M. BONE.

Child Welfare Centres.

Medical Officer : MABEL ROSS, M.B., B.Ch., B.A.O., Dublin

Langstone Bospital. Sister-in-Charge .. MISS BOOKER.

Municipal Maternity Bospital.

Medical Officer : MABEL, ROSS, M.B., B.Ch., B.A.O. (Dublin)

Matron : MISS M. F. CRANFIELD, C.M.B.

Infectious Diseases Bospital.

Medical Superintendent : J. McGREGOR, L.R.C.P., L.R.C.S. Matron : MISS F. PETCHEY.

PUBLIC ANALYST: R. P. PAGE; F.I.C.

Medical Officer's Report, 1920.

To the Chairman and Members of the Health and Housing Committee.

GENTLEMEN,

For the twenty-fifth time I have the honour to submit for your consideration my Annual Report on the Health of the Borough of Portsmouth.

I am glad to be able to report that the health of the Borough has been satisfactory, the death-rate of 11.1 is the lowest ever recorded, and places Portsmouth third in the list of great towns. The infantile mortality rate, 60 deaths under one year per 1,000 births, is the lowest ever reached in this or any other of the 20 large towns. The death-rate from tuberculosis is the lowest ever recorded in the Borough, and there was only one death from enteric fever.

Looking back over twenty-five years, one is struck with the great expansion of the Council's activities as a local health authority. To mention but a few of the most notable in which advances have been made, reference may be made to—

- The campaign against Tuberculosis (1911), which engages two medical officers, four nurses, an almoner and secretary, and includes the Tuberculosis Dispensary, Langstone Hospital for Tuberculosis, and Beach Lodge for Children.
- The great work for the preservation of infant life, with one medical officer, 5 health visitors (the first appointed in 1905), voluntary workers, and with 4 Child Welfare Centres (1916), and the Municipal Maternity Hospital (1920).
- The School Medical Service (1908), with 4 medical officers, two dentists, six school nurses, and a well-equipped School Clinic.
- The Venereal Diseases Treatment Centre (1917) at the Royal Hospital, with two medical officers and hospital orderlies and nursing staff, and the institution of an active educational campaign for the prevention of venereal disease.
- The clearance in Portsea (commenced 1909) of over three acres of the worst slum property in the Borough, and its replacement by excellent modern working-class houses.

The provision of new Building Bye-laws (1910); the certification of all new dwelling-houses before occupation (1912); and the provision of a municipal station for the manufacture of electrolytic disinfectant fluid (1914).

The foregoing have all been new departures during the past twenty-five years ; it may also not be without interest to compare the vital statistics of 1896 with those of 1920. Some of the most striking are—

	Ports	mouth
	1896	1920
Population (civil only)	167,876	233,805 = an increase of $38%$
Birth-rate	28.03	25.9 = a decrease of $7.5%$
Death-rate	16.96	11.1 = a decrease of $34.5%$
Infantile Mortality-rate	156.8	60.0 = a decrease of $61.0%$
Tuberculosis Death-rate	1.6	0.8 = a decrease of $50.0%$
Death-rate from Seven Prin-		
cipal Zymotic Diseases	2.27	0.59 = a decrease of 74.0%
Proportion of Deaths of		
Children under 5 years		
of age to total deaths .	38.1	21.6 = a decrease of $79.0%$
Proportion of Deaths over	00.1	$21.0 = a$ decrease of $70.0 \ /_0$
60 years of age to total		
	27.9	40.1 - an increase of 40.0%
deaths	41.9	40.1 = an increase of 40.0%

I think it will be admitted that the improved health conditions indicated by the above figures afford proof that the Town Council has not neglected its responsibilities as the Local Health Authority.

Twenty-five years is a long time for an official to have held the same appointment, and on the completion of this period I should like gratefully to acknowledge the courtesy and consideration I have ever received from members of the Council, and especially to refer to the great advantage that it has been in the performance of my duties to feel that I have enjoyed the confidence both of the Health Committee and of the Council. I earnestly trust that nothing may be wanting on my part to ensure a continuance of these relations in the future. It is also a pleasure to acknowledge the loyal and able support that I have received on all occasions from every member of the staff of the Health Department.

I have the honour to be, Gentlemen,

Your obedient servant,

A. MEARNS FRASER, M.D., Medical Officer of Health.

Civil Population (estimated on National Register to middle of 1920) 233,805

			Ci Popul	19 vil lation ,846)	1920 Civil Population (233,805)			
			Number	Rate per 1000 living	Number	Rate per 1000 living		
BIRTHS			. 5300	22.3	6508	25.9		
DEATHS			. 2888	12.6	2585	11.1		
	Principal Zymotic	Diseases	115	0.51	139	0.59		
,,	Small-pox			—				
,,	Measles		. 14	0.06	32	0.13		
"	Scarlet Fever		. 2	0.00	3	0.01		
	Diphtheria		. 42	0.19	40	0.17		
,,	Whooping Cough		. 20	0.09	41	0.17		
,,	Fever				1	0.00		
,,	Diarrhoea (under 2		37	0.12	22	0.09		
"	Pulmonary Tuber	culosis .	. 147	0.88	197	0.84		
,, ,,	Cancer Violence		. 242 . 91	$ \begin{array}{r} 1.08 \\ 0.40 \end{array} $	293 66	1.25 0.28		
		1000		Mortality ate	-	Mortalit Rate		
"	Under 1 year, per births		. 377	71.1	389	60		
Death ,, ,, ,,	is, 65 years and up Inquest Cases In Public Institu from Uncertified	 itions	897 Perc 172 698 10	entage to ,, ,, ,, ,, ,, ,,	, ,, ,,	ths 34. 6. 27. 0.3		

AVERAGE DEATH-RATE for previous Ten years (1910-1919) .. 13.9

	1919	1920
Mean Temperature	49.8° F.	51.8°F.
Total Rainfall in Inches	29.06	28.04
,, ,, ,, Millimetres	738	701

NATURAL AND SOCIAL CONDITIONS.

As the natural and social conditions of the Borough were fully discussed in last year's Report, they will not be again reported upon in detail this year.

The total population of the Borough at the last census (1911) was 231,141, and the civil population at the middle of 1920 is estimated to be 233,805; owing to the disturbance of population caused by the Great War it is possible that the above estimate is far from correct, and it is not till the census is taken next year (1921) that we shall obtain figures whose accuracy can be relied upon.

A notable event in the municipal government of the Borough was the passing of the "Portsmouth Corporation Act, 1920" which received the Royal Assent on the 4th August. The most important clauses of the Act, which deals with various matters of local government, are those which provide for an extension of the Borough Boundaries. The effect of the Act is to considerably extend the Borough towards the north, and to include within the Borough boundary 1,935 acres of the Parish of Cosham, with a population of about 3,000. This extension was greatly needed to provide for the future development of the Borough, and it includes the area of 520 acres on the southern slope of Portsdown Hill, which the Corporation propose purchasing for a housing scheme. The total area of the Borough is now 8,035 acres.

Vital Statistics.—The total deaths registered during 1920 were 2,585, giving a death-rate of 11.1 per 1,000 living, the lowest ever recorded in the Borough; the death-rate for England and Wales was 12.4. The total number of births was 6,508, giving a birth-rate of 25.9, which is the highest since 1910; the birth-rate of England and Wales was 25.4. As will be seen from the various tables, the vital statistics generally compare favourably with those of the other large towns of the country.

SANITARY CIRCUMSTANCES.

Drainage and Sewerage.—There is nothing to add to previous reports on the Drainage and Sewerage. Practically all houses are connected up to the sewerage system, which, except at periods of exceptionally heavy rainfall, is found satisfactory. **Scavenging.**—The one unsatisfactory feature in connection with scavenging is the lack of the universal provision of suitable galvanised-iron dust-bins with proper covers. Under Section 119 of the Portsmouth Corporation Act, 1920, the Corporation now have power to require the occupiers of dwelling-houses, warehouses, and shops to provide such receptacles, and doubtless these powers, if exercised, will have a beneficial effect on the health of the population and on the cleanly condition of the streets.

Sanitary Inspection.—A classified statement of the number of sanitary inspections, premises visited, nuisances discovered and action taken will be found in the Report of the Chief Sanitary Inspector, on page 81. Here also will be found particulars as to the enforcement of bye-laws and regulations in regard to common lodging houses, offensive trade, and other sanitary conditions.

Schools—The sanitary condition of the Public Elementary Schools is satisfactory, and the usual procedure, which has been before described, was adopted for the prevention of the spread of infectious diseases amongst the scholars.

Municipal Disinfectant.—At the Municipal Disinfectant Station in Park Road there were manufactured and distributed to the public 10,520 gallons of electrolysed sea-water disinfectant. The disinfectant was supplied for use at the Mortuary, Public Swimming Baths, Public Elementary Schools and other institutions to the extent of 4,940 gallons.

FOOD.

(a) Milk Supply.—Full particulars in regard to the results of the analysis of samples of milk collected in the Borough will be found in the Borough Analyst's Report. The great need, in order to secure a pure milk supply, is of far more effective supervision on the farms where the cows are milked. Nearly the whole of the milk consumed in Portsmouth is produced at farms outside the jurisdiction of the local sanitary authority ; the latter can therefore exercise no control in securing that it is produced under cleanly conditions. There are seven cowkeepers in the Borough, two of whom reside in the newly added area of Cosham ; altogether there are 182 dairies, cowsheds and milkshops. The following Table gives particulars of the administration of the Cream and Milk Regulations, 1912 and 1917 :---

1. MILK AND CREAM NOT SOLD AS PRESERVED CREAM :

	No. of Samples examined for the presence of a Preservative	No. in which Preservative was reported to be pro Percentage of Preservative found in each Sar	
MILK	672	2	
		One sample contained Boric Acid 0.11 per cent. sent in by a " Private Purchaser ").	
		One sample contained Formalin, and was sent in un from a local Hospital.	officially
CREAM	15	11	
		Contained Boron Preservative as follows :	
		No. 505 0.2 % Boric Acid, Test Sampl	e.
		No. 506 0.15% do. do.	
		No. 531 . 0.16% do. do.	
		No. 537 0.1 % do. Vendor fin	
		- No. 538 0.17% do. Vendor cat (first of	
		No. 539 0.17% do. Vendor fine	
		No. 649 0.2 % de. Test Sampl	le.
		No. 652 0.17% do. do.	
		No. 663 0.12% do. (Vendor's es	
		No. 725 0.13% do. tion acc subseque caution	
		No. 856 Sample submitted by a	Private
		Purchaser, Insufficie	
		for estimation of Bo	
(a) Instand	the label as to pres	have been submitted for analysis, to ascertain if the st servatives were correct :	tatements
	(i) Correct sta		
	(ii) Statements		
	And the second second	— Total 2	
		of Preservative found Percentage stated on	
		h sample. Statutory Label.	
		0.13% Boric Acid. " Not exceeding 0.4%	
		0.31% do. Borie Acid."	
(b) Determ	inations made of M	ilk-fat in Cream sold as Preserved Cream :	
	(i) Above 35%		
	(<i>ii</i>) Below 35%		
		- 1000 2	

(c) Instances where (apart from analysis) the requirements as to labelling or declaration of preserved cream in Article V. (1) and the proviso in Article V. (2) of the Regulations have not been observed—

None.

(d) Particulars of each case in which the Regulations have not been complied with, and action taken—

None.

3. THICKENING SUBSTANCES :

No evidence of their addition to Cream or Preserved Cream.

MILK (MOTHERS AND CHILDREN) ORDER, 1919.—Dried milk preparations have been issued by the Local Authority in connection with the Child Welfare Centres, and further particulars are given on page 45.

REPORT OF THE MEDICAL OFFICER OF HEALTH

(b) Meat.—The routine examination of meat exposed for sale and in the slaughter-houses during preparation for sale has been carried out as usual. A large amount of meat, a list of which appears in the Chief Inspector's Report, has been destroyed as unfit for food, but only one carcase of beef was destroyed because of general tuberculosis. The slaughterhouses generally have been well kept ; 4,173 visits of inspection have been made, 4 notices to enforce cleanliness, and 3 for breaches of bye-laws have been issued.

The number of private slaughter-houses in the Borough is as follows :—

Registered Slaughter-houses Licensed Slaughter-houses	 In 1914 4 72	In June 1920 4 64	In Dec. 1920 4 64
			—
	76	68	68

Powers have been taken under the "Portsmouth Corporation Act, 1920" to secure that when a public abattoir has been provided by the Corporation, no slaughtering shall take place in the Borough except at the abattoir. Under present financial conditions the provision of a public abattoir is hardly a matter of practical politics, but when the question comes to be considered in the future, the powers to close private slaughter-houses will be found of supreme importance, and, indeed, are essential for success.

(c) **Other Foods.**—Supervision generally is exercised over all kinds of foods exposed for sale, and an idea can be formed of the great variety of articles dealt with by reference the Chief Inspector's Report. 1,162 visits of inspection to bakehouses have been made, and five notices served to enforce cleanliness, the bakehouses have for the most part been found to be kept in a satisfactory manner. Particulars of the work done in connection with the Sale of Food and Drugs Acts will be found in the Reports of the Public Analyst and Chief Sanitary Inspector. REPORT OF THE MEDICAL OFFICER OF HEALTH

NOTE.—All death-rates given in this Report have been calculated on the assumption that the population is 233,805, which is the estimate of the civil population officially issued by the Registrar General. If an actual enumeration of the pouplation were possible, I think it probable that the above figure would be found too low.

TABLE I.

Table showing the Population, Marriages, Inhabited Houses, Births and Deaths, for the year 1920, and the ten preceding years.

		No. of		Domintored	Total 1	Number of	Deaths
Year	*Estimated Population	I habited Houses	Marriages	Registered Births	Total, all ages	Under 1 year	Under 5 years
1920	†233,805	50,797	2,269	6,508	2,585	389	560
1919	†224,846	49,925	2,621	5,300	2,888	377	545
1918	† 230 , 396	49,895	2,222	4,778	3,450	356	669
1917	+198,527	49,663	1,893	4,584	2,884	324	581
1916	†197,843	49,348	2,248	5,186	2,875	417	632
1915	†202,441	49,071	2,978	4,975	3,284	433	813
1914	245,827	48,616	2,105	5,714	3,149	485	715
1913	241,256	48,280	2,025	5,989	3,044	462	786
1912	236,732	47,673	2,083	5,605	• 3,255	730	1013
1911	232,221	47,033	2,055	5,787	2,995	603	890
1910	227,821	46,457	1,917	5,801	3,045	556	862
Average 10 years 1910-19	223,790	48,596	2,214	5,371	3,086	474	750

GROSS NUMBERS.

*Revised in accordance with Census Returns, 1911. † Civil population only.

Extracts from the Census, 1911.

1.—Population, 1911 : (Males) Females	$115,160 \\ 115,981$	}	231,141
2.—Area in Acres (land and inland water)			6,100
3.—Average number of Persons in each house			. 4.9
4.—Average number of Persons per Acre			38

TABLE II.

.

Showing Births and Deaths during the four quarters ending 1st January, 1921.

		Uncertified Causes of Deaths		7	ŝ	:	:	-	10
		Deaths in Public Institutions		199	172	145	182		698
	s	əseO İsəupul		56	40	27	49		172
		sonsloiV		21	11	10	24		66
		ranitanza		24	18	64	16		60
		Diarrhoea under 2 yrs.		19	4	6	0		22
The Deaths registered include		Pever		:	:	1	:		1
ristered	from	Whooping AguoD		30	6	63	:		41
aths reg	Deaths from	Diph- theria		12	11	9	11		40
The De	D	Scarlet- fever		:	:	:	8		ŝ
		Measles		23	6	:	:		32
		xoq-llsm2		:	:	:	:		:
		Total Zymotic Diseases		69	33	18	19		139
	Deaths of	upwards 65 years and Persons aged		284	209	149	255		897
	Deat	Infants under 1 year of age		160	11	66	86		389
		Death Rate		15.3	10.8	8.2	11.8		11 - 11
-		Birth Deaths Death Rate		859	606	458	662		2585
-		Birth Rate		32.5	28.0	25.9	25.0		25.9
		Births		1930		1511	1462		6508
	Quarter B				2nd		4th "		TOTAL

REPORT OF THE MEDICAL OFFICER OF HEALTH

TABLE III.

Table showing the Annual Birth-rate, Rate of Mortality, and Death-rates among children for the year 1920, and ten preceding years.

Year	Birth-rate per 1000 of the Population	Annual Rate of Mortality living from all causes	Annual Rate of Mortality per 1000 living from 7 Principal Zymotic Diseases	Deaths of Children under 1 year : Percentage to total Deaths	of Children under I year	Deaths of Children under 5 years : Percentage to total Deaths		
†1920	25.9	11.1	0.59	15.0	60	21.6		
†1919	22.30	12.60	0.51	13.0	71	19.0		
†1918	20.96	16.96	0.94	10.3	74	19.4		
†1917	20.71	$14 \cdot 52$	0.90	11.2	70	$20 \cdot 1$		
†1916	24.09	14.53	0.96	14.5	80	21.9		
†1915	24 · 47	16.22	1.55	13.1	87	24.5		
1914	23.31	12.45	1.11	15.9	84	28.1		
1913	24 · 44	12.23	1.15	18.0	90	25.7		
1912	23.75	12.85	1.60	15.1	82	25.8		
1911	24.99	$14 \cdot 06$	2.01	22.4	126	31 · 1		
1910	25.41	13.14	1.29	20.2	104	29.6		
Average of 10 years, 1910-19	23.43	13.95	1.20	15.3	86	24.5		

† Civil population only.

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Showing the Population, Birth-rates, Death-rates, Zymotic Death-rates, and Deaths under 1 year to 1000 Births, in the 20 Large Towns for the year 1920.

	Dootlos of	Children under 1 year of age of	1,000 Births 12	82	62	60	87	69	75	83	72	97	98	95	94	92	104	98	86	76	96	105	111	
		Totals of Cols.	4 to 10 11	0.83	0.53	0.59	0.89	0.70	0.89	0.95	0.92	0.88	16.0	1.14	0.82	0.41	0.89	1.10	0.78	0.71	0.79	1.00	1.60	
		Diarrhoea &Enteritis	under 2 ys. 10	0.18	0.21	0.09	0.27	0.16	0.25	0.26	0.30	0.36	0.36	0.28	0.29	0.13	0.45	19.0	0.22	$0 \cdot 14$	0.32	0.29	0.53	
	H-RATES	Enteric Fever	6	0.02	0.02	0.00	10.0	10.0	0.01	0.00	10.0	0.05	0.00	0.00	10.0	0.01	:	0.02	0.03	0.02	0.00	0.00	00.0	
	ZYMOTIC DEATH-RATES	Whoop- ing	Cough 8	0.10	0.01	0.17	60.0	0.04	0.16	0.20	0.20	0.12	0.02	60.0	0.10	0.08	0.12	0.03	0.17	0.17	0.16	0.21	0.28	-
	ZYMOTIC	Diph- theria	2	0.11	0.13	0.17	0.15	0.20	0.22	0.23	0.25	0.14	0.08	0.33	0.08	60.0	0.05	60.0	0.17	0.19	0.07	0.13	0.22	
and a		Scarlet Fever	9	0.08	0.03	0.01	0.00	0.02	0.04	0.10	0.02	0.06	0.15	0.03	0.05	0.04	10.0	0.02	10.0	0.00	0.06	0.03	0.08	
		Measles	2	0.29	$0 \cdot 12$	0.13	0.35	0.26	0.22	0.15	0.13	0.12	0.28	0.38	0.26	0.03	0.23	0.27	0.14	0.17	0.15	0.31	0-47	
		Small- pox	4	:	:	:	:	:	0.00	:	10.0	:	:	:	:	:	:	:	0.00	:	:	:	0.00	
	Per 1,000 living	Death Rate	8	10-7	10.8	1.11	11.5	11.7	12.4	12.6	12.7	12.7	12.7	12.9	13.0	13.1	13.2	13.2	13.6	13.8	13.8	14.3	15.7	_
	Per 1,00	Birth Rate	61	24.7	23.0	25.9	24.0	25.7	26.5	28.0	33.0	26.8	31.1	25.9	25.5	20.7	26.6	29.2	22.7	26.3	29.4	25.6	31.2	
		Population estimated to the middle of 1920.	1	212,582	191,580	233,805	245,465	375,641	4,531,971	895,915	299,440	235,239	248,852	267,836	770,597	293,979	492,570	290,808	184,533	189,218	286,061	449,212	803,452	
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REPORT OF THE MEDICAL OFFICER OF HEAL/TH

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TABLE V.

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TABLE V.-Continued

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	CAUSE OF DEATH	CLASS III Diseases of the Circulatory Sector	Pericarditis	Atheroma, Aneurysm Atheroma, Aneurysm Embolism and Thrombosis Diseases of the Veins Discases of Lymphatic System CLASS IV	Diseases of the Respiratory System. Diseases of the Larynx Diseases of the Thyroid Body Bronchitis	

18

REPORT OF THE MEDICAL OFFICER OF HEALTH

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		CAUSE OF DEATH	CLASS VII. The Puerperal State.	Accidents of Pregnancy Puerperal Haemorrhage Other Accidents of Childbirth Puerperal Fever	Convulsions	CLASS VIII. Diseases of the Skin and Cellular Tissue Gangrene Carbuncle Phlegmon : Acute Abscess	Diseases of the Integumentary System	Diseases of the Bones and of the Organs of Locomotion. Diseases of the Bones CLASS X. Malformations.	Congenital Malformations

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CLASS XI. Diseases of Early Infancy.			ementia,	CLASS XIII. Affections produced by External Causes.	:	::	:		::			rcing	Outer Means	ence		CLASS XIV. Ill-defined Causes	

SUMMARY	OF	TABLE	v.
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Class	DISEASES		Number of Deaths
I.	General Diseases		808
II.	Diseases of the Nervous System and of the Organs of Special Sense	5	244
III.	Diseases of the Circulatory System		418
IV.	Diseases of the Respiratory System		397
v.	Diseases of the Digestive System		110
VI.	Non-venereal Diseases of the Genito-urinary Syste and Annexa	m 	93
VII.	The Puerperal State		16
VIII.	Diseases of the Skin and Cellular Tissue		9
IX.	Diseases of the Bones and of the Organs of Locomotion		1
Х.	Malformations		16
XI.	Diseases of Early Infancy		145
XII.	Old Age		260
XIII.	Affections produced by external causes		66
XIV.	Ill-defined Causes		2

TABLE VI.

Table showing the Numbers and Death-rates per 1,000 of Population from the Seven Principal Zymotic Diseases, from Lung Diseases (excluding Phthisis), from Phthisis, and from all causes, during each Quarter and for the whole year 1920. (Civil population only.)

Quarter ending		Prin Zyn Dise	Seven acipal notic ases* ages	Dise (exc	ung eases epting nisis†)	Pht	hisis		m all uses
guarter choing		No.	Rate per 1000	No.	Rate per 1000	No.	Rate per 1000	No.	Rate per 1000
1920	-								
April 3rd		69	1 · 17	201	3.43	47	0.80	859	15.3
July 3rd		33	0.56	67	1 · 14	56	0.95	606	10.8
October 2nd		18	0.30	34	0.58	40	0.68	458	8.2
January 1st, 1921		19	0.32	98	1.67	54	0.92	662	11.8
Totals		139	0.59	400	1.70	197	0.84	2585	11 · 1

* Includes Small-pox, Measles, Scarlet Fever, Whooping Cough, Diphtheria, Enteric or Typhoid Fever, and Diarrhoea.

† Includes Laryngitis, Emphysema, Asthma, Bronchitis, Pneumonia, Pleurisy, and other Diseases of the Respiratory System.

PREVALENCE AND CONTROL OVER INFECTIOUS DISEASES.

There is nothing of outstanding importance to comment upon in regard to Infectious Diseases in the Borough during the year. There were 445 cases of Scarlet Fever, with three deaths, and 382 of the cases (or 85 per cent.) were removed to the Milton Hospital.

DIPHTHERIA still remains unusually prevalent in this town, and with it is associated a large number of cases with septic conditions of the throat. Altogether 684 cases of diphtheria were notified, of which 598 (or 87 per cent.) were treated at the Milton Hospital. Diphtheria proved fatal in 40 (or 5.84 per cent.) of the cases. The death-rate from diphtheria is far higher than it ought to be, in view of the fact that diphtheria antitoxin is an almost certain remedy if injected in the first or second day of the disease. It often happens, however, that a medical man is not called in until the patient has been ill for several days, by which time it is too late to secure the best results from antitoxin treatment. Diphtheria antitoxin can be obtained by any medical practitioner from the Health Department, and after office hours from any of the Borough Police Stations. Bacteriological examination of throat swabs is provided for medical men, and during the year I made 1,102 such examinations.

The deaths from INFLUENZA numbered 60, as against 278 during the previous year, and 595 in 1918. During the early part of the year a supply of anti-influenza vaccine was received from the Ministry of Health, and all medical practitioners in the Borough were notified that this could be supplied to them free of cost for use in their practices. Very few applications were made for the vaccine, and no deductions of any value can be drawn in this town as to the efficacy of this vaccine as a prophylactic.

MEASLES and WHOOPING COUGH were responsible respectively for 32 and 41 deaths. In February a letter was sent to the local press warning parents against taking children suffering from whooping cough to theatres, cinemas, or other places of amusement.

No cases of SMALI,-POX were notified in the Borough, but at the beginning of February a case occurred at the Alexandra Military Hospital, Cosham. This case had had its origin in an unsuspected fatal case in London. The usual vaccination returns are given in Tables VIII. and IX. To such

REPORT OF THE MEDICAL OFFICER OF HEALTH

people as have a knowledge of what an epidemic of small-pox involves, it is rather disquieting to see that the number of children who escape vaccination because of the conscientious objections of their parents now reaches about 1,000 a year.

Two cases of ANTHRAX were notified in January, one in a naval man and the other in a worker in the Dockyard. Both cases were attributed to infection by Japanese shaving brushes. The Chief Inspector visited all shops in the town where shaving brushes were on sale, and warned the retailers as to the danger of selling Japanese shaving brushes, and arranged with them for the return of such brushes to the wholesalers for destruction or disinfection. By order of the Health Committee a public notice of warning on the subject was issued in the local press. As cases had also occurred elsewhere in the country, on February 9th the importation of Japanese shaving brushes was prohibited by an Order in Council.

In December a fatal case of TETANUS occurred in a baby. In this case the disease was shown to have been conveyed through the agency of some vaseline which had been applied to the umbilical cord at birth. The facts were communicated to the Ministry of Health, and the investigations at the Ministry's laboratory showed that the surface of the vaseline in certain pots had been contaminated by the bacillus of tetanus, which was found in some grey paper washers inserted between the vaseline and the lid of the pots. The manufacturers were communicated with by the Ministry of Health, with a view to adequate precautions being taken to prevent the occurrence of such a thing in future.

During the year four deaths were registered from ENCE-PHALITIS LETHARGICA and two from CEREBRO-SPINAL MENING-ITIS.

TABLE VII.

Showing the number of Deaths in the Years 1861 to 1920, from the Seven Principal Zymotic Diseases.

	1			I	ISEASE	s			T	otals
Year	Popula- tion	Small pox	Measles	Scarlet Fever	Diph- theria	Whoop'g Cough	Fever	Diarr- hoea	Num- bers	Rate per 1000 living
1861	95220	1	3	5	6	11	111	152	292	3.06
1862	96960		42	225	20	36	128	71	523	5.39
1863	98731	12	80	134	24	16	37	68	391	3.96
1864	100531	228	6	17	17	48	72	118	498	4.95
1865	102363	3	14 16	20	7	50	74	122	317 330	3.09 3.16
1866 1867	104230 106130	1	82	34 15	26 4	46 23	85 74	117 140	338	3.18
1868	108064		46	107	18	57	119	117	526	4.86
1869	110034	1	57	295	18	26	105	100	602	5.47
1870	112040	1	39	119	13	46	91	121	430	3-83
1871	114083	39	42	30	10	66	72	100	366	3.28
1872	114970	514	52	5	21	17	112	113	834	7.25
1873	116380	45	16	12	15	19	97	106	310	2.66 3.99
1874	117810 119260	2	56 54	36 47	19 18	104 8	101 103	149 141	470 371	3.95
1875 1876	120730	1	109	457 *	11	42	71	131	822	6.80
1877	122210		105	36	5	59	87	153	322	2.63
1878	123710		36	16	1	92	96	170	411	3.32
1879	125250		10	11	4	9	62	73	169	1.35
1880	126830		42	. 9	20	48	70	192	381	3.00
1881	128691		7	25	205	66	60	73	436	3.38
1882	131535		156	40	106	36	107	111	556	4.22
1883	134441	1	10	16	20	54	93	80	274	2.03
1884	137412		164	9	41	9	58	116	397	2.88 2.23
1885	140448		7 197	5 18	42 65	44 102	93	123 191	314 698	4.86
1886 1887	143552 146724	1 3	197	26	47	41	124 53	151	329	2.34
1888	149966		50	12	17	27	27	98	230	1.53
1889	153279	2	8	11	33	92	32	122	300	1.95
1890	156667		4	19	47	39	50	105	265	1.69
1891	160128		223	9	23	38	33	73	399	2.49
1892	163667		38	18	26	87	42	99	310	1.89
1893	165153		120	32	29	36	54	247	518	3.13
1894	167878	4	139	14	34	41	29	93	534	3.18
1895	170672		39	7	18	64	37	238	403	$2 \cdot 36 \\ 2 \cdot 36$
1896	173565		126	19	20	60	28	157 286	410 463	2.36
1897	176497 179500		35 73	11 31	22 54	65 42	44 44	183	403	2.38
1898 1899	182576		50	22	120	62	75	316	645	3.53
1900	185725		3	11	104	87	93	159	457	2.46
1901	188885		82	15	70	21	43	311	542	2.87
1902	193969		70	14	62	92	54	159	451	2.32
1903	198049		17	27	75	34 .	23	115	291	1.46
1904	202171		1	22	71	76	34	213	417	2.06
1905	206336	1	218	11	69	45	18	173	534	$2.58 \\ 1.79$
1906	210546		8	3	60	63	17	226	377 381	1.79
1907	214797		169 14	4	61 49	57 55	30 26	60 48	200	0.91
1908 1909	219095 223436		104	19	66	27	33	54	303	1.35
1909	227821		64	30	56	52	39	54	295	1.29
1911	232221		28	21	72	40	26	290	477	2.05
1912	236732		95	29	124	52	22	57	379	1.60
1913	241256		25	20	87	16	23	112	283	1.17
1914	245827		39	5	79	50	29	71	273	1.11
1915	*202141		123	17	68	36	18	52	314	1.55
1916	*197843		15	3	52	46	10	65	191	0.96
1917	*198527		44	7	40	- 36	4 5	48	179	0.90
1918	*203396		52	4	48	43	5	40 37	192 115	0.94 0.51
1919	*224846		14 32	23	42 40	20 41	1	22	139	0.59
1920	*233805	1	1 02	0	10	41	-	AL.		

* Civil population only.

TABLE VIII.

VACCINATION RETURNS FOR PAST EIGHTEEN YEARS.

											_								
No. in respect of which certificates of conscientious objections have been received	31	50	45	44	67	149	266	346	562	713	800	978	850	769	848	810	859	954	674
No. of these births remain- ing	:	:	1	:	61	61	:	61	s,	9	3	12	6	11	6	9	20	4	19
Removed to places unknown	19	24	17	26	28	25	24	26	21	42	34	27	31	18	29	37	30	38	19
Removed to Districts the Vacc. Officer of which has been apprised	29	35	23	35	47	63	43	33	50	43	57	48	74	50	56	54	118	76	53
Postpone- ment by Medical Certificate	26	23	28	25	43	40	37	40	.40	11	33	44	59	47	39	32	38	26	38
Dead Unvacc- inated	547	471	556	477	552	495	473	430	449	510	389	409	409	288	321	256	263	302	170
Had Small- pox	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Insus- ceptible to vaccin- ation	31	12	23	15	35	20	35	46	15	57	26	35	42	29	31	13	38	13	16
Successfully Vaccinated	4509	4831	4916	5015	5117	5069	5120	4938	4667	4376	4314	4321	4235	3785	3875	3405	3459	3752	2573
No. of Births returned in birth sheets so registered from 1st Jan. to 31st Dec.	5192	5446	5609	5637	1685	5863	5998	5861	5809	5788	5658	5874	5749	4997	5208	4613	4810	5195	3562
Year	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920 (to June)

TABLE IX.

VACCINATION RETURNS-1st January to 30th June, 1920.

Number of these Births remaining on 31st January, 1921, neither	duly entered in the Vaccination Register columns 9, 4, 5, 6 & 7	of this Return) nor temporarily accounted for in the Report Book (columns 8, 9 and 10 of this Return)	II	0	4	9	4	19	ve.	:	1	1	12	4
		which cannot for which cannot for be reached; for and cases not having been found	IO	cn	2	7	2	19	31st, 1919, inclusive	8	6	10	11	38
Number of these Births which on sist January, 1921, remained unentered in the Vaccination Register on account (as shown by Report Book) of	Removal to	Vaccination Vaccination which has been duly apprised	6	12	7	17	17	53	o Dec. 31st,	11	15	23	27	76
Number of t January, 192 the Vaccina (as show		Postpone- ment by Medical Certificate	00	8	7	10	13	38	District from Jan. 1st to Dec.	8	3	cı	13	26
Jan., 1921 tion	- 120	COL. 5 Dead Unvac- cinated	2	43	39	56	32	170	trict from	96	60	88	58	302
Number of these Births duly entered by 31st Jan., 1921 in Columns 1, 2,4 and 5, of the Vaccination Register Birth List Sheets, viz. :	Col. 4 Number in	whomCertifi- cates of Con- scientious Objection have been received	9	254	151	137	132	674	in this Dis	382	253	163	186	984
ths duly er , 4 and 5, o Birth List	6	Had Small- Pox	5	:	:	:	:	:	gistered	:	:	:	:	:
f these Bir olumns 1, 2 Register	Col. 2	Insuscep- tible of Vaccin- ation	4	4	9	4	67	16	were re	2	4	:	4	13
Number of in Co	. 13	4 1	6	744	490	719	620	2573	e Births	1159	767	960	866	3752
Number of Births returned	in the Birth List Sheets as	registered from 1st January to 3oth June, 1920	2	1073	706	956	827	3562	REN whos	1669	1112	1247	1167	5195
	Registration Sub-Districts	District		North End and Buckland	. Kingston and East Southsea	3. Portsea and Landport	4. Portsmouth and Mid-Southsea	Totals	VACCINATION OF CHILDREN whose Births were registered in this	1. North End and Buckland	2. Kingston and East Southsea		4. Portsmouth and Mid-Southsea	Totals

REPORT OF THE MEDICAL OFFICER OF HEALTH

SCARLET FEVER.—445 cases of scarlet fever were notified during the year, and of these 3 proved fatal ; 382 of the cases (or 85 per cent.) were isolated in the Milton Infectious Diseases Hospital.

TABLE X.

Showing the number of cases of SCARLET FEVER notified, the number of Deaths, and the percentage of Deaths to cases notified for the years 1884 to 1920.

Year	Cases notified	Attack-rate per 100,000 population	No. of Deaths	Percentage of Deaths to cases notified
1884		194	9	3.38
1885	314	224	5	1.59
1886		239	18	5.24
1887	647	441	26	$4 \cdot 02$
1888	465	310	12	2.58
1889	728 -	475	11	1.51
1890	573	366	19	3.31
1891	326	203	9	2.76
1892	1023	630	18	1.76
1893		712	32	2.73
1894	458	273	14	3.06
1895	311	182	7	2.25
1896	524	302	19	3.62
1897	699	396	11	1.57
1898	710	395	31	4.65
1899		316	22	3.80
1900		187	11	3.16
1901	452	239	15	3.31
1902	603	310	14	2.32
1903		589	27	2.31
1904	726	358	22	3.03
1905	530	256	11	2.07
1906		181	3	0.80
1907	- 282	130	4	1.42
1908	597	272	8	1.34
1909		521	19	1.62
1910	1276	560	30	2.35
1911	855	368	28	3.27
1912	1407	594	29	2.06
1913	1166	483	20	1.71
1914	703	281	5	0.71
1915	885	*437	17	1.92
1916	428	*215	3	0.70
1917	496	*249	7	1.56
1918	359	*176	4	1.11
1919	274	*121	2	0.73
1920	445	*189	3	0.67
fotal (37 years)	23,688	Mean 273	545	Mean 2.30

* Calculated on estimated civil population.

TABLE XI.

Table showing the number of cases of SCARLET FEVER admitted to the MILTON HOSPITAL, the number of Deaths, and the percentage of Deaths to number of cases of Scarlet Fever admitted for the years 1884 to 1920.

Yea	r	Cases Admitted	No of Deaths	Percentage of Deaths to cases treated
1884		 13		
1885		 16		
1886		 29		
1887		 56	1	1.78
1888		 120	1	0.88
1889		 278	1	0.36
1890		 384	11	2.86
1891		 180	3	1.66
1892		 532	6	1.12
1893		 503	6	1.19
1894		 238	8	3.36
1895		 177	2	1.13
1896		 354	11	3.12
1897		 413	9	2.17
1898		 436	23	5.27
1899		 333	6	1.80
1900		 198	6	3.03
1901		 270	6	2.20
1902		 339	6	1.77
1903		 572	5	0.87
1904		 340	8	2.38
1905		 274	4	1.44
1906		 243	2	0.82
1907		 202	5	2.48
1908		 343	4	1.17
1909		 631	14	2.20
1910		 850	16	1.88
1911		 635	18	2.83
1912		 702	19	2.70
1913		 730	14	1.91
1914		469	4	.85
1915		630	14	2.22
1916		 340	2	0.58
1917	• •	 383	5	1.30
1918		 277	3	1.08
1918		 250		
1919		 382	3	
(Total 37 y	ears)	 13,122	246	Mean 1.88

DIPHTHERIA.—684 cases of Diphtheria were notified during the year, and of these 40 proved fatal ; 598 cases were treated at the Milton Hospital, amongst these the deathrate was 0.6 per cent.

TABLE XII.

Table showing the number of cases of DIPHTHERIA notified, the number of Deaths, and the percentage of Deaths to cases notified, for the years 1884 to 1920.

Year	Cases notified	Attack-rate per 100,000 population	No. of Deaths	Percentage of Deaths to cases notified
1884	174	127	41	23.44
1885	173	123	42	24.25
1886	232	161	65	26.72
1887	260	175	47	19.08
1888	128	86	17	13.28
1889		82	33	26.19
1890		135	47	22.69
1891	140	87	23	16.42
1892		74	26	21.48
1893		84	29	21.48
1894		82	34	24.46
1895	124	72	18	14.51
1896	124	71	20	16.12
1897		83	22	15.07
1898		157	54	19.08
1899	566	310	120	21.20
1900	. 568	305	104	18.30
1901		240	70	15.41
1902	495	255	62	12.52
1903	633	319	75	11.84
1904		297	71	11.81
1905		221	69	15.10
1906		204	60	13.95
1907	. 423	196	61	14.89
1908	. 434	198	49	11.28
1909	. 494	221	66	13.36
1910		206	56	11.90
1911		238	72	13.00
1912	1,051	444	124	11.80
1913	. 959	397	87	9.07
1914		312	79	12.99
1915	. 923	455*	68	7.36
1916		348*	52	7.54
1917		187*	40	11.94
1918		261*	48	9.03
1919		238*	42	7.83
1920	. 684	291*	40	5.84
Total (37 years)	15,615	Mean 187	2033	Mean 13-01

* Calculated on estimated civil population.

TABLE XIII.

Table showing the number of cases of DIPHTHERIA admitted to the MILTON HOSPITAL, the number of Deaths, and the percentage of Deaths to cases of Diphtheria admitted, for the years 1884 to 1920

. 7	7ear	Cases Admitted	No. of Deaths	Percentage of Deaths to cases treated
1884		 4	1	25.00
1885		 6		
1886		 11	1	9.09
1887		 27	8	29.60
1888		 23		
1889		 18		
1890		 69	18	26.10
1891		 52	4	7.70
1892		 27	6	22.22
1893		 12	4	33-33
1894		 38	8	21.05
1895		 46	5	10.87
1896		 38	4	10.52
1897		 37	3	8.11
1898		 118	19	16.10
1899		 225	27	11.90
1900		 211	28	13.27
1901		 170	24	14.11
1902		 197	23	11.67
1903		 211	14	6.63
1904		 220	23	10.45
1905		 198	24	12.12
1906		 239	35	14.64
1907		235	28 .	11.91
1908		 284	23	8.10
1909		 354	40	11.30
1910		336	45	13.40
1911		 436	51	11.69
1912		 782	86	10.99
1913	• •	 652	58	8.89
1914		 615	56	9.15
1915		 684	45	6.57
1916		 589	43	7.13
1910		 340	34	10.00
1917		 483	38	7.86
1918	•••	 520	37	7.11
1919		 598	36	6.02
Total (37	vears)	 9,105	898	Mean 9.82

32

ENTERIC FEVER.—Only 27 cases were notified suffering from Enteric Fever during the year, and only one death occurred from this disease.

TABLE XIV.

Table showing the number of cases of ENTERIC or TYPHOID FEVER notified, the number of Deaths, and the percentage of Deaths to cases notified, for the years 1884 to 1920.

Year		Cases notified	Attack-rate per 100,000 population	No. of Deaths	Percentage of Deaths to cases notified
1884		539	392	58	10.76
1885		762	542	93	11.48
1886		1249	870	124	9.90
1887		554	378	53	9.52
1888		313	208	27	8.60
1889		317	207	32	10.01
1890		457	292	50	10.94
1891		265	165	33*	12.40
1892		330	203	38	11.51
1893		361	218	54	14.96
1894		201	119	25	12.44
1895		258	151	33	12.74
1896		235	135	27	11.49
1897		320	181	42	13.08
1898		305	170	43	14.10
1899		531	290	75	14.12
1900		1083	583	92	8.49
1901		324	171	43	13.27
1902		448	230	54	12.05
1903		216	109	23	10.65
1904		223	110	33	14.80
1905		165	79	18	10.91
1906		146	69	17	11.64
1907		233	108	30	13.73
1908		207	94	26	12.07
1909		274	122	33	12.04
1910		215	110	39	15.14
1911		159	68	28	17.61
1912		140	59	22	15.71
1913		· 126	52	23	18.25
1914		189	76	29	15.34
1915		97	47*	18	18.55
1916		78	39*	10	12.82
1917		30	15*	4	13.33
1918		32	15*	5	15.62
1919		21	9*		
1920		27	11*	1	3.70
fotal (37 ye	ars)	11,466	Mean 132	1,355	Mean 11.81

* Calculated on estimated civil population.

33

TABLE XV.

Table showing the number of cases of ENTERIC FEVER admitted to the MILTON HOSPITAL, the number of Deaths, and the percentage of Deaths to cases of Enteric Fever admitted, for the years 1884 to 1920.

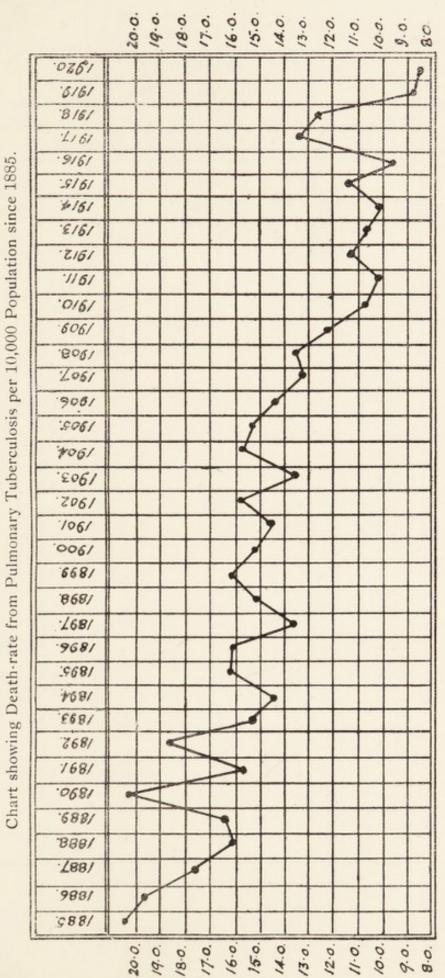
Year		Cases Admitted	No. of Deaths	Percentage of Deaths to cases treated
1884		 2		
1885		 6		
1886		 66	4	6.06
1887	*	 . 37	1	2.70
1888		 35		
1889		 48	6	12.50
1890		 114	5	4.38
1891		 51	4	7.84
1892		 81	6	7.41
1893		 94	3	3.19
1894		 53	3	5.66
1895		 83	4	4.82
1896		 76	6	7.90
1897		 102	11	10.78
1898		 92	14	15.22
1899		 96	12	12.50
1900		 157	18	11.46
1901		 101	11	10.89
1902		 105	- 13	12.38
1903		 70	3	4.28
1904		 73	9	12.33
1904		 73	9	12.33
1905		 57	7	12.28
1906		 72	7	9.72
1907		 109	14	12.84
1908		 102	15	14.70
1909		 96	14	14.58
1910		 114	13	11.40
1911		 70	10 .	14.28
1912		 71	9	12.67
1913		 55	10	18.18
1914		 110	17	15.45
1915		 33	8	24.24
1916		 47	7	14.89
1917		 21	1	4.76
1918		 15	2	13.33
1920		 12		
Total (37 ye	arel	 2 536	267	Mean 10.52

TUBERCULOSIS .- The total number of deaths from pulmonary tuberculosis registered in the Borough during the year was 147, which gives a death-rate from this disease of 8.4 per 1,000 living. This is slightly lower than last year's rate, and is the lowest yet recorded in this town. The principal municipal institution for the treatment of Tuberculosis is the Tuberculosis Dispensary, which was opened in 1911. The staff consists of the two medical officers, Dr. B. C. Stevens, appointed in July in succession to Dr. Williamson, who left to join the staff of the Ministry of Health, and the assistant tuberculosis medical officer, Dr. S. Bryson, appointed in April, together with four nurses and a secretary and an almoner. The Dispensary is open on every day throughout the week, with evening sessions, to see such patients, who being at work, are not able to attend during the day. In addition to the Dispensary there is the Langstone Sanatorium, with 19 beds; Beach Lodge, at Langstone, with accommodation for ten children ; two wards at the Milton Infectious Diseases Hospital for 32 advanced cases, and cases have also been sent to outside sanatoria. Surgical cases of tuberculosis are sent to the Royal Portsmouth Hospital and to Margate ; surgical cases in children are sent to the Treloar Hospital at Alton, and in regard to the latter, we are greatly indebted to Sir Henry Gauvain for his kindness in attending the Dispensary to give advice in regard to certain cases.

The usual tables of statistics have been prepared, giving particulars of the work done. The various methods of treatment and the aspects of tuberculosis have been so fully discussed in past annual reports that there is very little fresh To a certain extent work carried out for the cure of to add. persons suffering from tuberculosis remains disappointing; this is true whether the treatment be at sanatoria, or at labour colonies, or by tuberculin, or by any of the other methods which at different times seem to promise success. Especially frequent are the disappointments amongst those who have to work hard for their living : so many of this class, after apparently securing considerable improvement from treatment, immediately relapse after returning to their ordinary conditions of life. One great difficulty experienced is that there seems no opening for patients to carry on part time work of a suitable character at a remunerative wage. The one point which one's experience with tuberculosis emphasizes, is that prevention is easier than cure, and that if the eradication of tuberculosis is to be effected, it will be

accomplished by methods of prevention rather than by those of treatment. At the present time the great overcrowding, due to scarcity of housing accommodation, will, I am much afraid, very seriously affect the tuberculosis rate in this and other large towns; good housing is the foundation of the healthy life of a community, and in nothing is the lack of good housing more marked than in its effect on the prevalence of tuberculosis.

The usual tables are given, giving various particulars of the work.



XVI.

TABLE

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37

REPORT OF THE MEDICAL OFFICER OF HEALTH

TABLE XVII.

Table showing the number of Deaths and Death-rates per 1000 living from TUBERCULAR DISEASES for Forty-one Years (1879 to 1920).

		onary	(2)	(3)	Totals Cols. 2 a	
Year	Tubero	culosis	Tubercular Meningitis,	Other Forms of		
A COL			Hydrocephalus	Tuberculosis		
	Deaths	Rate	Deaths	Deaths	Deaths	Rate
1879	271	2.05	44	58	102	.77
1880	234	1.74	49	81	130	.96
1881	275	2.14	44	61	105	.81
1882	269	2.07	33	67	100	·76
1883	262	1.96	41	72	113	.84
1884	292	2.12	34	62	96	· 69
1885	290	2.06	36	54	90	·64
1886	285	1.98	38	85	123	·86
1887	261	1.77	41	95	136	.92
1888	240	1.60	38	90	128	-85
1889	251	1 + 63	35	93	128	.83
1890	319	2.03	37	57	94	.60
1891	252	1.57	41	86	127	.79
1892	308	1.89	31	51	82	·50
1893	254	1.53	32	59	91	.55
1894	241	1.43	21	50	71	·42
1895	280	1.64	43	50	93	.54
1896	283	1.63	51	55	106	.61
1897	245	1.38	39	33	72	.39
1898	277	1.54	37	57	94	.52
1899	295	1.61	40	64	104	.57
1900	286	1.53	42	53	95	.51
1901	278	1.47	37	91	128	.67
1902	308	1.58	31	51	82	.42
1903	269	1.35	35	34	69	.34
1904	321	1.58	44	32	76	·37
1905	314	1.52	42	25	67	.32
1906	306	1.45	38	36	74	.35
1907	282	1.31	47	36	83	.38
1908	300	1.36	39	38	77	.35
1909	272	1.21	41	33	74	.33
1910	249	1.09	40	23	63	·28
1911	239	1.02	36	23	59	.25
1912	267	1.13	30	46	76	.32
1913	264	1.08	41	40	81	.33
1914	249	1.01	33	52	85	.34
*1915	233	1.15	51	69	120	.59
*1916	188	0.95	39	48	87	.43
*1917	269	1.35	38	62	100	.50
*1918	261	1.28	23	45	68	.33
*1919	197	0.88	25	37	62	.27
*1920	197	0.84	19	36	55	.23

* Calculated on estimated civil population.

TABLE A.

PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1912.

Summary of Notifications during the period from 4th January, 1920, to the 1st January, 1921.

				Mum	ber o	Number of Notifications on Form	tifica	tions	on 1	form	А.			Nu	mber	N Jo	otificatio	Number of Notifications on Form B.	No. of N tions on	No. of Notifica- tions on Form C.
					P	Primary Notifications.	V No	tifica	tions				Total Notifications	Prim	ary 1	Notifi	Primary Notifications	Total Notifications	Poor	
	- to 0	1 5	5 10	10 15	15 to 20	20 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 and upw.	Total Primary Notiftus		under to 5 10	r 50 10	10 15	Total	cases previously notified by other doctors	Law Institu- tions	Sana- toria
Pulmonary :																				
Males	:	ŝ	12	13	14	24	54	45	33	11	3	214	265	:	1	-	-	63	1	147
Females	:	:	13	Ξ	16	30	53	40	22	3	ŝ	161	243	:	:	:	:	:	3	91
Non-Pulmonary :														-						
Males	61	00	20	6	7	ŝ	6	••	01	:	:	63	68		:	:	:	:	:	4
Females	-	9	18	18	6	3	6	3	4	:	:	73	81	:	:	:	:	:	1	15

REPORT OF THE MEDICAL OFFICER OF HEALTH

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39

TABLE B.

Giving the results of the examination of patients at the Dispensary.

	Tubercular	Not Tubercular	Pre- Tubercular	Observation	Diagnosis Incomplete	Total
Adults	264	121	3	3	17	408
Children	101	148	37	6	4	296
TOTAL	365	269	40	9	21	704

TABLE C.

TABLE OF OCCUPATIONS of Patients found to be Tubercular.

Invalided Ar	my	 	43	Teachers		 	3
Invalided Na	vy	 	33	Factory		 	17
Skilled Work	men	 	25	Miscellane	ous	 	3
Labourers		 	8	No Occup	ation	 	3
Police		 	1	G.P.O.		 	2
Clerks		 	2	Milk Carri	ers	 	2
Dressmakers		 	3	Agents		 	3
Shop Assistan	nts	 	17	Nurses		 	2
Drivers		 	6			-	
House Wives		 	75			1	264
Servants		 	16	1			

TABLE D.

Showing particulars of 365 Patients found to be Tubercular.

Age and Sex Table-ADULTS.

	16-19	20-29	30-39	40-49	50-59	60 & Over	Total
Male	16	52	38	32	7	1	146
Female	13	48	36	16	5		118

Age and Sex Table-CHILDREN.

	0-4	5-6	7-8	9-10	11-12	12-15	Total
Male	7	9	8	16	4	7	51
Female	5	9	7	10	8	11	50

TABLE E.

Showing the number of cases of Pulmonary and Non-pulmonary Tuberculosis.

	Pulmonary	Pulmonary and Other Organs	Non-Pulmonaty	Total
Adults	 219	15	30 .	264
Children	 26	7	68	101
TOTALS	 245	22	98	365

TABLE F.

Showing the Distribution of the Disease in the Non-pulmonary Cases.

		Adults	Children	Total
oint		11	12	23
Bone		7	5	12
Senito-urinary		4		4
škin		3	2	5
Hands		9	50	59
Peritoneum		1	2	3
arynx		7		7
Eyes		3	4	7
		45	75	120

TABLE G.

Showing the Number of Patients in each of the Three Stages of the Disease (Turban's Classification).

Adults	Stage I.	Stage II.	Stage III.	Totals.
	90	86	58	234
Children	17	12	4	33

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TABLE H.

LANGSTONE HOSPITAL

	Ma	ales	Fen	nales	Child	lren	Totals
	Insured	Non-Insrd.	Insured	Non-Insrd.	M.	F.	
In Langstone Dec. 31st, 1919	9	-	4	1	2	-	16
Admitted during 1920		1	6	7	1	6	68
TOTALS	56	1	10	8	3	6	84
Discharged during 1920	45	1	7	7	3	4	67
In Langstone Dec. 31st, 1920	11	-	3	1	-	2	17

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42 REPORT OF THE MEDICAL OFFICER OF HEALTH

TABLE XVIII.

Week ending	Small-pox	Scarlet Fever	Diphtheria	Enteric Fever	Puerperal Fever	Erysipelas	Cerebro Spinal Meningitis	Acute Poliomyelitis	Ophthalmia Neonatorum	Pneumonia	Acute Polio. Encephalitis	Encephalitis Lethargica	Malaria	Total
1920 Jan. 10		6	16						3	4			2	31
,, 17		5	11			2			5	7			1	31
,, 24 ,, 31		5 7	18 21			4			2 4	8 6				37 43
Feb. 7		10	10			1			1	8				30
,, 14		6	11	1					2	21			2	43
., 21		5 4	23			1			2 3	5 9				36
,, 28 March 6		3	11 12		•••	2	•••	•••	2	2	•••	•••	2	29 21
" 13		4	11	ï		3	ï		3			1		24
., 20		2 5	12			1			5	7				27
,, 27		5 2	17 14			6			4 2	15 6			2	49
April 3	•••	4	14	• •		1			3	7			3	28 28
,, 17		3	9						2	5			1	20
,, 24		1	14						1	2				18
0		4 6	16 17	· . 1		2	i	• •	22	3				24 31
15	•••	3	13			2			6	2				26
,, 22		2	15			1	1		4	1				24
,, 29		9	13		1				2	3			1	29
June 5 ., 12		5 5	12 8	1	·:- 1	2	2	• •	6 3	2		• •	· · · · · · · · · · · · · · · · · · ·	30 19
,, 19		11	19			1			4	1				36
,, 26		5	17	1		3			2					28
July 3		4	17	1					4					26
,, 10 ,, 17		7	14 11	1		2		• •	4 2		• •	1		28 22
,, 24	1	4	14	ï		2			2				1	24
,, 31		4	17						2					23
Aug. 7		4	8	• •	• •	1	•:		1		• •		• •	14
,, 14 ,, 21		9 3	8 6	4	• •		1		3				•••	25 13
,, 28		7	9	i		ï		1	2	11				21
Sept. 4		3	4										1	8
, 11		10 15	10	1		2	1		2	• •				26
,, 18 ,, 25		13	6 11	1 5		1			4			•••	•••	23 33
,, 25 Oct. 2	1	6	12		i	5			3	2				29
,, 9		9	13	2		1			5					30
,, 16 ,, 23		12 21	8	• •		3 2			1	1	•••	11	•••	25 40
,, 23 ,, 30	11	20	21			2			6			1		49
Nov. 6		19	16	1	1	4				1				42
,, 13		19	19			2			2					42
,, 20 ,, 27		22 16	17 13	• •		1 4						1		41 33
,, 27 Dec. 4	11	23	13	ï		7	i		2	2				49
,, 11		30	20		1				5					56
,, 18	10	6	12	1					4	1				24
,, 25 Jan. 1		15 15	6 11	1		1			2	3				28 28
Jan. 1		10	11			1			1					10
											1.000			

WEEKLY RETURN of cases of Infectious Diseases reported in accordance with the Infectious Disease (Notification) Acts, 1889 and 1099.

MATERNITY AND CHILD WELFARE.

By far the most satisfactory feature in connection with maternity and child welfare work in the Borough is the extraordinary low infantile mortality rate, only 389 deaths of children under one year of age were registered, which give an infant mortality rate of 60 deaths per 1,000 births. The average infant mortality rate for the whole country was 80 deaths per 1,000 births ; the rate of 60 recorded in Portsmouth is, I believe, the lowest ever reached in this or any other equally large town. A reference to the chart on page 47 shows in diagrammatic form the wonderful improvement in the preservation of infant life which has gradually taken place in the last twenty years, and affords striking evidence of the success of the various measures which have been instituted for the amelioration of the conditions of infant life.

During the year 6,508 births were registered, and of these 287 were illegitimate. Of the total births no fewer than 4,148 were attended by midwives, and on 651 occasions it was found necessary to send for medical assistance in connection with the condition of mother or child. The work of the midwives was supervised by the health visitors, and speaking generally, the character of the work carried out by the midwives was satisfactory. It was not found necessary to take proceedings against any midwife for infringement of the rules of the Central Midwives Board, but on five occasions warnings were given in respect of various matters. Of the 59 midwives practising in the Borough 46 were certificated, and 13 uncertificated. There is no doubt whatever that the Midwives Act of 1902 has effected a very great improvement in the practice of midwifery work amongst the working classes, and it has been not the least factor in the reduction of the infant mortality rate.

The Child Welfare Centres were open as follows : At 182 Fratton Road, on Monday, Tuesday and Thursday afternoons—average attendance 82 ; at St. George's Institute, Portsea, Wednesday afternoons—average attendance 64 ; at Winchester College Mission Hall, Stamshaw, on Wednesday mornings—average attendance 41 ; and at St. Patrick's Institute, Eastney, on Friday afternoons—average attendance 84. The total attendances at all the Centres during the year amounted to 22,620. Since the opening of the Municipal Maternity Hospital ante-natal cases have been seen by the Medical Officer at this institution, instead of at the Centres. The total number of such cases, many of which were sent by midwives, was 206. We have again to acknowledge with gratitude the assistance given by a number of voluntary workers at the Centres, who assisted in connection with the clothing of babies, issue of food, and in other directions. In common with other sanitary authorities, advantage was taken of the Milk (Mothers and Children) Order, 1919, to issue dried milk and milk foods in cases of necessity amongst those attending the Child Welfare Centres. The greatest care has been taken to see that milk was given free of cost only to those mothers who could not afford to buy the necessary nourishment for their babies, and unless the circumstances were exceptional, it was not so issued to any where the weekly income of the family exceeded 5s. per head per week. The total annual net cost of the milk and milk foods issued was about £970.

During the year 15,967 visits have been paid by the Health Visitors; of these 100 were paid to expectant mothers, 10,082 to infants under one year, 135 to cases of ophthalmia, and 108 to cases of measles and whooping cough, and 121 visits of inspection to midwives.

Municipal Maternity Hospital.-At the beginning of April there was opened the Municipal Maternity Hospital at "Ravenscourt," Elm Grove, Southsea. The need for such an institution has long been felt, and it is interesting to recall that it was in 1906, fourteen years ago, that in a special report I first urged this project upon the Council. It was not proceeded with then, because the Local Government Board informed the Council that a maternity hospital was not one upon which they could sanction expenditure, and it was only finally last year that all obstacles were overcome and the hospital became an accomplished fact. The premises have been temporarily taken on a three years' lease, and are very suitable for the purpose; the wards are bright, lofty, and airy, and the situation is central, well served by the trams. Although accommodating only 14 beds, the hospital is in every way admirable, and the Matron, Miss Cranfield, with the staff, have spared no effort to render the institution one of which any governing body may justifiably be proud.

The hospital is intended only for necessitous persons who are bona fide inhabitants of the Borough, and except in exceptional circumstances, the Committee do not admit any patients whose income is over sixty shillings a week. The medical officer in charge is Dr. Mabel Ross, and the institution has been recognised as a qualifying training centre for midwives by the Central Midwives Board. The following return prepared for the Ministry of Health gives particulars of the work :—

RETURN FOR THE PERIOD 19th APRIL to 31st DECEMBER, 1920.

1.	Total number of cases admitted	167	
2.	Average duration of stay	14	days
3.	Number delivered by Midwives (and pupils)	143	
4.	Number delivered by Doctors	24	
5.	Number delivered by Doctors		
	by the midwife, with reasons for requiring assistance :		
	(a) Ante-natal 1 (c) After labour 1	8	
	(b) During labour 31 (d) For infant		
6.	Number of cases notified as Puerperal Sepsis, with result	-	
	of treatment		
7.	Number of cases in which temperature rose above 100.4		
	for 24 hours, with rise of pulse rate	7	
8	Number of cases notified as Ophthalmia Neonatorum,		
0.	with result of treatment	4	
	Cured 3		
	Greatly improved, treatment continued		
	at home 1		
9	Treatment of cases of Inflammation of the Eyes, however		
0.	slight	3	
10.	0	~	
10.	Institution, with reasons why they were not breast fed	20	
	Condition of Mother 7		
	Lack of Milk 13		
11	Number of Maternal Deaths, with causes		
	Number of Fetal Deaths (stillborn or within 10 days of		
14.	birth) and their causes, and the results of the post-		
	mortem examination if obtainable	10	
	Stillborn 6	10	
	Macerated fetus 2		
	Macerated fetus 2 Death (fits third day) 1		
	Monster 1		
	MULLING I		

46

REPORT OF THE MEDICAL OFFICER OF HEALTH

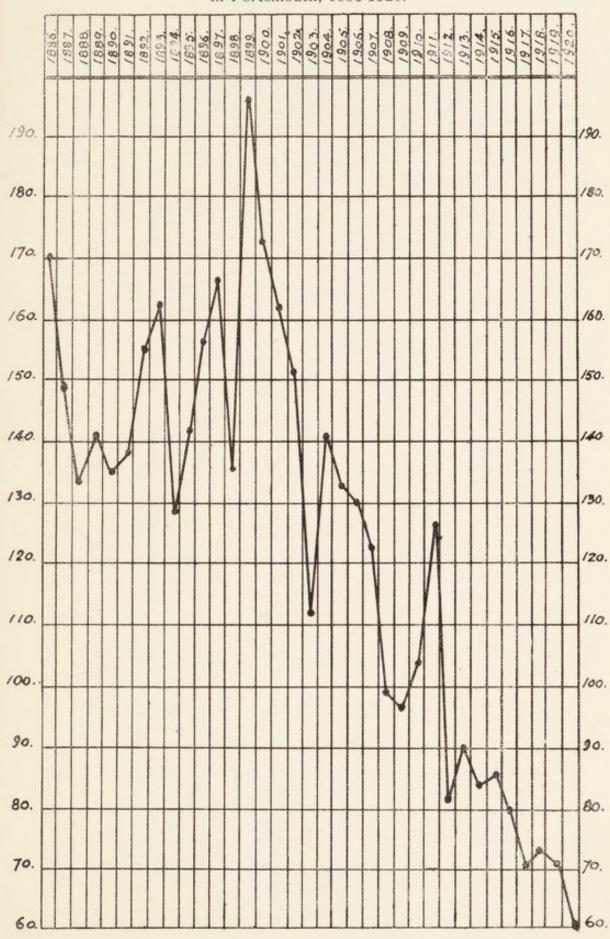


Chart showing number of Deaths under 1 year of age to 1000 Births in Portsmouth, 1886-1920.

TABLE XIX.

Table showing the Relationship of Temperature and Fatal Cases of Summer Diarrhoea.

We	ek ending 1920	Temper	rature	Earth '	Therm.	Rain	Deaths from
	1920	Max.	Min.	1 ft.	4 ft.	in inches	Diarrhoea
July	17th	 64.2	55.7	63.3	60.2	0.41	1
	24th	 67.0	55.4	64.5	61.0	1.31	1
	31st	 64.0	51.7	61.5	60.8	0.54	
August	t 7th	 65.7	55 . 1	61.5	62.0	0.30	2
,,	14th	 $68 \cdot 4$	53.8	63.0	61.0		
,,	21st	 65.0	$52 \cdot 2$	62.5	61.5	0.57	
,,	28th	 $64 \cdot 2$	50.8	$59 \cdot 4$	60.3	0.04	
Sept.	4th -	 $64 \cdot 0$	50.8	59.7	60.0	0.09	1
,,	11th	 $67 \cdot 2$	52.8	60.0	60.0		2
,,	18th	 64.6	51.0	$59 \cdot 2$	59.5	1.50	
,,	25th	 61.7	49.7	57.5	58.8	0.13	3
Oct.	2nd	 $63 \cdot 2$	$52 \cdot 1$	58.0	58.6	0.59	
,,	9th	 65.5	55.8	58.0	58.1	1.13	2
,,	16th	 62.8	$52 \cdot 4$	57.5	58.1	0.83	
,,	23rd	 57.5	$46 \cdot 4$	$54 \cdot 4$	57.5		
,,	30th	 57.7	42.0	50.2	56.0		3

BACTERIOLOGY.

The following Table shews the amount of work that has been carried out in bacteriological investigation of suspected cases of infectious disease.

Drept			RES	SULT	Tomas
DISEAS	515		 Positive	Negative	Total
Diphtheria			 258	844	1102
Tuberculosis			 177	682	859
Enteric Fever			 7	12	19
Other Diseases	•••		 	3	3
		TOTAL	 442	1541	1983

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	SURNAME.		CHRISTIAN NAME.	Address,		No. of Cert.	Date of	DATE OF NOTICE.	
1.	Adams	:	Charlotte	136 Talbot Road		20448	97th Amil 105	Oded Tourism 100	1 9
ci	Ainslev		Clarissa Marv	23 Outram Road	:	51307	14th And Man	· ·	2 9
3	Barnes		Filza	996 Sultan Dood	:	10000	0001 VIII 100	Sept., 1	2
-	Barnes	:	Flizabeth	194 Church Dood	:	06707	2011 April, '00	January, 1	0.0
10	Braov	:		Church Nodu	:	10100	14th Oct., 08	January, I	0
ie	Bracefield	:	Dennone Morre	10 Commencement	:	42150	1St May, '15	January, 1	0
5	Brockett	:		12 COINAJ SUFEL	:	47125	11th May, '18	January, 1	0
8	Broughton		Emilv	_	:	4000F	/II May, 1/	January, 1	2 3
6.	Burgess		Alice Tessie	29 Festing Road	:	12419	92ed Park Int	January, 1	8.9
10.	Calvert		Fanny	70 Sutherland Road	:	20206	2.41 Turn 100	ary, 1	2 9
11.	Cordell	: :	Ellen Louisa	128 Prince Albert Road	:	17605	10th Amil 20		2.9
12.	Challis		Kate	37 Avleshurv Road	:	4906	964b April 204	January, 1	2 9
13.	Dowse		Mabel Coles	93 Power Road	:	00310	745. April 200	January, 1	8 9
14.	Filiott		Marv	198 Prince Albert Deed	:	21007	Ant. Turo 204	January, 1	8.9
15.	Farndell		Marion	492 Commercial Road	:	5755	9745 Oct 101	January, I	2.9
16.	Flynn		Ida	5 Addison Road	:	19308	974h April 202		2.9
17.	Foley	:	Louisa	492 Commercial Road	:	37918	98th Anril '13	154b Tanuary, 1920	2.9
18.	Farr	:	Mary	6 Longs Road	: :	52338	10th Nov '20	December 1	2.9
19.	Gaskell	:	Mary Elizabeth	68 Bedhampton Road		47607	1st Aug., '18	Tanuary.	2.0
20.	Ginn	:	Elizabeth	26 Besant Road	:	8211	29th Sept., '04	Ianuary. 1	0
21.	Golding	:	Mary	10 Henrietta Street	: :	15703	23rd Mar., '05	-	0
100	Goodman	:	Lucy Ann	100 London Road		26437	21st May, '08	-	0
33	Gray	:	Eliza Ann	35 Herbert Street		11585	26th Jan., '05	-	0
24.	Gwyther	:	Ada Lavinia	1 Derby Road	:	23045	22nd Feb., '06	January, 1	0
52.	Hayes	;	Annie	105 Toronto Road		15559	23rd Mar., '05	-	00
26.	Humphrey	:	Eliza	42 Simpson Road		9290	27th Oct., '04	Tanuary, 1	0
.17	Hebington	•••	Eliza	31 Curzon Howe Road		50981	1st June, '20	une, 1	0
100	Hodge	:	Ada	73 King Street, Southsea		50992	12th May, '20	-	0
23	Jack	•••	Emma	106 Jessie Road	:	47280	11th May, '18		0

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	SURNAME.	CHRISTIAN NAME.	ADDRESS.		No. of Cert.	Date of Certificate.	DATE OF NOTICE.	ω.
30	Tago	Clara Said	28 Victoria Road North		23268	22nd Feb., '06		1920
00	Tafforer	heth	219 St. Augustine Road		10668	22nd Dec., '04	17th January,	1920
00	Vone		133 Fastfield Road		31908	31st July, '02	18th January,	1920
200	IN Call		24 Gamble Road	:	33069	4th Feb., '10		1920
00	NUCLUR		37 Green Road		14211	23rd Feb., '05	15th January,	1920
÷ 5	L'angstreetn	-ino	135 Powerscourt Road	: :	2640	24th Mar., '04	19th January,	1920
00	L'AWTCHCC	Cautonico			48431	10th Feb., '19	15th January,	1920
8.5	Tovett	Induction	46 Gains Road		50759	2nd May, '20	13th May,	1920
31.	L'ongeroit		220 Stamshaw Road	:	46160	11th Aug., '17	1st January,	1920
00	Mattheme		84 Monmouth Road		8455	27th Oct., '04	16th January,	1920
.00	Manuald	This hath	51 Spearer Road		3625	28th April, '04	15th January,	1920
41.	Manuela	Flizabeth	90 Timpson Road		39421	17th Dec., '13	2 C	1920
101	Moore	Emma I flian K	23 Oliver Road		48007	9th Nov., '18	16th January,	1920
101	Monor		152 Somers Road	:	44981	31st Oct., '17	16th January,	1920
10.	Murgan,	Tane Ann	22 Resant Road	:	43020	1st Nov., '15	17th January,	1920
	Doud	Marcaret	264 Twyford Avenue		35805	2nd May, '12	20th January,	1920
101	Dulline	ACT ACT	4 Wyckeham Road		34709	28th Oct., '11	10.0	1920
10.	Diffine	The second secon	80 Methuen Road	:	3388	24th Mar., '04		1920
.15	Dattiment	Nallia I	31 Chesterfield Road		48897	10th May, '20	13th May,	1920
40.	Plucknett	Mary Mand	39 Wykeham Road		49387	9th Aug., '19		1920
20	Duct	Tane	204 Powerscourt Road		40133	April,		1920
. 17	Consom	Maud Marv	14 St. Mary's Road		40579	June		1920
20	Silvester	Ann	23 Lower Derby Road		11818	Jan.,		1920
100	Charrent	Victoria Mand	2 Collins Road		27750	Dec.,	-	1920
54.	Toulor	Florence Mary	1 Magdala Road, Cosham		29219	Aug.,	-	1920
÷. 1	Taylor	Tile Mov	3 Posbrook Road		18246	27th April, '05	18th January,	1920
.00	Thompseldon	Dolith More	I Collins Road		22860	28th Dec., '05	25th January,	1920
.00	Towningo	Thur number	16 St George's Square		15515	23rd Mar., '05	15th January,	1920
	Tomes	Votidam Destrice	Walmer Road		38470	16th June, '13	13th Sept.,	1920
200	VINCENT	Natincen Beautice	45 Catisfield Road		46669	10th Oct., '17	16th January,	1920
50.	Weiter	Reherra	17 Exeter Road		11514	26th Jan., '05	20th January,	1920
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VENEREAL DISEASES.

Extremely good work has been carried out at the Venereal Diseases Treatment Centre at the Royal Hospital, and the success of this institution, under the very able management of the Medical Officer, Dr. A. Cambell, is assured. The facilities for treatment have been extended during the year by the provision of more beds and the construction of a wellplanned male patient department, with six irrigation rooms.

From the tabular returns it will be seen that the total number of new patients during the year was 1,004, an increase of 55 over the previous year; as there were 414 patients under treatment or observation on the 1st January, the total number treated during the year amounted to 1,518.

I feel very strongly that it is difficult to over-estimate the value to the health of the community of the work which is being carried on in connection with the treatment of venereal diseases, and that in the course of a few years this work must bear a marked effect on the health returns of the Borough. I refer specially, not so much to the immediate benefit to the patient from the cure of a loathsome disease, important as this is, as to those more remote effects of venereal disease, not yet appreciated by the general public, which are so distressingly exhibited in the mentally defective and physically deformed children of diseased parents. The more advances medical science makes in the investigation of disease, the more clearly is the far-reaching effect of venereal disease on the health of the community established, and I believe there are no other diseases, to the cure and prevention of which the efforts of the Local Authority can at the present time be devoted with a greater certainty of assured beneficial results.

The following return supplied by the Medical Officer, gives particulars as to the work carried on during the year :----

RETURN RELATING TO ALL PERSONS WHO WERE TREATED AT THE TREATMENT CENTRE DURING THE YEAR ENDED 31st DECEMBER, 1920.

		Sypl	hilis	Soft Cl	iancre	Gonor	rhoea	Conditions other than Venereal		Ter	TAL
		м.	F.	М.	F.	M.	F.	М.	F.	М.	F.
1.	Number of persons who, on 1st January, 1920, were under treatment or ob- servation	186	139	3	1	120	30	23	12	332	182
2.	Number of persons 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 only	234	150							234	150
	Soft Chancre only			7	5					7	5
	Gonorrhoea only		• •	1		224	31			224	31
	Syphilis and Soft Chancre Syphilis and Gonorrhoea	$\frac{1}{25}$	10	1	• •	25	10			2	20
	Syphilis and Gonorrhoea Gonorrhoea & Soft Chancre	20			••		10		•••	50	
	Syphilis, Soft Chancre and		•••								
	Gonorrhoea Conditions other than										
	Venereal							200	81	200	81
	Total—Item 2	260	160	8	5	249	41	200	81	717	287
_	TOTAL—Items 1 and 2	446	299	11	6	369	71	223	93	1049	469
	Number of persons who ceased to attend the out- patient Clinic : (a) before completing a course of treatment for (b) after completion of a	92	80	1		53	14			146	94
1	course of treatment, but before final tests as to cure of	28	10	1	1	27	4			56	15
4.	Number of persons trans- ferred to other Treat- ment Centres after treat-										
5.	ment for Number of persons dis- charged from the out-	22	8			23	7			45	15
6.	patient Clinic after com- pletion of treatment and observation for Number of persons who, on the 1st January, 1921,	63	35	8	4	120	18			191	57
	were under treatment or observation for	241	166	1	1	146	28	15	7	403	202
-	ГотаL—Items 3, 4, 5, and 6	446	299	11	6	369	71	15	7	841	383
7.	Total attendances of all persons at the out-patient Clinic who were suffering from	4760	3778	263	60	11466	1954	846	547	17335	6339
8.	Aggregate number of " In- patient days " of treat- ment given to persons who were suffering from	214	518	10		426	388	89	61	739	967

REPORT OF THE MEDICAL OFFICER OF HEALTH

	REPORT OF THE MEDICAL OFFICER OF HEALTH 35														
				For de	tection	oi							For		
1	. Examinations of Pathological material ·	Sp	irochete	s Go	onococci	i	0		the		s		ass	ser	nann Ion
	 (a) Specimens which were examined at, and by the Medical Officer of, the Treatment Centre 		27		5										
	(b) Specimens from persons attending at the Treatment Centre which were sent for examination to an approved laboratory		2		1409				25	92			1	56	8
	Statement showing the services rendered according to the area							the	ye	ar,	cl	ass	ifie	ed	
													=	.A.	
Nat	ne of County or County Borough (or Country in the case of persons residing elsewhere than in England and Wales) to be inserted in these headings.	Portsmouth	Hampshire	West Sussex	Isle of Wight	Kent	South Shields	Glasgow	Surrey	Bournemouth	Liverpool	London	Wolverhampton	Brunswick, U.S.	Total
A. 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 :			49 35 33	23 1 19 12	3 3 4	1				1			· · · · · · · · · · · · · · · · · · ·		420 13 290 281
	Total	807	117	55	10	4	2	2	1	1	1	2	1	1	1004
 B. Total number of attendances at the outpatient Clinic of all patients residing in each area			1652	506	52	46	11	2	3	7	10	4	1	6	23674
			230	254	62				20					14	1706
D.	Number of doses of Salvarsan sub- stitutes given in the : 2. In-patient Dept	2313 36	383	186 21	7					7					2896 78
-	to patients residing in each area.	_				L.,				-		_			
E.	Give the names of Salvarsan substitutes used in the treatment of syphilis and the usual initial and final doses.		Neo-Kharsivan and Novarsenobillon $0\cdot 3$ and $0\cdot 6~{\rm grms}.$ Sulfarsenol $0\cdot 06$ and $0\cdot 48~{\rm grms}.$												
F.	State the number of doses of Salvarsan substitutes usually given in a full course of treatment.	Primary cases = 7 injections. Secondary cases = 27 injections in first year.													
G.	State in what proportion of cases, ap- proximately, Salvarsan substitutes are used in the treatment of syphilis.	90	90 per cent.												
н.	State the nature of tests applied in deciding as to discharge of patients referred to in Item 5 on previous page.	sist mic gor tion Mic gor	ting afte croscopic tococcus n of uref	e of di er long al ex- thra on ion of cal ex-	ischarge g treati aminati throscoj i dilator prosta aminatio	e, o men lons pic r, ate ons	or nt, 5 c a	in fa to sat nd	ilu de nin se	re em ati	ou ou: ion ina	i r str	epe ite Pa ves	eat Ipa	ed he ·
		1	Primary- Secondar	y-neg		Vas	sset	m	an	for	2				ter

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In my last Annual Report I pointed out that, valuable as is the provision for the treatment of venereal disease, a much more important matter for the consideration of the Local Authority was the prevention of these diseases, and so convinced was I of the necessity for action being taken in this direction, that in February I presented the following Special Report :—

The Prevention of Venereal Disease.

To the Chairman and Members of the Health and Housing Committee.

GENTLEMEN,

The effect of venereal diseases upon the health of the community is so serious, that I feel it my duty to report to you further on the subject.

As you will remember, in October, 1916, you decided to provide a clinic for the treatment of persons suffering from venereal diseases, and, through the cordial co-operation of the authorities of the Royal Portsmouth Hospital, there was opened at the beginning of 1917 a Venereal Diseases Treatment Centre, the work carried out at which will, I venture to say, bear favourable comparison with any in the kingdom. This Centre has since been enlarged, and the provision in this town for the treatment of venereal diseases may now be considered satisfactory.

The point to which I now wish to draw your attention is that the provision of treatment, necessary though it may be, is not the chief duty of a sanitary authority ; it is the prevention of disease, and not its treatment. that should be a health authority's highest aim. The fact that it is necessary to make extensive provision for the treatment of a disease is evidence that the measures for the prevention of that disease have been neglected, or, if not neglected, have failed. For example : we have to provide dispensaries, sanatoria, and hospitals for the treatment of tuberculosis, because the measures for prevention of tuberculosis have been neglected in the past ; had proper attention been paid to the causes of tuberculosis, such as bad housing, overcrowding, unhealthy conditions of employment, bad food, etc., we should not now be expending such huge sums in attempting to treat it. Moreover, methods of treatment will never stamp out a disease. Typhoid fever, typhus, and small-pox have been largely stamped out in this country, but this has been effected not by methods of treatment, but by the adoption of suitable sanitary measures directed towards the prevention of each of these diseases. Similarly, although the effects of venereal disease may be modified in the individual by efficient methods of treatment, the disease can only be prevented by the adoption of adequate sanitary preventive measures. Such adequate sanitary measures are available, and it is with a view of bringing these to your notice that I have prepared this report.

Before describing how venereal diseases can be prevented, I would refer briefly to the fact, not yet sufficiently realised by the public, that the prevalence of venereal disease in the country is alarming, and further, that a very large proportion of the sufferers from venereal disease are innocent of any immoral relations. The late Sir William Osler stated that syphilis alone was the third or fourth of the great death-dealing diseases ; and death is not its worst feature-in many cases death is a welcomed relief to its intense physical and mental suffering.* But the great tragedy in connection with venereal diseases is the host of innocent women and child victims. Even if there are those who profess to be able to contemplate with equanimity the sufferings from venereal diseases in a vicious person, surely none can remain unmoved at the thought of hundreds of thousands of little children, who, instead of being happy laughing infants, are, solely on account of venereal diseases in their parents, miserable, suffering, diseased, deformed, blind, deaf and imbecile. This is no exaggerated picture, such children can be seen in your asylums, poor-law establishments, hospitals, blind schools, and in hundreds of homes throughout the land. Moreover, as one of the effects of the late war, venereal diseases are almost certainly more prevalent now than they have ever been before in this country.

Vet it is a fact that venereal diseases are preventable. Speaking with an experience of 25 years in public bealth administration, I venture to say that there are no infectious diseases so easily guarded against as venereal diseases. That they have not been prevented is due to two reasons : First, it is only of recent years that medical science has demonstrated with certainty that venereal diseases can be prevented ; secondly, the methods for the prevention of venereal disease have been witheld from the public because they have unfortunately become confused with ethical, moral and religious considerations, in other words, the public have been left in ignorance of the methods of prevention of venereal diseases because of a mistaken idea that such knowledge would increase immorality.

This question of the immorality of telling the public how they can protect themselves from venereal diseases I shall discuss later ; I would only say here that I am a health officer ; I am responsible for advising you to the best of my ability how the inhabitants of Portsmouth can be protected from disease, and I should be guilty of a grave neglect of duty to you, and to those whom you represent, if, having regard to the terrible effects of venereal disease, I failed to advise you as to the measures by which I am convinced venereal diseases can be prevented.

Venereal diseases are germ diseases; they are spread by the transference of these germs from a diseased to a healthy individual. If the

Your unworthy brother, ----."

The Times, 10th January, 1920.

At an inquest held on a young man, aged 26 years, who had committed suicide because of venereal disease, the Coroner, Mr.S. Ingleby Oddie, read the following letter left by the deceased, "Dearest of sisters,—Try and forget what you never will forgive. I should have done what I am about to do three years ago. The disgrace of it all has driven me insane. If you should ever have any sons of your own, for pity's sake, instruct them fully in the perils surrounding them. Had I not been so inexperienced, I might now be a happy and self-respecting man. Mine is yet another tragedy of damaged goods.

germs can be destroyed before they have effected an entrance into the body of the healthy individual the disease will not be communicated. It is upon this fact that scientific measures for the prevention of venereal diseases are based. As the rule is for venereal diseases to be transferred from one sex to the other, it is obvious that if one sex can be protected from venereal disease, those diseases must die out. As it is extremely simple to destroy the germs before they have gained access to the body of the male, but much more difficult to accomplish this in the case of the female, it is to the male that the methods of prevention must be applied.

The germs of syphilis and gonorrhoea, the principal venereal diseases, are of low vitality, and they are most readily destroyed by the application of a disinfectant. Moreover, after exposure to infection, the germs lie upon the surface of the male genital organ, in which situation the disinfectant can be easily applied. But the germs do not remain for long on the surface of the skin, they soon begin to work their way into the body ; therefore, for preventive measures to be effective it is essential that the disinfectant, or germ killer, should be applied immediately after exposure to infection, at the latest, within an hour.

The foregoing simple method, practically a matter of personal cleanliness, lies within the reach of everybody, and can be relied upon to prevent venereal disease. I do not ask you to accept this statement solely upon my authority. The medical profession differs upon many subjects, but it is difficult to imagine how any medical man can deny that immediate self-disinfection, properly applied, is the best known method of preventing venereal diseases after exposure to infection. As it is of the utmost importance that you should be satisfied as to the efficacy of self-disinfection, I have appealed to some of the most distinguished physicians, surgeons and scientists of the day for their opinion on this subject, and each of the following gentlemen has personally authorised me to state, that not only is self-disinfection, promptly and efficiently carried out, an almost certain preventative against venereal diseases, but each is further of opinion, so grave are the effects of venereal diseases upon our national life, that every endeavour should be made to instruct the members of the public on the subject. The following is a list of the gentlemen who have allowed me to mention their names in this respect :---

> SIR GEORGE LENTHALL CHEATLE, K.C.B., C.V.O., F.R.C.S., King's College Hospital.
> SIR JAMES CRICHTON-BROWNE, F.R.S., M.D.
> W. H. CLAYTON-GREENE, ESQ., F.R.C.S., St. Mary's Hospital.
> SIR H. BRYAN DONKIN, M.D., F.R.C.P.
> SIR ALFRED D. FRIPP, K.C.V.O., C.B., F.R.C.S., Guy's Hospital.
> H. R. GRIMSDALE, ESQ., F.R.C.S., Ophthalmic Surgeon, St. George's Hospital.

PROFESSOR MATTHEW HAY, M.D., L.L.D. (Edin. Hon.), F.R.C.P.I. (Hon.), Aberdeen University.

REPORT OF THE MEDICAL OFFICER OF HEALTH

PROFESSOR LEONARD HILL, F.R.S., M.R.C.S., Director, Medical Research Committee, National Health Insurance.
SIR ALFRED KEOGH, G.C.B., G.C.V.O., M.D., F.R.C.S., Ed., late A.M.S.
SIR WILLIAM ARBUTHNOT LANE, Bart., C.B., M.S., Guy's Hospital.
SIR FREDERICK MOTT, K.B.E., F.R.S., M.D.,

Member of Royal Commission on Venereal Diseases. SIR D'ARCY POWER, K.B.E., F.R.C.S., St. Bartholomew's Hospital. SIR G. ARCHDALL REID, K.B.E., F.R.S.E., M.B.

SIR HUMPHREY ROLLESTON, K.C.B., M.D., F.R.C.P., President Royal Society of Medicine.

SIR WILLIAM THORBURN, K.B.E., C.B., C.M.G., F.R.C.S., Manchester Royal Infirmary.

SIR THOMAS OLIVER, M.D., Newcastle-on-Tyne.

SIR FREDERICK TREVES, Bart., G.C.V.O., C.B., F.R.C.S.

H. WANSEY-BAYLY, ESQ., M.C., M.A., M.R.C.S.

In presenting this report, and in advising you to adopt certain measures which I believe ought to be taken for the protection of the public against venereal diseases, I have not come to a decision hurriedly. I have considered, as I was bound to consider, the objections which have been raised to the policy I advocate. Some of these are trivial; for instance, it has been stated that self-disinfection would fail, because in many cases men would be too drunk to disinfect properly. This may or may not be so; in any case it is no valid argument against disinfection, it is simply an argument against drunkenness, and it is not expedient to sacrifice the many sober for the few drunken.

Another argument advanced is that the process of self-disinfection is too difficult for the ordinary man to carry out ; the answer to this has been given at a public meeting at the Mansion House by Sir James Crichton-Browne, who stated that the operation was slightly less difficult than brushing one's teeth.

Again, it is urged that the system will do harm, because men will assume that the disinfectant is also efficacious for treatment, and, if they suffer from venereal diseases, will endeavour to treat themselves instead of seeking proper medical treatment. But this objection will be met if in any leaflet giving instructions as to self-disinfection the danger of attempting self-treatment is clearly pointed out.

But the most important objection that I have to meet, and one that embodies a particularly cruel and unjust accusation, is that by spreading a knowledge of the methods by which venereal diseases can be prevented we should be encouraging men to become immoral.

In the first place I do not believe that the fear of venereal disease plays any great part in preventing men from indulging in promiscuous sexual intercourse. Its most probable effect is to cause men to avoid professional prostitutes and to go instead with other women, whom they think will be free from disease. The Royal Commission on Venereal Diseases recorded its opinion that not less than 10 per cent. of the population of large cities had been infected with syphilis, and syphilis is not nearly so prevalent as the other great venereal disease, gonorrhoea. It is surely nonsense to maintain in face of these figures that fear of disease has exercised any appreciable effect on the prevention of promiscuous sexual intercourse.

In the second place, the accusation that by instructing a man how to guard against venereal diseases we are inducing him to become immoral, appears to me to be based upon a false conception of morality. True morality is of a man's inner consciousness, his ideals ; it is with him a matter of conviction, and no moral man will be instigated to commit immoral acts simply because he becomes possessed with the knowledge that such acts can be committed without fear of contracting disease. The only ground upon which the charge of inducing immorality can with any appearance of truth be brought is on the hypothesis-and it is only a hypothesisthat there are men desirous of committing immoral acts, but who are deterred from doing so for fear of disease. Such men, however, are already immoral at heart, and no great moral distinction can be drawn between a man who desires to commit an immoral act, but is deterred from doing so by the fear of disease, and the man who is not so deterred. Let me quote a passage from the Sermon on the Mount. Christ said : "Ye have heard that it was said by them of old time, Thou shalt not commit adultery : But I say unto you. That whosoever looketh on a woman to lust after her hath committed adultery with her already in his heart." Our Lord placed in the same category both the man who only desired to commit adultery and the man who actually did so. I venture to say, therefore, that even supposing some men, having acquired a knowledge of how to avoid disease, should proceed to commit acts of immorality, which they had previously refrained from owing to a fear of disease, yet the moral standard of these men has not been lowered. I am firmly of opinion that no charge of encouraging immorality can be substantiated against those who, in order to prevent the terrible sufferings from venereal diseases, spread a knowledge of the methods by means of which these loathsome diseases can be prevented.

I have dwelt at some length upon the ethical aspect of spreading a knowledge of the scientific methods of preventing venereal diseases, because the argument of encouraging immorality is always advanced by some people when the subject is mentioned. I am satisfied that the charge is an utterly wrong one, were it not so I should not have presented this report. To my mind a charge, not only of immorality, but of inhumanity, could be more easily maintained against a person, who, having a knowledge of the manner in which venereal diseases could be prevented, refused to do everything in his power to render this knowledge available to his fellow man. If venereal diseases are to be controlled there is no method other than immediate self-disinfection that offers any reasonable hope of success. There is no alternative method of control except the universal adoption of pre-marital chastity, and however much we may hope for this ideal condition, we cannot fail to recognise that at present this seems far from attainment, and it will not be materially hastened by permitting venereal diseases to spread unheeded through the nation.

Stripped of the various controversial considerations with which the subject of venereal diseases is obscured, I suggest, that in its relationship to you as Health Authority for the Borough, two facts stand out clearly and dominate all others. These are :---

- Venereal diseases are infectious diseases, which are causing intense misery, suffering, ill-health, and loss of life in the Borough.
- There is the clearest and most definite medical evidence to prove that the spread of venereal diseases can be prevented by the adoption of methods of immediate self-disinfection.

And may I remind you, that on you, as the Local Sanitary Authority, lies the sole duty for the protection of the inhabitants of Portsmouth against infectious diseases.

The method of self-disinfection, scientifically and theoretically sound, which has been proved efficacious in practice, which is advocated by the distinguished men whose names I have been permitted to mention, and which is advocated by the Society for the Prevention of Venereal Diseases, is the swabbing of the male genital organ, immediately after exposure to infection, by a solution of 1 in a 1,000 Permanganate of Potash, and the rubbing in of a 33 per cent. Calomel ointment. I do not suggest the provision of "packets" by the Local Authority; I do not even recommend that the preparations to be used should be provided-this is not the duty of the Authority. I simply recommend that the Local Authority take such steps as may be necessary to spread a knowledge of the means of self-disinfection, so that those who insist on satisfying their sexual appetites by promiscuous intercourse should be made acquainted with a means by which they can protect themselves against loathsome diseases, which, if contracted, will in all probability later on be communicated to innocent women and children. I suggest that if, as I hope, you adopt this report, a small committee be appointed to consider the best means, such as posting notices in the public urinals, the issue of printed leaflets, etc., of conveying the requisite information to the male population of the Borough.

I would only add in conclusion, that in adopting the measures which I recommend to you for the prevention of venereal diseases there is nothing inimical or incompatible with the prosecution of other measures of a social character for the promotion of chastity. Let every endeavour still be made, by sermons, by addresses, by pamphlets, by supervision over public places of amusement, by the prohibition of suggestive productions, and by every other means that promises success, to promote the adoption of a higher moral standard of life ; but let the appeal be made on the grounds of religion, self-respect and morality, and not, as is too often now the case, an appeal based mainly on the fear of venereal disease.

I have the honour to be, Gentlemen,

Your obedient Servant,

A. MEARNS FRASER, M.D., Medical Officer of Health.

Although aware that the presentation of the above Report would expose me to much criticism, which I would willingly have avoided, yet so appalling are the effects of venereal disease that, in the interests of the community, which I endeavour to serve, there was no other course which I could honestly pursue. The Report, as you are aware, was adopted by a large majority of the Council at its meeting in April, and since then propaganda work for the prevention of venereal diseases has been carried out in the Borough on the lines advocated in the Report.

It is satisfactory to find that although the Ministry of Health will not commit itself whole-heartedly to the policy adopted in Portsmouth-the Ministry advises washing with soap and water instead of with a disinfectant !-- vet the policy has received the support of many of the greatest medical authorities in the Kingdom, and it has since been endorsed by the Special Committee of the National Birth-rate Commission, a thoroughly representative body presided over by the Bishop of Birmingham. Further, many other towns have since adopted the same policy, and I believe that in the near future it will be generally adopted through the country. If it be admitted, as I think must be admitted, that venereal diseases are largely the result of ignorance, then it is obvious that it is only by dispelling this ignorance that success in controlling venereal disease can be secured. The campaign in Portsmouth is purely an educational one, and nothing but good can result from telling the public the truth about venereal disease; too much harm has already resulted in the past from concealment and shutting one's eves to the facts.

As an example of the interest which has been taken in the pioneer work of the Portsmouth Council for the prevention of venereal disease, I may mention that there has been a surprisingly large number of applications for copies of the above report, not only from the local authorities in this country but also from the colonies and foreign countries. **HOUSING.**—There is no great change in the Housing conditions since last year, but a start has been made with various housing schemes. This will shortly help to relieve the situation, but for a few years to come we shall undoubtedly suffer from a shortage of adequate housing accommodation. The total occupied houses at the end of the year was 50,797, an increase of 872 over the previous year. The total occupied houses at the 1911 census was 45,048. There is still considerable overcrowding, but without an accurate enumeration by a house to house visitation, exact figures cannot be supplied; this information will however be available after the census of 1921. Only the worst cases of overcrowding can be dealt with, as it is useless to serve notices to abate overcrowding upon persons when it is impossible for them to secure other accommodation.

The number of dwelling houses inspected for various reasons was 7,582. In respect of 40 dwelling houses, notices requiring repairs were served under Section 28 of the Housing, Town Planning, etc., Act, 1919. These were carried out by the owners in 31 instances, and in 9 by the Local Authority in default of the owners ; 2,928 notices were served in respect of various defects of dwelling houses, and in every case the repairs were carried out by the owners. No houses were closed as being unfit for human habitation—until more housing accommodation is available, it is not deemed advisable to close certain premises which otherwise would have been dealt with.

I submitted written representations to the effect that two areas were unhealthy and should be dealt with under the powers of the Housing of the Working Classes Acts. These areas were : (1) the Voller Street area, containing 51 dwelling houses, with about 250 persons ; the other, the St. George's Passage area, Portsea, with 22 houses and about 60 inhabitants Under the present housing conditions it has been found impossible to proceed with the clearance of these areas, as there is no available accommodation in the Borough for the persons who would be displaced by such procedure.

During the year a commencement was made by means of State-aided schemes to provide new houses for the working classes. The Committee accepted contracts from various contractors for 245, 37, 19, 32, 17, 24 and 31 houses, making in all 405. Ten of these were completed during the year, and according to the terms of the contract 232 more must be completed by the end of 1921. There were also completed 27 houses built under a subsidy, and 13 non-subsidised houses. making a total of 50 new houses for the working classes during 1920.

I much regret being unable to report that a commencement has been made with building houses on the proposed area of 520 acres at Wymering, on the slopes of Portsdown Hill—an ideal situation for a housing scheme. So far this scheme has been delayed by one obstacle after another, and not a brick has yet been laid. It is quite obvious that the future development of the Borough must take place in this direction ; it is therefore essential that the whole area should be laid out beforehand with skill and wise precision, else it will gradually become covered haphazard with a crowd of houses, instead of being transformed into a healthy and beautiful residential area for the working classes. It will, in my opinion, be nothing short of a calamity for Portsmouth if advantage is not taken of the Government grant to develop this area on the best modern lines. If the opportunity is lost now it is unlikely that it will recur.

APPENDICES.

HOUSING CONDITIONS.

(Statement in form required by Ministry of Health)

STATISTICS for Year ended 31st December, 1920.

1.-GENERAL

(1)	Estimated population			233,805
(2)	General Death-rate			11.1
(3)	Death-rate from Tuberculosis			0.84
(4)	Infantile Mortality			60
(5)	Number of Dwelling-houses of all classes			50,797
(6)	Number of Working-class Dwelling Houses			
(7)	Number of new Working-class Houses erected	1		50

2.—UNFIT DWELLING-HOUSES.

I.--Inspection.

at inspection.	
 (1) Total number of dwelling-houses inspected for housing defects (under Public Health or Housing Acts) 	7,582
(2) Number of dwelling-houses which were inspected and recorded under the Housing (Inspection of District) Recurdations, 1910.	
(3) Number of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for	_
(4) Number of dwelling-houses (exclusive of those referred to	
under the preceding sub-heading) found not to be in all respects reasonably fit for human habitation	40
II.—Remedy of Defects without Service of formal Notices.	
Number of defective dwelling-houses rendered fit in conse- quence of informal action by the Local Authority or	
their officers	
III.—Action under Statutory Powers.	
A. Proceedings under Section 28 of the Housing, Town Planning, etc., Act, 1919.	
(1) Number of dwelling-houses in respect of which notices	
(2) Number of dwelling-houses which were rendered fit :	40
(a) by owners	31
(b) by Local Authority in default of owners	9
(3) Number of dwelling-houses in respect of which Closing	
Orders became operative in pursuance of declara- tions by owners of intention to close	
B. Proceedings under Public Health Acts.	
 (1) Number of dwelling-houses in respect of which notices were served requiring defects to be remedied (0) Number of dwelling-houses in respect of which notices 	2928
(2) Number of dwelling-houses in which defects were remedied—	

2928

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REPORT OF THE MEDICAL OFFICER OF HEALTH

- C. Proceedings under Sections 17 and 18 of the Housing, Town Planning, etc., Act, 1909.
 - (1) Number of representations made with a view to the making of Closing Orders
 - (2) Number of dwelling-houses in respect of which Closing Orders were made
 - (3) Number of dwelling-houses in respect of which Closing Orders were determined, the dwelling-houses having been rendered fit
 - (4) Number of dwelling-houses in respect of which Demohtion Orders were made
 - (5) Number of dwelling-houses demolished in pursuance of Demolition Orders

3.—UNHEALTHY AREAS.

Areas represented to the Local Authority with a view to Improvement Schemes under (a), Part I., or (b), Part II., of the Act of 1890 :—

	Name of					Portsea & Vollvr Street
(2)	Acreage					
		of working-cl				 73
(4)	Number	of working-cla	ass persons	to be di	splaced	 310
		and the second				

4.—Number of houses not complying with the building byelaws erected with consent of Local Authority under section 25 of the Housing, Town Planning, etc., Act, 1919

5.—Staff engaged on housing work with, briefly, the duties of each officer

.. Duties divided amongst all Sanitary Inspect's

WATER SUPPLY.—The public Water Supply has maintained its character both as regards quality and quantity. Since the installation of the sand filter beds on Portsdown Hill there have been no grounds for complaint, and I have no doubt whatever that the efficient filtration of the water has been an important factor in improving the general health conditions of the Borough. The results of the monthly chemical analysis of the supply by the Public Analyst are given in Table XX.

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F	

TABLE OF ANALYSES OF PUBLIC WATER SUPPLY DURING 1920 BY THE PUBLIC ANALYST.

(Results expressed in parts per 100,000)

Remarks	Bright, clear and colourless.—This analysis indicates the water is in	good condition. do.	do.	do.	do.	do.	do.	do.	do.	do.	do.	do.	
Oxygen absorbed in 4 hours at 37° C.	.0067	900.	-012	.026	IIN	IIN	IIN	IIN	IIN	.01	IIN	Nil	
Albu- minoid or Organic Ammonia	.0024	·0034	·004	.0026	100.	.0018	.0016	.003	.002	.003	.002	·0016	
Free or Saline Ammonia	100.	·008	.001	.001	IIN	IIN	Nil	liN	liN	liN	•006	·0004	
Total Hardness	22.8°	22.4°	22 · 0°	$21 \cdot 0^{\circ}$	22.4°	21.0°	22.0°	22.8°	22.4°	22.4°	21.6°	23 · 0°	
Nitrogen as Nitrates	·31	.40	.28	.28	.32	-37	•33	•33	.40	•36	.35	•34	
Chlorine	1.6	1.6	1.6	1.6	1.6	1.8	1.7	1.6	1.6	1.6	1.6	1.6	
Volatile Solid Residue	2.0	5.0	2.0	1.8	1.0	2.0	1.5	2.5	5.0	2.0	2.5	2.0	
Total Solid Residue	29-0	30.0	28.8	28.8	29.0	28.5	29.8	0.05	30.5	30.5	30.0	30.8	
Source	Co.'s Main, Arundel St.	do.	do.	do.	do.	. do.	do.	do.	do.	do.	do.	do.	
Date 1920	Jan. 22	Feh. 17	Mar. 13	April 15	May 20	June 22	July 20	Aug. 23	Sept. 22	Oct. 21	Nov. 23	Dec. 13	-

REPORT OF THE MEDICAL OFFICER OF HEALTH

65

FACTORY AND WORKSHOP ACT.—Workshops and homes of out-workers have been inspected as far as possible, and an account of the insanitary conditions discovered during the course of inspections will be found in the following tables :

FACTORIES, WORKSHOPS, WORKPLACES AND HOMEWORK.

		Number of	
Premises	Inspections	Written Notices	Prosecu- tions
FACTORIES (Including Factory Laundries)	175	17	-
WORKSHOPS (Including Workshop Laundries)	1954	120	-
WORKPLACES	495	75	-
TOTAL	2624	212	-

I.-INSPECTION.

	Nu	umber of 1	Defects	Number
Particulars	Found	Reme- died	Referred to H.M. Inspector	of Prosecu- tions
Nuisances under the Public Health Acts : Want of Cleanliness Want of Ventilation Overcrowding Want of drainage of floors Other Nuisances Samtary Accommodation	43 113 4 	43 I II3 4 3	1111111	111111
Offences under the Factory and Workshop Act : Breach of special sanitary requirements for bakehouses (ss. 97 to 100)			_	-
TOTAL	164	164	_	-

2.-DEFECTS FOUND.

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		0	OUTWORKERS'	DRKE	RS'EL	LISTS.	SECTION	0N 107		05	OUTWORK IN UNWHOLESOME	IN	INFE	OUTWORK IN INFECTED PREMISES	MISES
	Li	Lists received from Employers	ived fi	rom E	mploye	rs	Notices	Prosecutions	tions	PREN	PREMISES, SEC. 108	. 108	SEC	SECTIONS 109	109, 110
NATURE OF WORK	Twice	Sending Twice in the year	year	Once	Sending Once in the year	year	on Occu-	Failing							.te
		Outworkers	rkers		Outworkers	rkers	piers as to	-	to					Orders	Prose-
	Lists	Con- tractors	men Work-	Lists	Con- tractors	men Work-	keeping or sending lists	permit in- spection of lists	send lists	In- stances	Notices served	Prose- cutions	In- stances	made (S. 110)	cutions (Ss. 109, 110)
Wearing Apparel- (1) ma king, etc,	12	176	408	· 10	3 3		::	::	::	::	::	. : :	::	::	::
Paper, etc., Boxes	:	:	:	1	:	ŝ							-		
	:	:	:	:	:	:	:	:	:	:	:	:		:	:
TOTAL	12	126	408	11	29	90	:	:	:	:	:	:	:	:	:
4REGISTERED	WOR	WORKSHOPS.	DPS.						.õ	-OTHER		MATTERS.			
Workshops on the Register (s. 131) at the end of year	it the er	nd of y		Number	H					Class	50				Number
Bakehouses	:		:	120		Matte	rs notifi	Matters notified to H.M. Inspector of Factories :	f. Inspec	ctor of Fa	ctories :				
Dress and Mantle Makers	:		:	596		Fail	ure to a	Failure to affix Abstract of the Factory and Workshop Act (s. 133)	ract of t	he Factor	y and Wo	orkshop A	tet (s. 133	-	
Milliners	:		:	250		a a	s remed	as remediable under the Public Health Acts, but us remediable under the Public Health Acts, but	r the Pu	blic Healt	h Acts, bu	-	ed by H.A	Reports (of action taken)	
Tailors	:		:	610		Other	er	her	DITE AIO	WOLKSHOL	. ACL (S. 2	-	sent to m.at. inspector		e : :
Other Workshops	:		:	754		Under	ground	Underground Bakehouses (s. 101) :	es (s. 10	: (1)					
Total number of workshops on Register	m Regi	ster	:	2330	1		Cert	Cortificates granted during the year In new at the and of the wear	anted du	tring the part	rear	:	:		: '

REPORT OF THE MEDICAL OFFICER OF HEALTH 67

NUISANCES IN RESPECT TO WORKSHOPS, WORKPLACES, &c.

Drains Repaired				 	13
,, Cleansed				 	3
Workshops Cleansed				 	23
Bakehouses Cleansed				 	3
Fish-frying Apparatus Cleans	ed			 	2
Laundry Cleansed				 	1
Water Closets disconnected f	rom Wor	kshops		 	3
,, ,, Ventilated		· ::		 	1
Separate Sanitary accommoda	ation pro-	vided		 	3
Water Closets screened				 	1
,, ,, fittings repaire	ed			 	10
Waste Pipes provided				 	1
Ceilings repaired				 	4
Sashes repaired				 	8
Sanitary Ashbin repaired				 	1
Paving repaired				 	8
Spouting repaired				 	12
Floors repaired		944 C		 	13
Roofs repaired				 	17
New W.C. pan provided				 	1
Vards, Stables, etc., cleansed				 	11
Refuse, etc., removed				 	16
Other nuisances in connection	with Wo	orkshops a	abated	 	9

164

SUMMARY OF METEOROLOGICAL STATISTICS, 1919.

Barometer.—The mean barometer pressure for the year was 30.014 inches. The highest observed reading corrected to sea-level was 30.700 on March 3rd, and the lowest 28.936 on March 15th.

Temperature.—The mean temperature in the shade was 51.8° , or 1.0° above the normal.

- MAXIMUM.—The mean maximum temperature in the shade was 57.4°, the highest being 78° on May 24th.
- MINIMUM The mean minimum temperature was 46.1°, the lowest being 22° on January 7th.
- MAXIMUM IN SUN.—The mean maximum temperature in the sun was 96°, the highest being 134° on June 2nd.
- MINIMUM ON GRASS.—The mean minimum temperature on the grass was 41°, the lowest being 22° on December 16th.
- EARTH TEMPERATURE.—The mean temperature at 1 foot below the ground was 52.5°, and that at 4 feet 53.0°.

Bright Sunshine.—The amount of sunshine registered by the Campbell-Stokes Recorder amounted to 1,584 hours. The greatest amount registered on one day was 13 hours 30 minutes, on May 23rd.

Frosts.—The minimum thermometer in the shade, four feet above the ground fell to and below freezing point on 14 days, and that on the ground on 60 occasions.

Humidity.—The mean humidity of the air (Saturation 100) was 85.

Rainfall.—The total rainfall was 28.0 inches. The greatest fall of rain in 24 hours was 1.01 inches, on July 21st.

Snow .- Snow fell on three occasions.

Thunder and Thunder Storms occurred on four occasions.

PORTSMOUTH

ABSTRACT OF METEOROLOGICAL OBSERVATIONS

	Barometer				TEMP	ERATU	JRE			
DATE	reduced to Sea Level and 32°F.			IN	SHADE			IN SUN	ON G	RASS
Week ending	Mean 9 a.m.	Mean 9 a.m.	Mean Max.	Mean Min.	Mean of Max. and Min.	Highest Max.	Lowest Min.	Black Bulb in vacuo. Mean	Mean Min.	Lowest t Min.
Jan. 3	29.616	37.1	41	32	37.1	42	29	56	28	26
,, 10	29.945	37.8	$44 \cdot 1$	30.8	37.5	51	22	67.4	28.7	23
,, 17	30.129	46.8	$50 \cdot 4$	43-4	47.0	53	36	71.4	38.5	30
,, 24	30.192 29.957	$45 \cdot 0$ $43 \cdot 5$	$49 \cdot 1$ $49 \cdot 5$	41.1	45.0 43.5	51 52	33 33	_65·7 69·3	36.8 32.8	28 28
,, 31 Feb. 7	30.523	45.4	49.5	$37.5 \\ 40.7$	45.5	53	36	72.7	35.2	28
,, 14	30.235	45.7	50	40.4	45.2	54	32	78.4	35.1	27
,, 21	30.048	44.3	49.7	40.7	45.2	55	37	80.8	35.1	32
,, 28	30.312	$43 \cdot 5$	49	39	49.8	54	34	85	32	27
March 6	30.216	44.6	52.1	39.8	46	56	29	85	36	24
,, 13 ., 20	30·128 29·934	41 44·4	48 54	$35 \cdot 8$ 39 \cdot 6	42.8 46.9	53 60	30 36	95 100	$31 \cdot 1 \\ 34 \cdot 8$	24 30
07	30.115	49.5	55	43	40.5	59	38.5	100	52.8	33
April 3	29.603	49	54.9	44.9	49.8	61.5	41	103	42.5	37
,, 10	29.832	49.3	55.1	45	50.2	61	40	104	41.5	37
.,, 17	29.498	$51 \cdot 0$	$55 \cdot 4$	46.1	51.1	57	45	104.5	$44 \cdot 4$	40
,, 24	30.060	50	54.7	44	49	60	40	105	41.8	37
May 1	29.835	50	55·5 57·7	44 45.5	49.8 51.6	58 60	37 39	$112 \cdot 1$ 114 · 3	$41 \cdot 8$ $43 \cdot 8$	36 39
,, 8 ,, 15	$ \begin{array}{r} 30 \cdot 201 \\ 30 \cdot 193 \end{array} $	52 · 55	63.7	45.5	55.5	67	42	121.1	43.8	40
,, 22	29.862	55.5	60.8	48.5	54.7	67	45	117.8	44.8	41
,, 29	30.000	61.8	68.8	55	62	78	48.5	124.7	49.5	42
June 5	30.184	$57 \cdot 3$	66.9	50.6	58.7	77	42	126.1	$48 \cdot 1$	42
,, 12	$29 \cdot 946$	$55 \cdot 2$	61.3	50	55.8	64	45	115.1	47.5	43
,, 19	29.925	60	66.2	53.6	59.8	69.5	50.5	123	$50 \\ 51 \cdot 4$	48 49
,, 26 July 3	$30 \cdot 159$ 29 · 923	$62 \cdot 2$ $60 \cdot 8$	$68 \cdot 1 \\ 63 \cdot 2$	55·9 57·3	$61 \cdot 2$ 61	72.5 68	53 55	121 113	53.5	51
10	29.836	57.1	62	53.3	57.5	66	50	111	48.8	48
,, 10 ,, 17	30.005	62.2	64.2	55.7	61.4	69	53	123	51	49
,, 24	30.005	60.8	67	55.4	61.2	70	50	113	49.5	47
,, 31	29.956	$58 \cdot 4$	64	51.7	57.8	69	47	111.5	47	42
August 7	29.864	60.2	65.7	55.1	60.3	68	52	122	50	48
,, 14	$30 \cdot 159 \\ 30 \cdot 093$	61·2 57·9	68·4 65	53·8 52·2	61·1 58·6	74 71	52 45	117 113·8	49 46·7	44 42
00	30.033	57.3	64.2	50.8	57.5	61.5	49	111.8	48.7	47
,, 28 Sept. 4	30.155	57.1	64.0	50.8	57.4	70	47	109.4	46.4	40
,, 11	30.124	59.5	$67 \cdot 2$	52.8	60	71	46	117	45.1	36
,, 18	29.864	58.2	64.6	51	57.6	68.5	45	112	47.5	40
,, 25	30.009	54.5	61.7	49.7	55.7	64	47	107	45.4	41
Oct. 2 9	29.952	56.2	63.2	52.1	57.7	68	49 52	103·4 96·8	$46.5 \\ 50$	44 45
,,, 16	29.064 29.979	59·8 57	$65 \cdot 5$ $62 \cdot 8$	55.8 52.4	61·4 57·6	74 65	49	96.5	45.8	45
	30.037	51.4	57.5	46.4	52	61	43	90.7	40.4	35
,, 23 ,, 30	30.129	49.8	57.7	42.0	49.9	61	41	94.8	35	31
Nov. 6	29.775	$50 \cdot 2$	49.6	38.3	44	56	33	77	31.7	24
,, 13	30.300	49.5	54.8	43.3	49	56	37	74.1	36.1	31
,, 20	30.152	50.5	54.5	45.1	50	58	38	80	38	27
,, 27 Dec. 4	30.390 29.928	44·3 48·7	$51 \cdot 2 \\ 52 \cdot 7$	$38 \cdot 2 \\ 43 \cdot 8$	44.7 48.2	56 56	34 39	79·3 72	$30.5 \\ 37.2$	24 32
11	29·928 30·218	39.5	43.2	43.8	48.2	48	33	61.1	30.8	26
19	30.219	32.5	35.8	29.9	32.8	40	27	48	27.2	22
,, 25	29.748	44.0	48.8	37.5	42.9	53.5	35.5	63.1	33.4	31
							1	1		1

AND SOUTHSEA.

during the 52 weeks ending January 1st, 1921.

								W	INI	D	9 a.	.m.				RA	IN FALL	
Mean arth grou	below	Wet Bulb	Humi- dity	Brig Suns	ght	Amount of Cloud	1	vu	mbo	er	of 1	Da	ys		Total	No. of days 0.01	Greatest fall in	Date of
ft.	4 ft.	Mean 9 a.m.	Mean 9 a.m.	Stol	ces)	Mean 9 a.m.	Calm	N TO	E.	i s is	i s	S.W.	W.	W.W	(Ins.)	inch or more rainfall	24 hours	
			1	hrs.	mins.				+	1	+	1				1	1	
1	46	36	87	5	30	6.6	1.	÷	. 1	1	1		3	1		3	·06	Jan. 3
8.3	$44 \cdot 8$ $44 \cdot 6$	$35 \cdot 9$ $45 \cdot 4$	83 90	20	50 0	5·1 8·5			2.	• •	11		5 1		1.16 .50	4	·77 ·17	,, 11 & 13
4.3	44.5	43.8	91	9	25	7.1	1	1	1				5	li	.21	1	.09	,, 20
2.8	46	42.5	92	17	40	5.8	2.				. 1		4		1.67	7	·61	,, 29
-4	45.8	44	89	14	5	7.1			1	1	1				·10	1	·10	Feb. 4
5	46	44.4	90	12	0	6.4							5 2		·32	5	·19	,, 10
4.8	46.1	43.3	92	19	40	7.8			1.		3				.07		.03	24
5	45 46·1	42 43·9	87 94	31 22	50 15	8.0	'i.		2.		$\frac{2}{1}$.			1 i		5	•16	Mar. 3
3.5	46.2	39.2	82	33	30	7.1			1.		1		2 2	-	.39	4	·20	,, 8&9
15	46	42.5	85	38	50	5.4							2 3			3	·42	,, 14
17.5	47.3	47.6	85	38	30	3.7	1.				2 1	1 3	3		·33	3	·19	,, 26
50	48.6	44.5	88	25	5	7.7		• •	. 1	-	1 1		1	3		5	•14	,, 31
50 51 · 8	49	47.5	87	15	40	7.9	1	1.	•	1.			3	1	·27 1.06	6	·09 ·39	April 5 ., 14
50.5	50 50·8	49·3 48	88 84	26 20	10 10	8.5		• •	· · ·	•	3		4 2 1	• •	-52	5	•23	00
51.8	50.9	46.8	76	46	45	4.2		•	-	i :	1.1	1	2 2	2		5	.15	May 1
52.5	51.8	48.4	75	47	10	5.7			1	11			5 1			4	•31	,, 6
55.2	52.5	51.7	79	64	35	2.8			2 .	. :	2	1	1 2		.11	3	·06	,, 15
57 . 1	53.9	52.1	78	55	40	4.3			1.						· 19	2	·12	,, 17
31.2	55.6	58.8	82	52	15	5.0		1.0	2 1	2.	. 1	1.1			·31	4	·24	,, 25
51	57.2	$54 \cdot 0$ 52 \cdot 2	79	66 52	30	4.5		4.		• •		1.1	1	2	1.02		.78	June 12
51·1 52	58 58	58.6	82 87	52	30 20	3.5 3.5		•	3.		$\frac{3}{1}$		1	· ;	-26	4	•14	10
64.5	59.8	59	81	54	40	4.2			1.	-	1				.87	2	.83	,, 10
35	60.9	59.2	87	24	5	6.0					1				.69	4	·48	July 3
30.5	$60 \cdot 1$	55.4	89	20	35	8.4			1 .	. :	2 1	1 2	2	1	2.30	6	·78	,, 5
33.3	$60 \cdot 2$	59.1	81	46	35	2.8							7		·41	1	•41	,, 11
34.5	61	58.7	87	46	10	4.0		• •						3		2	1.01	,, 21
61·5		56.1	84	31	10	5.4	•••	• •					4 1			5	·35 ·20	,, 25
33	62 61	57 58·4	80 83	42 55	40 40	4 · 3 4 · 2			i				4 3 1		·30	3	.20	August 4
32.5	61.5	55.3	84	32	30	6.4			1				1 1	5	.57	1	.57	,, 18
59.4	60.3	54	80	40	50	5.7							2			1	·04	,, 22
59.7	60	54.9	85	29	30	6.4		1	1 .							1	·09	Sept. 2
50	60	57.5	87	,34	0	5.7						4	4	3				
9.2	59.5	54.7	90	31	0	5.0		: •					4			5	•63	,, 15
57.5	$58 \cdot 8$ $58 \cdot 6$	52·7 55·7	87 96	27 23	5 50	4 · 2 7 · 8		5.	1 2	; .	: 'j		1		·13 ·59	3	·09 ·35	,, 21 Oct. 1
58	58.0	58.8	93	23	50	5.7				1 .	2		1.		1.13	4	.52	,, 5
57.5	58.1	55.7	91	27	50	5.2			3 2	2	1 1				.83	5	.69	,, 15
54.4	57.5	50.2	82	18	30	7.1		1	2 4	4.								
50.2	56	46.7	79	57	45				5 2	2 .								
7.2	52.2	42.6	85	21	25	4.0		4	1	. :	2				1.42	2	•75	,, 31
7.7	51.7	48.2	90	10	20	0-3	•••	• •			· · ·		1 1			1 2	·04 ·44	Nov. 13
8.9	$44 \cdot 5 \\ 50 \cdot 4$	$48 \cdot 4$ $42 \cdot 5$	85 86	26 29	15 15	5·4 2·8	••••	1	4		$1 \\ 1 \\$	1	2 2	•••	-48 -17	4	-10	
7.5	50.4	42.5	87	10	15 30	7.4	••••		1.	-	1		2 1			5	.35	,, 24 Dec. 1
3.5	49.5	37.8	86	11	5	5.7	7.		1						.12	3	*.08	,, 11
	45.3	31.9	92	3	20	.9		6.							.33	2	* · 24	,, 12
9.1	10 0																·36	,, 23

* Snow

APPENDIX.--TABLE 1.

Vital Statistics of Whole District during 1920 and previous years.

NETT DEATHS BELONGING TO THE DISTRICT.	At all Ages	Number Rate	:	: :	3067 13.20	3125 13.24	3080 12-57	3149 12.81	3284 16-24	2937 14.84	2942 14.81	3647 17-93	2981 13,26	2640 11.29	1 At Census
DEATHS BELON THE DISTRICT	Year age	Rate per 1,000 Nett Births	95	104	127	85	16	85	87	80	11	75	74	60	231,141
NETT	Under 1	Number	556	603	131	466	545	486	433	418	326	361	383	393	:
TRANSFERABLE DEATHS.	of Resi-	regis- tered in the District	:	:	72	81	82	86	55	62	58	107	93	55	Total population at all ages
TRANSFERA DEATHS.	of Non-	regis- tered in the District	:	:	106	97	98	125	173	112	197	190	118	120	Total population at all ages
EATHS RED IN	TRUCT.	Rate	13.62	13.14	13.40	13.31	12.63	12.96	16.81	15.09	15.51	18.33	13.37	11.10	al popula
TOTAL DEATHS REGISTERED IN	THE DISTRICT.	Number	3045	2995	3101	3141	3096	3176	3405	2987	3081	3730	3006	2705	Tot
	.t	Rate	26.40	25.41	24.99	23.60	24.34	23.17	24 - 44	24.09	20.71	20.90	21.94	25.85	
BIRTHS.	Nett.	Number	:	:	5775	5570	5966	5678	4949	5184	4584	4774	5139	6520	
		on- corrected Number	5820	5801	5787	5605	5939	5714	4975	5186	4613	4778	5300	6508	and
	Population	Middle of each Year.	223,436	227,821	232,221	236,732	241,256	245,827	202,441	197.843	198,527	203,396	224,846	233,805	Area of District in acres fland and
		YEAR	1909	1910	1161	1912	1913	1914	1915	1916	1917	1918	6161	1920	rea of Dis

72

REPORT OF THE MEDICAL OFFICER OF HEALTH

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		Cases		notified in whole District.	hole Di	strict.				Total (Total Cases notified in each Locality.	ty.	n each		Total	
				At Ag	Ages-Years	ars			1	01	8	+	2	9	Cases Removed	
Notifiable Disease	At all Ages	Under 1	1 to 5	5 to 15	15 to 25	25 to 45	45 to 65	65 and up- wards	Ports-	Portsea	Landport North	Landport Central	-bitd Mid-	southea	to Hospital	
Small-pox	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	
Malaria	21	:	:	:	0	17	1	:	:	8	5	9	9	-	:	
Diphtheria (including Membranous Croup)	684	+	181	379	59	57	4	:	12	28	252	187	148	57	598	
Erysipelas	79		61	9	10	30	26	10	61	+	29	28	15	1	1	
Scarlet Fever	445	3	107	270	46	61	:	:	60	13	106	152	137	34	382	
Enteric Fever	27	:	61	œ	2	5	4	-	:	61	2	13	4	1	12	
Influenzal Pneumonia	134	1	20	22	18	46	21	9	61	12	25	58	31	9	1	
Puerperal Fever	9	:	:	;	1	ic.	:	:	-	:	-	67	¢1	:	I	
Cerebro-spinal-Meningitis	8	1	:	61	4	-	:	:	:	:	60	4	-	:	80	
Encephalitis Lethargica	+	:	-	1	-	:	-	:	:	:	61	:	1	1	-	
Ophthalmia Neonatorum	135	135	:	:	:	:	:	:	3	12	:	:	30	3	1	
Pulmonary Tuberculosis	576	:	6	84	128	258	16	9	10	41	144	184	155	42	184	
Other forms of Tubercu- losis	159	. 6	19	73	31	27	9	:	:	8	56	54	38	3	19	
TOTALS	2278	147	341	845	301	467	154	23	33	123	673	732	568	149	1204	
Isolation Hospitals or Sanatoria	s or Sant	atoria	6i 6i	Milton Small-f The La	Hospit box Hos ngstone	al for In spital at	nfection t Elson mption	Milton Hospital for Infectious Diseases. Small-pox Hospital at Elson (by arrangement with Gosport and Alverstoke U.D.C. The Langstone Consumption Hospital.	ses. angeme al.	ent with	1 Gospo	rt and	Alversto	oke U.J	D.C.	

REPORT OF THE MEDICAL OFFICER OF HEALTH

73

APPENDIX.-TABLE III.

Causes of, and Ages at, Death during the Year 1920.

							of "Re out the			Total Deaths whether of "Residents"
Causes of Death	All ages	Under 1 year	1 and under 2 years	2 and under 5 years	5 and under 15 years	15 and under 25 years	25 and under 45 years	25 and under 65 years	65 and up- wards	or "Non- Residents "
1	2	3	4	5	6	7	8	9	10	11
All Causes—Certified Uncertified	$\begin{array}{c} 2630 \\ 10 \end{array}$	391 2	91 	80 	107 	92 	368	603 3	898 5	746
Enteric Fever Small-pox Measles Scarlet Fever Whooping Cough Diphtheria and Croup Influenza Erysipelas Phthisis Pulm. Tuberculosis Tubercular Meningitis Other Tuberculous Diseases Cancer, malignant Disease Rheumatic Fever Meningitis Organic Heart Disease Bronchitis Pneumonia (all forms) Other diseases of respiratory organs	$\begin{array}{c} 2\\ 3\\ 3\\ 41\\ 40\\ 60\\ 4\\ 203\\ 19\\ 37\\ 302\\ 10\\ 18\\ 335\\ 180\\ 184\\ 34\\ \end{array}$		$ \begin{array}{c} $	12 1 10 12 4 3 1 1 19 1	$ \begin{array}{c} 1 \\ \\ 2 \\ 24 \\ 3 \\ \\ 6 \\ 3 \\ 4 \\ 3 \\ 6 \\ 13 \\ 1 \\ 3 \\ 2 \\ 2 \end{array} $	··· ··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·	1 19 110 1 11 31 2 42 5 19 8	 	 13 2 3 123 1 59 89 22 9	 9 3 2 36 2 1 74 9 13 98 3 7 78 20 27 2
Diarrhoea & Enteritis Appendicitis & typhlitis Cirrhosis of Liver Alcoholism Nephritis and Bright's	9 10 3	17 	6 	2	2 3 	i 	$\begin{array}{c}1\\1\\2\\2\end{array}$	5 3 6 1	3 1 2 	7 7 4 2
Disease Puerperal Fever Other accidents and diseases of Preg-	61 2	2			2	2	82	30	17	17 2
nancy & Parturition Congenital Debility and Malformation, in- cluding Premature	14		··· ,			4	10			10
Births	163 62 774	162 12 48	2 9	 4 8	1 4 18	 2 11	 8 85	 10 156	 20 439	20 20 273
Unknown TOTALS	0010	1 393	 91	1 80		 92	368	606	 903	746

APPENDIX.-TABLE IV. Infant Mortality.

Nett Deaths from stated causes at various Ages under 1 Year of Age.

CAUSE OF DEATH.		Under 1 week	1-2 weeks	2-3 weeks	3-4 weeks	Total under 4 weeks	4 weeks and under 3 mths.	3 months and under 6 mths.	6 months and under 9 mths.	9 months and under 12 mths.	Total Deaths under One Year
All Causes—Certified Uncertified		98 1	27	22	19 	166 1	94 	53 1	49 	29 	391 2
Small-poxChicken-poxMeaslesScarlet FeverDiphtheria and CroupErysipelasTubercular MeningitisAbdominal TuberculousOther Tuberculous DiseasesMeningitis (not Tuberculous)ConvulsionsI,aryngitisBronchitisPneumonia (all forms)DiarrhoeaSyphilisSuffocation, overlyingRicketsSuffocation, overlyingInjury at BirthAtelectasisPremature BirthAtrophy, Debility and MarasmuOther Causes	··· ·· ··· ··· ··· ·· ··· ··	$\begin{array}{c} & & & \\ & & & & \\ & & & \\ & & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\$	$\begin{array}{c} \vdots \\ 2 \\ 2 \\$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} \ddots & \ddots & \ddots \\ 1 & \ddots & \ddots & \ddots \\ \ddots & \ddots & \ddots & \ddots \\ 1 & 1 & \ddots & \ddots \\ 1 & \ddots & \ddots & \ddots \\ 6 & 3 & 3 \end{array}$	$\begin{array}{c} \ddots \\ \cdot \\ 2 \\ 6 \\ \cdot \\ 8 \\ 3 \\ 1 \\ \cdot \\ 1 \\ 3 \\ \cdot \\ 1 \\ 5 \\ 4 \\ 11 \\ 845 \\ 12 \\ 12 \\ \end{array}$	$\begin{array}{c} \ddots \\ & 1 \\ & 5 \\ & 2 \\ 1 \\ & \ddots \\ & 5 \\ & 22 \\ 15 \\ 2 \\ & \ddots \\ & 6 \\ & 4 \\ & \ddots \\ & 3 \\ 10 \\ & 9 \\ 9 \end{array}$	$\begin{array}{c} \cdot & \cdot & 2 \\ \cdot & 4 \\ \cdot & \cdot & 3 \\ \cdot & \cdot & \cdot & 3 \\ \cdot & \cdot & 5 \\ 15 \\ 2 \\ 3 \\ 2 \\ 1 \\ \cdot & 3 \\ \cdot & \cdot & \cdot & 7 \\ 4 \end{array}$	$\begin{array}{c} \ddots \\ 3 \\ \cdot \\ 1 \\ \cdot \\ 2 \\ 1 \\ 1 \\ 1 \\ 3 \\ \cdot \\ 5 \\ 19 \\ 4 \\ 2 \\ \cdot \\ \cdot \\ \cdot \\ 1 \\ \cdot \\ 2 \\ 4 \end{array}$	$\begin{array}{c} & \ddots & 1 \\ & \ddots & 3 \\ & 2 \\ & 2 \\ & 1 \\ & 2 \\ & 2 \\ & 1 \\ & 2 \\ & 2 \\ & 6 \\ & 5 \\ & 2 \\ & 1 \\ & \ddots \\ & \ddots \\ & \ddots \\ & 3 \end{array}$	$\begin{array}{c} & \ddots & \\ & & 7 \\ & & 14 \\ & 2 \\ & 8 \\ & 2 \\ & 1 \\ & 4 \\ & 19 \\ & & 46 \\ & 57 \\ & 11 \\ & 6 \\ & 3 \\ & 10 \\ & & 8 \\ & 5 \\ & 4 \\ & 15 \\ & 94 \\ & 43 \\ & 32 \end{array}$
Te	otals	99	27	22	19	167	94	54	49	29	393

Nett Births in the year—Legitimate 6233 Illegitimate 287



Milton Hospital.

REPORT OF THE MEDICAL SUPERINTENDENT.

To the Chairman and Members of the Hospital Committee.

GENTLEMEN,

I have the honour to submit my Annual Report for the year ending 31st December, 1920.

The number of admissions was 1,113, as against 946 in the previous year.

The number of deaths was 63, discharged 858; remaining 192. The combined mortality in respect of all deaths was 5.6 per cent.

SCARLET FEVER.—Admitted 382; last year 250; Discharged 282; died 3; remaining 98. Two deaths were from the septic type, the third was from cerebral meningitis occurring in a convalescent patient. The fatality rate was 0.7 per cent.

DIPHTHERIA.—Admitted 598; last year 520. Discharged 500; died 36; remaining 65. The fatality rate was 6 per cent. In the majority of deaths the patient was admitted in an advanced stage of the disease, serum treatment which is so beneficial in the early stages having no effect. Tracheotomy was performed in 6 cases, 2 recovered 4 died; in the latter relief was obtained, the patients dying of toxaemia.

ENTERIC FEVER.—Admitted 12; discharged 7; remaining 4; died 1; this patient's death was due not to enteric fever, but to tuberculosis of the intestines.

CEREBRO-SPINAL-MENINGITIS.—Admitted 8; discharged 5; died 3; the mortality rate being 37.5 per cent. The meningococus was not found in the cerebro-spinal fluid in any case; the deaths were due 1 to meningitis, 1 to cerebromeningitis, and 1 to cerebral tumour and meningitis.

ENCEPHALITIS LETHARGICA.—Admitted 1; died 1. The diagnosis in this case was not confirmed. A post mortem examination showed the presence of cerebral haemorrhage.

MEASLES.—Admitted 16; discharged 15; died 1. The mortality rate was 6.6 per cent.

TUBERCULOSIS.—Admitted 96; discharged 51; died 28; remaining 25. The mortality rate was 29 per cent. The majority of the patients admitted were chronic and advanced.

ILLNESS OF STAFF.—Three Nurses contracted scarlet fever; 1 diphtheria; 2 ward maids scarlet fever and one diphtheria. All recovered.

My thanks are again due to the Matron and Nursing Staff for valuable assistance.

JAMES MCGREGOR,

Medical Superintendent.

TABLE XXIII.

MILTON HOSPITAL.

				1	AGES				1
DISEASES	0 to 1	1 to 5	5 to 15	15 to 25	25 to 55	35 to 45	45 to 55	55 and over	TOTAL
Small-pox									
Scarlet Fever	. 1	54	284	27	14	2			382
Typhoid Fever		3	2	4	2	1			12
Diphtheria	4	130	377	58	20	9			598
Cerebro-spinal Fever .			4	3	1				8
Measles		8	7		1				16
Encephalitis Lethargica							1		1
Tuberculosis			3.	25	31	23	14		96
	5	195	677	117	69	35	15		1113

NUMBER OF PATIENTS ADMITTED. during the Year 1920.

TABLE XXIV.

NUMBER OF PATIENTS ADMITTED to the MILTON HOSPITAL (Small-pox Patients-Langstone Hospital) for the years 1883 to 1920.

Year	Small-pox	Scarlet Fever	Enteric or Typhoid	Diphtheria	Measles	Other Diseases	Totals
1883	5	1			1		7
1884	1	13	2	4	2		22
1885	8	16	6	6	1		37
1886	7	29	66	11	11	1	125
1887	20	56	37	27	4	3	147
1888	4	120	35	23	8	8	198
1889	6	278	48	18	5	8	363
1890	1	384	114	69	1	7	576
1891		180	51	52	22	18	323
1892		532	81	27		5	645
1893	6	503	94	12	6	5	626
1894	22	238	53	38	22	9	382
1895		177	83	46	15	25	346
1896	6	354	76	38	10	17	499
1897	1	413	102	37	6	11	563
1898		436	92	118	6	10	662
1899	1	333	96	225		2	657
1900		198	157	211	1		567
1901	1	270	101	179			542
1902	8	339	105	197			649
1903	3	572	70	211		2	858
1904		340	73	220		3	636
1905	10	274	57	198			539
1906	1	243	72	239			555
1907		202	109	235			546
1908		343	102	284	1	1	731
1909		631	96	354	1		1082
1910		850	114	336			1300
1911		635	70	436			1141
1912		702	71	782			1555
1913		730	55	652			1437
1914		469	110	615			1194
1915		630	33	684		27	1374
1916		340	47	589		35	1011
1917		383	21	340	4	48	796
1918		277	15	483	25	27	827
1919		250	10	520	10	156	946
1920		382	12	598	16	105	1113

Port Sanitary Authority.

To the Chairman and Members of the Portsmouth Port Sanitary Authority.

GENTLEMEN,

During the year 5,259 vessels arrived at the Port ; by far the majority of these, 4,789, were small trading vessels, trading between Portsmouth and places in the Solent, and 350 arrived from other places on the coast. Only 120 arrived from foreign ports. The nationality of the vessels was as follows :—

British 5,234, Swedish 2, Danish 3, French 9,

Belgian 1, American 1, Norwegian 4, Dutch 4, Russian 1.

About 30 per cent. of these were visited by the Port Sanitary Inspector; in 29 instances sanitary defects were found, all of which were remedied before leaving the port. No cases of notifiable infectious disease were found on board. Information as regards the treatment centre for any persons suffering from venereal diseases has been given where necessary

I have the honour to be, Gentlemen,

Your obedient servant,

A. MEARNS FRASER, M.D.

Medical Officer of Health to the Port of Portsmouth.

Report of the Chief Inspector of Nuisances.

To the Chairman and Members of the Health and Housing Committee.

GENTLEMEN,

I beg to submit my thirty-fifth Annual Report as Chief Inspector of Nuisances of the work carried out by this Department during the year.

2,928 Preliminary Notices and 1,074 Statutory Notices were served for the abatement of Nuisances under the Public Health Act, 1875, etc., compared with 2,552 and 896 respectively for the year 1919.

Forty notices were also served under Section 28 of the Housing, Town Planning, etc., Act, 1919, to render houses in all respects reasonably fit for human habitation.

The Increase of Rent and Mortgage Interest (Restrictions) Act, 1920, considerably added to the work of the Department.

On the application of the Magistrates, the Committee requested me to have an examination made of the sanitary condition of all the Licensed Houses in the Borough. This also occupied considerable time and was not completed at the end of the year.

Having been appointed by the Council to examine the sanitary condition of all theatres, music halls, and other places of public entertainment, I have done so and reported the results to the Committee.

The following summary will shew the amount of work which has been carried out under the supervision of your officers, viz. :—

DRAINAGE DEFECTS.

Drains cleansed			 394
Drains repaired or relaid			 170
Drains ventilated or ventilating shafts r	aised or	repaired	 15
Soil pipes ventilated or repaired			 13
Soil pipes removed outside houses			 2
Waste or rain-water pipes disconnected	from dra	ains	 15
New water-closet pans provided			 111
Pedestal wash-down pans provided			 39
Water-closet fittings repaired			 347
Flushing apparatus or water supplied to) water-c	losets	 98

82 REPORT OF THE MEDICAL OFFICER OF HEALTH

Separate sanitary convenie	nces supplie	d to works	shops	 3
Separate sanitary convenie		d to licens	ed premises	 16
Waste pipes provided or ta	rapped			 143
Water-closets cleaned				 13
Water-closets ventilated				 5
Urinals constructed]		 15
Flushing apparatus fixed t				 42
Anti-back flooring trap pro	ovided		🔨	 1

SANITARY DEFECTS IN DWELLING-HOUSES & WORKSHOPS.

Rain-water spouting cleaned,	provided or repaire	ed		682
Roofs repaired				1057
Weather slating repaired, or o	utside walls protec	ted	÷ .	161
Cellar coverings repaired				16
Floors, stairs or doors repaired				700
Sashes, lines or frames repaire	d			987
Space under floors ventilated				57
Damp courses repaired or pro-	vided			18
Houses or parts of houses clea	unsed or distempere	ed		693
Walls and ceilings repaired				612
Sanitary dustbins provided				6
37 1				499
Overcrowding in dwelling-hou				44
Water supply laid on to dwell				29
Foundations of houses concret				11
Workshops cleansed or distem				23
	pered it			13
Spouting of workshops repaire				12
Fish-frying apparatus cleansed				2
Screen provided to water-close			••	4
Water-closets disconnected fro		•••	••	3
Other nuisances in connection				195
Other nuisances in connection			• •	9
	-	••		
Cooking ranges repaired	•• ••	• •		145
Firegrates repaired			• •	107
Coppers repaired			• •	170
Glazed scullery sinks provided	•• ••	• •	• •	29
	constant and building as	~		
	SIVE MATTER, a	&c.		
Manure and refuse removed				21
Animals removed				24
Bedding cleansed				18
Cesspits cleansed				2
Stagnant water removed				7
SLAUGHTER-HOUSES,	COWSHEDS, BA	KEHOUSI	ES, &c.	
				4
Cowsheds cleansed		••		9
Yards, stables, sties, etc. cleans				
				5
Bakehouses cleansed				5 7
Manure pits provided				/
	BYE-LAWS.			
Notices under Slaughterhouse	Bye-laws complied	with		3

Notices und	er Slaughterhouse Bye-laws complied with .	. 3
Notices und	er Nuisance Bye-laws complied with	. 3
Notices und	er Common Lodging-house Bye-laws complied with .	. 5

The following articles of food have been destroyed as unfit for the food of man :—

unit for the food of man.		
Carcases of Beef and Offal 2	Salmon (wet)	cwt. 4
" Mutton 164	,, ,,	cases 2
" Lamb 18	Salmon (dried)	boxes 4
" Pork 1	,,	tins 21
Pieces of Pork 1bs. 60	Bream	boxes 2
Quarters of Beef 31	Gurnet	kits 1
Pieces of Beef lbs. 2517	Mixed Fish	cwt. 11, qrs. 1
Pieces of Mutton lbs. 5239	o", "· ··	baskets 2
Pieces of Lamb lbs. 25	Smelts	boxes 3
Corned Beef tins 300	Shrimps	baskets 19
Unborn Calves 28	,,	boxes 3
Bullocks' Livers 288	,,	stone 6
,, ,, boxes 2	,,	kits 3
Tripe cases 73	Shrimps	bags 12
Tripe lbs. 16206	Plaice	kit 1
Ox Tails 1bs. 103	Trout	boxes 1
Ox Tongues tins 14	Lemon Soles	boxes 11
Ox Kidneys Ibs. 238	77'	tins 1
202223 20	0.10.1	boxes 1
Ox Hearts cases 5		lbs. 16
Ox Lungs 3	Herrings	tins 6
Sausages 1bs. 10	Cray-Fish	tins 8
Sheeps' Plucks 6	Crab	tins 6
Sheeps' Kidneys 4365	Sardines	tins = 232
,, ,, cases 1	Prawns	tins 14
Colonial Rabbits 1176	Pilchards	tins 2
,, ,, cases 22	Crabs	50
,, ,, 1bs. 89	,,	1bs. 278
Bacon tons 4, cwt. 6, qrs. 3, lbs 2	Lobsters	7
halos 00		lbs. 152
Army Rations tins 2		tins 15
Pork and Beans tins 1	" Mackerel	boxes 47
Herrings barrels 167		gallon 10
,, boxes 26	" ·· ··	. bags 3
,, lbs. 134	Hake	
Whiting stone 12	,,	. boxes 3
,, barrels 1	Whelks	stones 24
Bloaters boxes 117	Sprats	
,, stone 27	,,	
Kippers boxes 909	,,	stone 17
Kippers cwt.16, qrs. 1, lbs. 16	Tomatoes	. tins 243
,,, barrels 1		
Haddock boxes 341	Dates	. boxes 29
HAULUULA DUACS OTI	Dates	
	,,	cwt. 5
Haddock (wet) tons 1, cwt. 5, qrs. 1,	,, Pears	cwt. 5 cases 12
Haddock (wet) tons 1, cwt. 5, qrs. 1, lbs. 7	,, Pears ,,	cwt. 5 cases 12 barrels 18
Haddock (wet) tons 1, cwt. 5, qrs. 1, lbs. 7 Codling (smoked) boxes 140	,, Pears ,, ,,	cwt. 5 cases 12 barrels 18 tins 4
Haddock (wet) tons 1, cwt. 5, qrs. 1, Ibs. 7 Codling (smoked) boxes 140 Codling (wet) boxes 9	,, Pears ,, ,, Apples	cwt. 5 cases 12 barrels 18 tins 4 cases 35
Haddock (wet) tons 1, cwt. 5, qrs. 1, lbs. 7 Codling (smoked) boxes 140 Codling (wet) boxes 9 Filletted Dried Fish boxes 365	,, Pears ,, ,, Apples ,,	cwt. 5 cases 12 barrels 18 tins 4 cases 35 gallons 1
Haddock (wet) tons 1, cwt. 5, qrs. 1, Ibs. 7 Codling (smoked) boxes 140 Codling (wet) boxes 9 Filletted Dried Fish boxes 365 	""""""""""""""""""""""""""""""""""""	cwt. 5 cases 12 barrels 18 tins 4 cases 35 gallons 1 baskets 1
Haddock (wet) tons 1, cwt. 5, qrs. 1, lbs. 7 Codling (smoked) boxes 140 Codling (wet) boxes 9 Filletted Dried Fish boxes 365 ,, ,, ,, stone 23 Pollack stone 7	" Pears " " " Apples " " Plums	cwt. 5 cases 12 barrels 18 tins 4 cases 35 gallons 1 baskets 1 baskets 57
Haddock (wet) tons 1, cwt. 5, qrs. 1, Ibs. 7 Codling (smoked) boxes 140 Codling (wet) boxes 9 Filletted Dried Fish boxes 365 ,, ,, ,, stone 23 Pollack stone 7 Dogfish Ibs. 74	"," Pears "," <td< td=""><td> cwt. 5 cases 12 barrels 18 tins 4 cases 35 gallons 1 baskets 1 baskets 57 tins 19</td></td<>	cwt. 5 cases 12 barrels 18 tins 4 cases 35 gallons 1 baskets 1 baskets 57 tins 19
Haddock (wet) tons 1, cwt. 5, qrs. 1, Ibs. 7 Codling (smoked) boxes 140 Codling (wet) boxes 9 Filletted Dried Fish boxes 365 ,, ,, ,, stone 23 Pollack stone 7 Dogfish lbs. 74 Ling boxes 2	"""Pears"""Apples"CherriesPlumsPlums, PreservedPineapple	cwt. 5 cases 12 barrels 18 tins 4 cases 35 gallons 1 baskets 1 baskets 57 tins 19 tins 18
Haddock (wet) tons 1, cwt. 5, qrs. 1, Ibs. 7 Codling (smoked) boxes 140 Codling (wet) boxes 9 Filletted Dried Fish boxes 365 ,, ,, ,, stone 23 Pollack stone 7 Dogfish Ibs. 74 Ling boxes 2 Skate boxes 2	"," Pears "," <td< td=""><td> cwt. 5 cases 12 barrels 18 tins 4 cases 35 gallons 1 baskets 1 baskets 57 tins 19 tins 18 baskets 47</td></td<>	cwt. 5 cases 12 barrels 18 tins 4 cases 35 gallons 1 baskets 1 baskets 57 tins 19 tins 18 baskets 47
Haddock (wet) tons 1, cwt. 5, qrs. 1, Ibs. 7 Codling (smoked) boxes 140 Codling (wet) boxes 9 Filletted Dried Fish boxes 365 ", ", ", stone 23 Pollack stone 7 Dogfish lbs. 74 Ling boxes 2 Skate boxes 2 ", lbs. 42	"""Pears"""Apples"CherriesPlumsPlums, PreservedPineapple	cwt. 5 cases 12 barrels 18 tins 4 cases 35 gallons 1 baskets 1 baskets 57 tins 19 tins 18 baskets 47 tins 7
Haddock (wet) tons 1, cwt. 5, qrs. 1, lbs. 7 Codling (smoked) boxes 140 Codling (wet) boxes 9 Filletted Dried Fish boxes 365 ",","," stone 23 Pollack stone 7 Dogfish lbs. 74 Ling boxes 2 Skate boxes 2	","Pears","","","Apples","CherriesPlumsPlums, PreservedPineappleGreengages	cwt. 5 cases 12 barrels 18 tins 4 cases 35 gallons 1 baskets 1 baskets 57 tins 19 tins 18 baskets 47

Peaches	 tins	72	Ducks				6
	tins	1	Peas			tins	1
Mixed Tinned Foods	 boxes	13	Cocoa Nuts				400
Meat and Fish Paste	 jars	4632	Onions			bags	28
Condensed Milk	 tins	1670	Carrots			bags	30
,, ,,	 boxes	1	Swedes			loads	1
Eggs	 	3399	Sauce			bottles	16
Eggs, Liquid	 tins	- 34	Ketchup			bottles	6
Cheese	 lbs.	149	Cocoa and Mi	lk		tins	1
Chicken	 	252	Jam			jars	7
Butter	 lbs.	30	Honey			tins	1
Sugar	 lbs.	27	Potatoes			bags	35
Ptarmigan	 	12	,,			tons	1
Greyheads	 	6	Spaghetti		· · · ·	tins	7

GENERAL INSPECTION.

DWELLING HOUSES.—During the year 7,582 houses were examined and 12,997 re-inspections of properties were made whilst work ordered to be carried out was in progress.

COMPLAINTS.—1,889 complaints were made at the office and received attention, compared with 1,471 in 1919. This addition was undoubtedly caused by the Increase of Rent and Mortgage Interest (Restrictions) Act, 1920.

SLAUGHTERHOUSES.—4,173 visits were made to the various slaughterhouses. There were 68 in actual and regular use in Portsmouth and two in the added district of Cosham. They have on the whole been well conducted and kept in a cleanly state.

DAIRIES, COWSHEDS AND MILKSHOPS.—1,587 visits were made to the registered dairies, cowsheds and milkshops. There are only seven cowkeepers, including two at Cosham, registered. With few exceptions the premises have been well kept.

COMMON LODGING HOUSES.—There are now only eight common lodging houses in the Borough and during the year 330 visits were paid to them.

Five notices were served on the occupiers under the Common Lodging House Bye-laws, but it was not necessary to take proceedings against any of the keepers.

WORKSHOPS.—1,462 visits were made to factories and workshops and 497 to outworkers' premises.

BAKEHOUSES.—1,162 visits were made to bakehouses. They have been generally very well kept.

DRAINS.—2,861 old drains were tested or re-tested, and Inspector Turner tested or re-tested 399 drains in connection with new buildings. He also tested 269 fittings of new houses.

84

OCCUPATION CERTIFICATES.—51 occupation certificates with respect to new dwellings as being fit for occupation were issued during the year.

SANITARY CERTIFICATES.—38 certificates respecting the sanitary conditions of the drains and fittings of old dwelling houses were issued.

INFECTIOUS DISEASES.—1,334 cases of infectious diseases were visited and enquiries made and the premises were examined for sanitary defects. 1,508 rooms were disinfected after infectious diseases.

PROSECUTIONS AND FINES.

PUBLIC HEALTH ACT, 1875.—Under the nuisance clauses of this Act proceedings were taken in 19 cases, with the following results :—

E.J.			nce with Magistrates' O nce	rder to ab	ate	Adjourned for six weeks. Work done.
J.E.H.		Non-complia	ince with Notice to al	oate a Nu	uis-	
			55 East Street		•••	Fined £3 and order made for work to be done in six weeks
Do.	•••	Do	107 Surrey Street	••	•••	Defendant ordered to pay costs 11/6.
W.T.	•••	Do	8 Warblington Street	••	•••	Ordered to carry out work in 7 days and to pay 13/- costs
H.B.	•••	Do	9 Highland Street	••		Ordered to carry out work in 7 days and to pay 14/- costs
J.E.H.	•••	Do	102 Blackfriars Road			Fined £4 1s. 6d., including costs and ordered to do work in 21 days
F. & P.		Do	2 Bristol Road	••	•••	Adjourned on two occasions. Work done and costs 9/6 paid
J.E.H.		Non-complia	ince with Magistrates' O	rder to ab	ate	1
						Fined 2/6 a day-Total £4 10s.
C.S.		Non-complia	nce with Notice to abat	e a Nuisai	nce	
		at	67 Green Road		• •	Withdrawn on payment of costs 5/ Work done
G.H.	•••	Do	61 Wingfield Street	••	• •	Ordered to do the work in 14 days and pay £1, inc. costs
M.W.	•••	Do	5 Little Britain Stree	t	••	Withdrawn on payment of costs 4/ Work done
H.J.C.	•••	Do	8 Walker Road			Adjourned for 14 days on pay- ment of costs 14/6. Case
						withdrawn on work being done
Do.		Do	12 Walker Road			Do.
Do.		Do	20 Fairfield Terrace			Do.
H.J.C.		Non-complia	ince with Notice to aba	ate Nuisa:	nce	
		at	21 Fairfield Terrace			Do.
M.S.		Do	10 Bush Street West			Do.
W.P.	• •	Do,	64 East Street		•••	Adjourned for 14 days on pay- ment of 4/- costs. At ad-
						journed hearing defendant was fined £5 and an order was made for the work to be done in 14 days
F.J.S.	•••	Do	38 Orange Street	••	•••	Order made for work to be done in a month and the payment of 16/- costs
J.E.H.		Non-complia	nce with Magistrates' O	order to ab	ate	
Judital			e at 55 East Street		•••	Fined 1/- a day for 88 days.— Total £4 8s. 0d.
				TOTAL F	INE	S AND COSTS $\pounds 27$ 4s. 6d.

SALE OF FOOD AND DRUGS ACT.—Under this Act 8 informations were laid for adulteration of articles of food and drugs.

Six convictions were obtained and penalties amounting to $\pounds 29$ imposed. One case was dismissed on a warranty being pleaded.

MILK AND CREAM RE JULATIONS.—Under these regulations two dairymen were summoned for selling cream without it being properly labelled. They were each fined £5.

I am, Gentlemen,

Your obedient servant,

FRED. L. BELL,

Chief Inspector of Nuisances.

The Diseases of Animals Act.

A. MEARNS FRASER, ESQ., M.D.,

Medical Officer of Health, Portsmouth.

SIR,

I beg most respectfully to present my Annual Report for the year ending 31st December, 1920.

INSPECTION OF CATTLE.—The following is a list of animals brought into the Borough from different parts of the country during the year, viz. :--

(1) Cattle, etc., arriving at the Town and Fratton Railway Stations :--

Beasts		 5,939
Sheep		 14,309
Calves		 8,182
Pigs		 6,587
Horses		 168
Goats		 20
	Total	35,205

(2) Cattle, etc., arriving by Tow-boats from the Isle of Wight :--

Beasts		 467
Sheep		 895
Calves		 1,616
Pigs		 1,702
Vearlings		 524
Horses		 156
Elephants		 2
Donkey		 1
	Total	5,363

(3) Cattle, etc., arriving by road via Portsbridge :--

Beasts	 	856
Sheep	 	1,080
Calves	 	350
Pigs		4,208
Goats	 	10

(4) Cattle, etc.,	arriving a	t Cosham	Market	(since
October, 1920) :	0			
Beasts			90	
Sheep			770	
Calves			169	
Pigs			894	
	under the P	oultry		
Act of	1911)	1	,074	
Horses			12	
	Total	3	,009	

(5) Cattle, etc., arriving at Cosham Railway Station (since October 1st, 1920) :—

Beasts		 462
Sheep		 359
Calves		 15
Pigs		 83
	Total	919

INSPECTION OF CATTLE TRUCKS, &c.—2,112 cattle-trucks 970 horse-boxes and 477 tow-boats have been inspected, cleansed, and limewashed as required by the orders of the Ministry of Agriculture and Fisheries

FOOT AND MOUTH DISEASES ORDERS OF 1895 AND 1920.— No case of foot and mouth disease occurred in the Borough during the year.

SWINE FEVER ORDER OF 1909 AND 1917.—During the year I received 692 licenses for 3,999 fat pigs for immediate slaughter, and 175 licences in respect of 1,070 store pigs to various sties within the Borough ; these were kept under supervision as required by the Orders for 28 days. Not a single case of swine fever has been reported throughout the year. During the year 74 pig keepers have applied and were supplied with pig registers. Inspection of the sales in the registers have been duly made ; sties have been kept limewashed and in good order.

RABIES ORDER OF 1919.—During the year many orders and circulars were issued in connection with the above; these were duly attended to. I received during the year 18 licences from the Ministry in respect of dogs which had to be kept under supervision on various premises for six months. All suspicious cases reported by owners and police were seen by Mr. Herbert Green, Veterinary Surgeon for the Borough, and post-mortems made, but not a single case showed signs of rabies. In one instance proceedings were instituted against an owner for allowing his dog to be out in the highway without being muzzled or on a lead, and he was fined 10/for the offence.

IMPORTATION OF DOGS ORDER OF 1914 AND AMENDED ORDER OF 1918.—During the year I received 56 notices or reports from the Customs with reference to dogs arriving into this Port on Naval ships and other vessels. This entailed a great amount of investigation and supervision, as the ships were anchored or laid up in all parts of the harbour.

Many contraventions of the orders occurred; the difficulty is that sailors are as a rule unable to pay for the keep of their dogs whilst in homes, as required by the orders. When dogs are drowned or lost the circumstances in each case were reported direct to the Ministry of Agriculture who dealt with the matter forthwith.

PARASITIC MANGE ORDER OF 1911 AND AMENDED ORDER OF 1918.—During the year many cases have been reported by owners of horses and the police ; all such cases were carefully examined by Mr. Herbert Green and other Veterinary Surgeons, but only five cases were diagonised to be suffering from parasitic mange. These were kept isolated and treated (under notice) until they were certified by a Veterinary Surgeon to be free from disease ; the stalls were thoroughly cleansed and limewashed in accordance with the orders before releasing notices were issued.

SHEEP DOUBLE DIPPING ORDERS OF 1914 AND 1920.— Under the Above orders I received licenses for 105 sheep from one of the dipping centres to slaughter-houses to be immediately killed. These were kept under supervision until slaughtered.

All orders relating to disease of animals issued by the Ministry of Agriculture and Fisheries not mentioned in this report have been thoroughly carried out. The whole of the year has been an exceptionally busy one, and had it not been for the assistance of Inspector Turner, and the use of a horse and trap, the work could not have been effectively carried out.

I am, Sir,

Your obedient servant,

G. W. MONKCOM.

Inspector Diseases of Animals Act, Portsmouth.



The Public Analyst's Report.

The Chemical, Laboratory, 16 Arundel, Street, Portsmouth.

To the Chairman and Members of the Health and Housing Committee.

GENTLEMEN,

I beg to submit my Report on the work done in the Public Analyst's Department during the year ending December 31st, 1920.

The number of examples examined shows an increase over the number examined during any previous year, and the percentage of adulteration detected is slightly greater.

It will be seen that the total number of samples returned as adulterated is 65, and the total amount received in fines is only $\pounds 29$. I would point out the necessity for a more serious view being taken of such cases, inasmuch as food adulteration is quite a paying proposition at this price.

In February of last year Mr. C. M. Beckett was appointed Assistant, and I wish to record my appreciation of his work. It is largely due to his efforts that there is this gratifying increase in the number of samples examined.

I also wish to record the thorough and courteous manner in which Inspector Hobbs carries out his duties at all hours of the day and night.

I remain,

Your obedient servant,

REGINALD P. PAGE,

Public Analyst.

REPORT OF THE PUBLIC ANALYST.

During the year ending December 31st, 1920, the number of samples examined was 1,176, which may be briefly summarised as follows :—

Food and Drug	Samples	 	1,120
Waters		 	24
Miscellaneous		 	29
Rag Flock		 	3
			1,176

The number of samples taken in connection with The Sale of Food and Drugs Act is 1,120. This averages one sample to every 210 persons of the Borough, or a "Sample Rate" of 4.7 samples per 1.000 persons.

The last Report published by the Local Government Board gives one sample per 333 persons in England and Wales, or a "Sample Rate" of 3.0 samples per 1,000 persons.

The number of samples examined, the number adulterated and the percentage of adulteration for each of the different classes of Foods and Drugs is given in the following table :—

TABLE A.

Nature of Sample	Number Examined	Number Genuine	Number Inferior	Number Adulterated	Percentage Adulterated
Milk	666	627	9	30	4.5
Status Mille	6	6			
Condensed Milk	12	12			
Machine Skimmed Con-	1.2	1			
1	1	1			
The second second	2	2			
	17	6		ii	
Dutton	76	76			
Fammalas	33	32		i	
	19	19			••,
Lard	23	21	2		
Cheese	5	5	4		
Tea	57	55		1 1	
Cocoa Cocoa Mixture		1000	1	1	
Challen .	1 29	1			
Coffee		28	1.1	1	
Coffee and Chicory	9	9			
Self-raising Flour	5	5			
Baking Powder	11	3	3	5	
Pearl Barley	3	3			
Rice	3	3			
Pepper	8	8			
Mustard		6			
Mustard Mixture		1			
Marmalade		1		1	
Jam		6			
Honey		4			
Sausages		5		4	
Lemon Curd		1			
Whisky	4	3		1	
Winox	. 1	- 1			
Malt Vinegar		1			
Vinegar	2	2			
Atora Suet	. 1	1		1	
Meat Paste	. 1	1			
Olive Oil	. 8	8			
Castor Oil	. 3	3			
Camphorated Oil .	. 14	12		2	
Amm. Tinc. of Quinine	8	8			
Tincture of Iodine .	. 4	4			
Glauber Salts	. 2	2			
Boric Acid Ointment .		3			
Mercury Ointment .	. 14	4	2	8	
White Mercury Ointme't		1			
Milk of Sulphur .	0	3			
Crushed Linseed .	0	3			
Seidlitz Powders	0	3			
Liquorice Powder , .	10	13			
Tartaric Acid	=	5			
Deservices	5	5			
Olympics	4	4			
and the second		2			
Orange Quinine Wine .		-			
	1120	1038	17	65	5.8

From the figures given in the foregoing table it will be seen that 5.8 per cent. of the samples examined were found to be "Not Genuine." Comparing this figure with that for the previous twelve months (4.2 per cent.), a slight increase is shown in the percentage of detected adulteration.

TABLE B.

ADULTERATED SAMPLES.

				Service of the service. Helder and the service descent service of the service of
No.	Nature of Sa	mple	Nature of Adulteration.	Observations.
34	Milk		13.3% deficient in fat	Sent in by Private Person
35	Do		2% ,, ,,	Cautioned by MOH
60			6% ,, ,,	cautioned by M.O.H.
		• •		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
69			2.5% of added water	
83	Do			»» »»
96	Marmalade		4.6% deficient in water	
			soluble extract	Test Sample
119	Milk		6% deficient in fat	Cautioned by M.O.H.
175			32.0 degrees under proof	
204	Milk		5% deficient in fat	Cautioned by M.O.H.
218				
			5% ,, ,,	33 37 33 20 - 4 Coursel
226	Mercury Ointmer		65% deficient in Mercury	Test Sample
227	Do		44% ,, ,,	>>
230	Do		62% ,, ,,	"
232	Do		73.3% ,,	"
250	Do		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	111 A 00 A
251	Do		47% ,, ,,	Protected by Label
257	Milk		5% of added water	Fined £5
265				
	Margarine		2.5% of excessive water	Test Sample
313	Milk		9% deficient in fat	
320	Do		2% of added water	» » » »
344	Do		9% deficient in fat	,, ,, ,,
346	Do		3%, ,, ,,	22 22 23
387	Do		5% ,, ,,	
388	Do		5% ,, ,, ., 5% ,, ,,	Fined £2 " "
			70/ ,, ,,	
468	Do		7% " "	Cautioned by M.O.H.
486	Baking Powder		60% deficient in available	
			Carbon Dioxide	Test Sample
493	Milk		5% deficient in fat	Cautioned by M.O.H.
494	Do		5% deficient in fat	Cautioned by M.O.H.
505			0.2% of Boric Acid	Test Sample
506			0.2% of Boric Acid $0.15%$ of Boric Acid	Test Sample
510	Baking Powder		90% deficient in available	A cor builting
010	baking rowder		Carbon Dioxide	
= 10	-			"
512	Do	• •	95% deficient in available	
			Carbon Dioxide	Test Sample '
531	Cream		0.16% of Boric Acid	"
537	Do		0.1%, ,, ,,	Fined £5
538	Do			Cautioned by M.O.H.
539	Do		0.17%,,,,,	Fined 15
558	Mercury Ointmen		63% deficient in Mercury	Test Sample
		· ··	16% deficient in fat	Cose dismissed (Warranty
569	Milk	**	10% dendent in fat	
				pleaded)
575	Mercury Ointmen	t	62% deficient in Mercury	Fined £5
599	Milk		8% deficient in fat	Cautioned by M.O.H.
602	Baking Powder		98% deficient in available	
			Carbon Dioxide	No Prosecution
603	Do		90% deficient in available	
1000000			Carbon Dioxide	No Prosecution
649	Cream		0.2% of Boric Acid	Test Sample
	-			
		•••	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Continued has (0.0
	Do	• •	0.12% ,, ,,	Cautioned by T.C.
701	Milk		13% of added water and 9	
			grains of Boric Acid per	
			pint	Sent in by Private Person
725	Cream		0.13% of Boric Acid	Cautioned by T.C.
773	Coffee		25% of Chicory	Test Sample
785	Milk		5% deficient in fat	Bound over in the sum of £10
100			- /0	for six months
700	De		140/ deficient in fat	
792	Do	• •	14% deficient in fat	Fined £4
829	Do		8.3% of added water	Cautioned by M.O.H.
	Cream			Sent in by Private Person
916	Sausages		0.25% of Boric Acid	Test Sample
919	Do		0.13% ,, ,,	"
922	Do		0.2% " "	**
-				

No.	Natur	e of Sam	ple.	Nature of Adulteration.	Observations.
965 972 1043 1046	Cocoa Milk Do	··· ·· ··	•••	$2 \cdot 5\%$ of added water 12% of added starch 13 \cdot 6% of added water 23% " "	Test Sample Sent in by Private Person
1078 1097 1109	Do Camphora Milk Camphora Milk	ted Oil	 	 5% ",",",",",",",",",",",",",",",",",",",	Test Sample ,, Cautioned by M.O.H. Fined £2

TABLE B. -- Contd.

The Total Fines, including Costs, amounted to $\pounds 29$

There was no case of obstructing the Inspector in the course of his duty or of refusing to serve.

TABLE C.

Table shewing the number of samples analysed and the number found adulterated during the last five years in Portsmouth.

			Year	Samples Examined	Number Adulterated	Percentage Adulterated
PORTSMO	UTH		1916	1003	44	4.3
Do.			 1917	1004	57	5.5
Do.			 1918	921	82	8.9
Do.			 1919	956	40	4.2
Do.			 1920	1120	65	5.8
ENGLAND	AND	WALES	 1919	101140	8313	8.2
LONDON			 1919	25221	1627	6.4

MILK.

The following table gives the statistics of the milk adulteration during the last five years.

TABLE D.

			 Year	Number Examined	Number Adulterated	Percentage Adulterated
PORTSMOU	тн	. 1	 1916	554	42	7.0
Do.			 1917	638	51	7.9
Do.			 1918	622	75	12.05
Do.			 1919	651	33	5 0
Do.			 1920	666	30	4.5
ENGLAND	AND	WALES	 1919	57361	6374	11.1
LONDON			 1919	12689	981	7.7

In addition to the 30 samples returned as adulterated, 9 samples were reported as being of "Inferior Quality," the deficiency in Milk Fat or in Non-Fatty Solids being very slight. There is reason to believe that, in many of these cases, an attempt has been made to "break down" a richer milk to one of "standard quality" and that the process has been carried a little too far.

On the last page of this Report will be found a curve showing the adulteration of the Portsmouth Milk Supply in comparison with similar curves drawn for England and Wales and for London.

The composition of the genuine samples for each month in the year is tabulated as regards Milk Fat and Non-fatty Solids in the following table E.

Mor	ith	Fat	Solids not Fat	Total Solids
January		 3.72	8.84	12.56
February		 3.53	8.81	12.34
March		 3.51	8.78	12.29
April		 3.54	8.81	12.35
May		 3.65	8.79	12.44
June		 3.45	8.83	12.28
July		 3.72	8.61	12.33
August		 3.93	8.67	12.60
September		 3.81	8.76	12.57
October		 3.84	8.84	12.68
November		 3.91	8.83	12.74
December		 3.99	8.80	12.79
Average		 3.71	8.78	12.49
Average 191	9	 3.57	8.87	12.44
,, 191		 3.39	8.73	12.12
,, 191	4	 $3 \cdot 42$	8.82	12.25
,, 191	3	 3.54	8.90	12.44

TABLE E.

A comparison of the average quality of the Milk sold in Portsmouth during and since the war shows that much better Milk is now being supplied.

FARMERS' SAMPLES.

During the year 49 samples were taken at the Railway Stations, and of these 7 were found to be below the standard required, but in no case was the deficiency sufficiently great as to warrant proceedings being taken against the farmers concerned.

MILK SUPPLIED TO LOCAL INSTITUTIONS.

Thirty-one samples were obtained from Kingston Workhouse and the various Hospitals in the Borough. In only one instance was the milk found to be below the Government Standard, but in this case the milk also contained Preservative. Seeing that this milk was supplied to the Infectious Diseases

96

Hospital and that Preservative was found in it again in January of this year, the Contractor was fined $\pounds 10$ under the penalty clause contained therein.

The average amount of Fat in these samples was 3.9 per cent. and of Non-fatty solids 8.77 per cent., showing that the milk supplied to the Local Institutions was well up to average quality.

PRESERVATIVES.

1MILK	AND	CREAM	NOT SOLD	AS PRE	SERVED	CREAM.						
	No. of Samples examined for the presence of a Preservative					No. in which Preservative was reported to be present and percentage of Preservative found in each Sample.						
Milk		672			San One sam	ple sent in ple contain	by a " ied For	Boric Acid 0.11% Private Purchaser" malin and was sent a local Hospital				
Cream		15			Eleven follow No. 505 No. 506 No. 531 No. 537 No. 538 No. 539 No. 649 No. 652 No. 663 No. 856	s :—		 Preservative as d Test Sample " Vendor fined £5 Vendor cautioned (first offence) Vendor fined £5 Test Sample " Vendor's explanation accepted & subsequently cautioned Sample submitted by a Private Purchaser. Insufficient sample for estimation of Boric Acid 				
(a) Inst	tances in	RESERVEI which sam to Preserv	ples have	been subn	nitted for a	malysis	to ascertain if the				
			Correct state		ide .		2					
		(2) \$	statements	incorrect	~		0					
						Total	2					

(3) Percentage of Preservative	found in a	each	Percentage sta	ted on
sample			Statutory L	abel
No. 536-0.13% Boric Acid			"Not exceeding	g 0.4%
No. 651-0.31 Boric Acid			Boric Aci	1"

(b) Determinations made of Milk-fat in Cream sold as Preserved Cream.

Above 35% Pclow 35%	•••			$\frac{2}{0}$
		To	tal	2

3.-THICKENING SUBSTANCES.

No evidence of their addition to Cream or Preserved Cream.

BUTTER.

76 samples of Butter were examined and in no case was "Foreign Fat" or "Excessive Water" detected.

The following table gives the number of samples examined, the number adulterated, and the percentage of adulteration during the last five years.

	•	Year	Number Examined	Number Adulterated	Percentage of Adulteration
Portsmouth		 1916	150	2	1.3
Do.		 1917	137	0	
Do.		 1918	38	2	5.2
Do.		 1919	57	0	
Do.		 1920	76	0	
ENGLAND AND	WALES	 1919	4438	257	5.7
LONDON		 1919	2117	164	7.7

Each sample is tested for the presence of preservatives and Boracic Preservative was found in 46 of the samples or 60 per cent. In no case was the amount of Boracic Preservative found to be greater than 0.3 per cent. as Boracic Acid.

MARGARINE.

Thirty-three samples of Margarine have been analysed and of them One sample was found to contain water slightly in excess of the limit allowed. In every case it was found that Boron Preservative had been used though not in excessive amount.

CHEESE.

Twenty-one samples of Cheese were submitted for analysis, Two of which were reported upon as being of "Inferior Quality." In these two instances it was found that the Cheese had been made from Skimmed Milk, the amount of Fat present being only 7.7 per cent. in the one case and 13.2 per cent. in the other, whereas a Cheese made from Whole Milk should contain at least 30 per cent. of Fat.

There is no Standard for Cheese in this country, and consequently no proceedings could be instituted against the vendors of these samples in spite of the fact that the price paid for the Cheese in both cases was identical with the price paid for genuine Cheese made from Whole Milk and purchased at the same time.

BAKING POWDERS.

Eleven samples of Baking Powder were analysed and three were returned as adulterated, whilst three were reported as being of "Inferior Quality." The value of a Baking Powder depends upon the amount of Carbonic Acid gas which is given off from the materials when mixed with Water, and in the above three cases it was found that the powder was to all intents and purposes inactive when mixed with Water. The ingredients of a Baking Powder deteriorate with age, especially if not kept absolutely dry. Enquiries concerning the origin of these powders were made and it was found that they had been purchased before the war and were consequently about six years' old. The vendors were cautioned, and promised to withdraw them from sale.

DRUGS.

Ninety-five samples under this heading have been examined and Ten were returned as adulterated. This percentage of adulteration is an unduly large one, but it is accounted for by the fact that the majority of the adulterated samples consisted of Mercury Ointment. The British Pharmacopoeia of 1914, which is the standard authority for such preparations lays down the strength of Mercury Ointment as containing 30 per cent. of Mercury. Samples were taken at various chemist shops and it was found that the percentage of Mercury varied from 30 per cent. down to 8 per cent. with intermediate percentages of 28, 26, 16, 11 and 9, which revealed the fact that there was no standardisation of this preparation in the town.

Police Court proceedings were instituted in two cases. In the first case the Magistrates fined the Vendors $\pounds 1$, at the same time remarking that they regarded it as a test case. In the second case, heard some months later, the Vendor was fined $\pounds 5$.

CAMPHORATED OIL.

The two cases of adulteration represent the Test sample and the Official sample taken afterwards in view of the fact that the Test sample was found to be adulterated. The deficiency in Camphor was very large, namely, 52.5 per cent., and in the Police Court proceedings which followed the Vendor was fined f_2 .

RAG FLOCK ACT, 1911.

In January of last year a Circular was received from the Ministry of Health stating that samples should be taken under this Act.

Rag Flock is made from torn up rags, carpets, clothing and such like, all of which may have come from the dirtiest of sources and requires very careful washing and sterilisation before being made up into bedding.

The Rag Flock Act, 1911, lays down a standard of purity for this material as follows :—

"ARTICLE I.—Flock shall be deemed to conform to the standard of cleanliness when the amount of soluble chlorine, in the form of chlorides, removed by thorough washing with distilled water at a temperature not exceeding 25 degrees C. from not less than 40 grammes of a well-mixed sample of Flock does not exceed 30 parts of chlorine in 100,000 parts of the Flock."

Enquiries made throughout the Borough showed that there was not much flock actually made up into bedding in the Borough and only three samples could be obtained These, when treated under the conditions set forth in the Act yielded 7.1 parts, 16 parts and 7.1 parts of Soluble Chlorine in 100,000 parts of the Flock, which showed that they must be considered as satisfactory when viewed in the light of the Government standard.

WATER.

Of the twenty-four samples of water analysed twelve represent the town supply, the figures for which are set out in table XX. of the Medical Officer's Report. TABLE XX.

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TABLE OF ANALYSES OF PUBLIC WATER SUPPLY DURING 1920 BY THE PUBLIC ANALYST.

(Results expressed in parts per 100,000)

Remarks	Bright, clear and colourless,—This analysis indicates the water is in	good condition. do.	do.	do.	do.	do.	do.	do.	do.	do.	do.	do.	
Oxygen absorbed in 4 hours at 37° C.	-0067	•006	.012	.026	IIN	Nil	IIN	IIN	IIN	.01	IIN	liN	
Albu- minoid or Organic Ammonia	.0024	.0034	.004	.0026	.001	.0018	·0016	· 003	.002	.003	.002	.0016	
Free or Saline Ammonia	100-	•008	.001	100.	IIN	IIN	IIN	IIN	liN	IIN	•006	+000+	
Total Hardness	22.8°	22.4°	22 · 0°	$21 \cdot 0^{\circ}$	22.4°	$21 \cdot 0^{\circ}$	22.0°	22.8°	22.4°	22.4°	21.6°	23 · 0°	
Nitrogen as Nitrates	18.	.40	.28	.28	.32	.37	•33	•33	.40	·36	.35	· 34	
Chlorine	1.6	1.6	1.6	1.6	1.6	1.8	1 - 7	1.6	1.6	1.6	1.6	1.6	
Volatile Solid Residue	2.0	5.0	2.0	1.8	1.0	2.0	1.5	2.5	5.0	2.0	2.5	2.0	
Total Solid Residue	. 29.0	30.0	28.8	28.8	29.0	28.5	29.8	30.0	30.5	30.5	30.0	30.8	
Source	Co.'s Main, Arundel St.	do.	do.	do.	do.	do.	do.	do.	do.	do.	do.	do.	
Date - 1920	Jan. 22	Feb. 17	Mar. 13	April 15	May 20	June 22	July 20	Aug. 23	Sept. 22	Oct. 21	Nov. 23	Dec. 13	

101

MISCELLANEOUS SAMPLES.

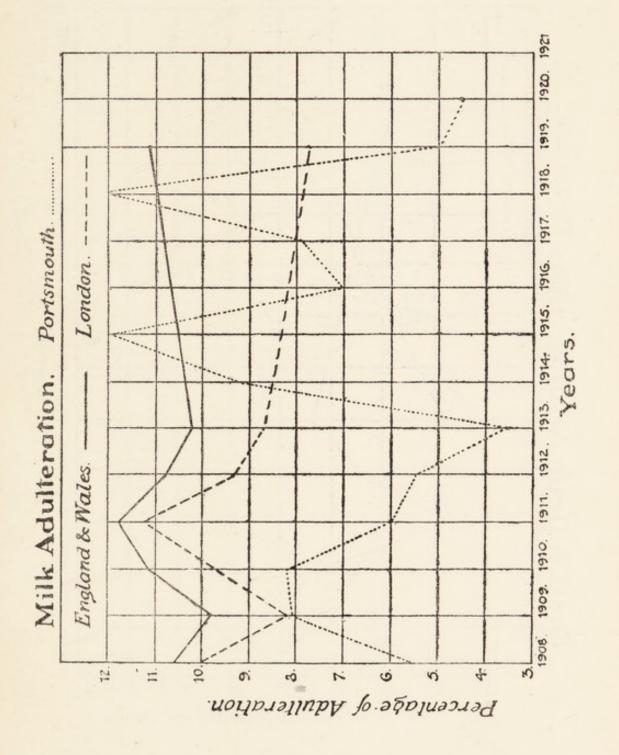
In addition to the samples mentioned in the foregoing pages, the following have been analysed or examined during the year :—

Paints and I	Paint Mat	terials			15
Soap					6
Spirits					2
Milk					1
Water					12
Poisoning Ca	ases				5
			Tot	al	41

The Painting Materials and Soaps represent samples submitted under contract to the Corporation or The Board of Guardians.

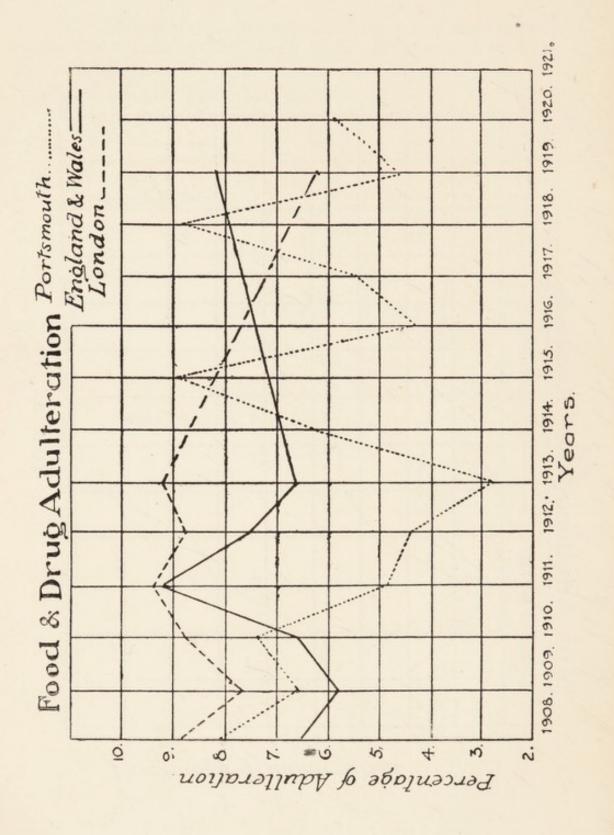
REGINALD P. PAGE, F.I.C.,

Public Analyst and Official Agricultural Analyst.



REPORT OF THE MEDICAL OFFICER OF HEALTH

103



REPORT OF THE MEDICAL OFFICER OF HEALTH

104

INDEX.

Page

Acreage					12
Analyst's Report		• •			91-104
Anthrax					25
Appendix (I., II., III., IV.)	• •	•••	• •	••	72-75
Bacteriology					48
Births					7
Births and Deaths for year 192	0				13
Birth-rate					14
Dirtin Mile					
Cream Regulations	• •	••	••	• • •	10
Deaths, total					7
", different causes of					16-21
,, children under 1 year					47
Death-rate for 10 years					14
Diarrhoea					48
Diphtheria					31-32
Diseases of Animals Act					87-89
Dogs Order, Importation of					89
Drainage and Sewerage					8
Drainage Defects	••		•	••	81
Enteric Fever					33-34
Factory and Workshop Act					66-68
Food Supply					9-11
Food and Drugs Act					86
Food, unsound or destroyed					83-84
General Inspection of the Boro	uch				81-85
General Sanitary Supervision					81-82
General Sandary Supervision					01-04
Health Committee					2
Housing	• •	••			61-64
Infectious Diseases					24-26
", ", weekly num	ibers				43
" " Notified, ag	es of pa	tients			73
		es admitted	from 1883		79
Influenza					- 24
Inhabited Houses					12
Inspection of Cattle					87
,, Cattle Trucks, e					88
Inspector of Nuisances Report		· /			81-86
Introductory Report					5-6
incloudedby report	• •			• •	0-0

INDEX (continued).

Page

Langstone Hospital					41
Lung Diseases, Number and Ra	ate of				23
Marriages					12
Maternity and Child Welfare					44-46
Meteorological Observations					69-71
Milk Supply					9-10
Milton Hospital, Medical Super		it's Report			77-79
Midwives, Roll of					49-50
Municipal Tuberculosis Dispens	ary				40-41
-					
Natural and Social Conditions					8
Parasitic Mange					89
Population					15
,, at Census, 1911					12
Port Sanitary Authority					80
Prosecutions					85-86
					00 00
Rabies Order, 1919					88
Rables Ofder, 1915					00
Sanitary Defects					82
AL					29-30
0	••	• •			20-30
Slaughterhouses, Cowsheds, Bal	· ·	etc	••		82
Staff of Health Department					3-4
Summary of Deaths		••	••		22
Summary of Statistics			•••	••	7
0.1.1	•••	• •			88
Swine Fever		••			00
10 June 1					0.5
Tetanus	• •	• •			25
Tuberculosis	11			• •	35-42
					07 00
Vaccination Returns			•• •		27-28
Venereal Diseases					51-60
and the second					-
Water Supply					64
Water Supply, Analysis of					65
Workshops, Nuisances in respec	t of				68
Zymotic Death-rate					23
Zymotic Diseases (1861-1919) ta	able				26







