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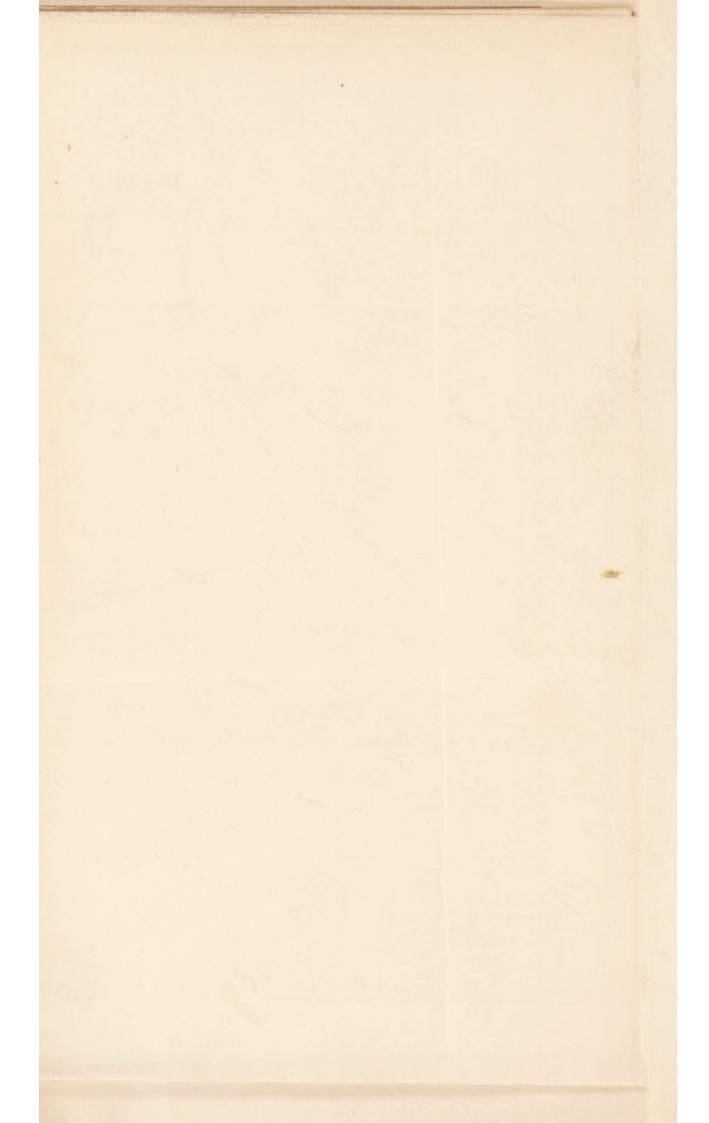
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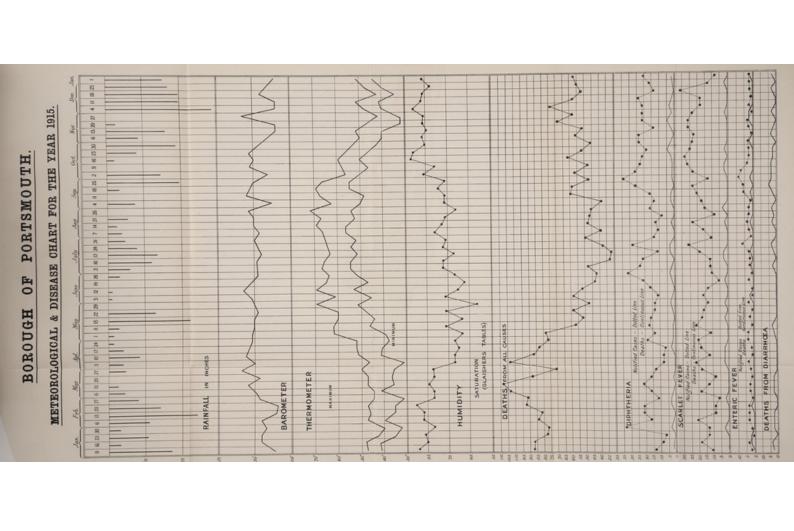
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MAP SHOWING INCIDENCE OF CERTAIN INFECTIOUS DISEASES IN PORTSMOUTH DURING THE YEAR ENDING DECEMBER 31st, 1915.







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REPORT

ON

The Health of Portsmouth For the Year 1915

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 the Public Analyst.



PORTSMOUTH:

W. H. BARRELL, LTD., Printers, 114 High Street.



Health Committee, 1914-15.

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Inspector of Diseases of Animals Act:

G. W. MONKCOM.

Inspector of Workshops and Inspector of Nuisances:

H. G. GRAY, Cert. San. Inst. (Acting Chief Clerk)

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.

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

H. HOLMAN, Cert. San. Inst.

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Adv. Bdg. Constn.

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

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

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MISS M. MONK, L.O.S., C.M.B., Cert. San. Inst.

Health Visitors:

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MISS E. WEAVER, Cert. San. Inst.

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Asst. Clerks: *F. A. CROFT and *W. HUTSON.

MISS WHATSON (Acting Assistant Clerk)

Port Sanitary Inspector: A. YATES.

Disinfector: *L. SWAN.

^{*} Now serving with H.M. Forces,

Municipal Cuberculosis Dispensary.

Chief Medical Officer:

*JAMES FAIRLEY, M.D., D.P.H. C. J. ALEXANDER, M.D., D.P.H.

Assistant Medical Officer:
H. W. M. REES, M.R.C.S., L.R.C.P.

Nurses:

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Secretary: MISS E. HEALEY.

Langstone Bospital.

Sisters-in-Charge .. MISS DUNCAN.
MISS BOOKER.

Infectious Diseases Bospital.

Medical Superintendent:

J. McGREGOR, I.R.C.P., I.R.C.S.

Matron: MISS F. PETCHEY.

PUBLIC ANALYST: *R. P. PAGE, F.I.C. DR. A. ANGELL (Acting Public Analyst)

Medical Officer's Report, 1915.

To the Chairman and Members of the Health Committee.

Gentlemen,

I have the honour to submit for your consideration my Annual Report on the Health of Portsmouth for the year 1915; this is the Twentieth Annual Report which I have prepared.

The work of the Health Department has been impaired to a certain extent owing to the War and to the depletion of my Staff by members of it who have joined the Services.

The most important new feature of the year has been the establishment of a Munic pal Maternity and Child Welfare Centre, from which I anticipate a very beneficial effect on infant life.

Among many things that have had to stand over for the present has been a reconstruction scheme for the Voller Street area. Progress has, however, been made in the demolition of houses already condemned.

The enlargement of the Milton Infectious Diseases Hospital is well in hand, but various difficulties have prevented any progress being made with the new tuberculosis hospital at Langstone.

Considered generally the health of the Borough has been very satisfactory. Unfortunately, in common with most other places where troops were stationed, there was an outbreak of cerebro-spinal fever in the spring, to which 33 deaths were attributed.

I have the honour to be, Gentlemen,
Your obedient servant,
A. MEARNS FRASER, M.D.,
Medical Officer of Health.

Summary for 1915.

*Civil Population (estimated on National Register to middle of 1915) 202,441

			vil		tal	To	14 tal
			lation		lation	4	lation
		(202,	,441) Rate	(251,	Rate	(245)	,827) Rete
		Number	per 1000	Number	per 1000	Number	1er 1000
BIRTHS		4975	24.5	4975	19.7	5714	23.2
DEATHS		3284	16.2	3365	13.3	3194	12.8
,,	Principal Zymotic	0201	10.2	0000	10.0	0101	12.00
,,	Diseases	314	1.55	321	1.27	273	1.1
,,	Small-pox						
,,	Measles	123	0.60	125	0.49	39	0.1
,,	Scarlet Fever	17	0.08	20	0.07	5	0.0
,,	Diphtheria	68	0.33	68	0.27	79	0.3
,,	Whooping Cough	36	0.17	36	0.14	50	0.2
,,	Fever	18	0.08	20	0.07	29	0.1
11	Diarrhoea (under 2 years)		0.25	52	0.20	71	0.2
"	Pulm'y Tuberculosis	233	1.15	237	0.94	249	1.0
"	Cancer	238	1.18	239	0.94	197	0.80
,,	Violence	113	0.55	135	0.53	135	0.5
**	Under 1 year, per	Infan Mort Ra	ality		2020	Mon	ntile tality ute

DEATHS,	65 years and upwards	1016	Percentage	to	total	deaths	 30.9
,,	Inquest Cases	315	,,	,,		,,	 9.59
,,	In Public Institutions	812	"	,,		,,	 24.72
,,	from uncertified cause	20	,,	,,		**	 0.60

Death-rate for previous Ten years ((1905-	1914)	 13.8
		1915	1914
Mean Temperature		51.1° F.	 52.2° F.
Total Rainfall in Inches		37.41	 33.13
" " " Millimetres		950.2	 841.5

Statistics.

The value of a Health Report upon a district depends to a very large extent upon the accuracy of the statistics upon which it is based, and the most important calculation is the number of persons living in the district, *i.e.*, the population.

The exact population of a district is only known at the census, which is taken once in every ten years. To arrive at the population for any period between the census years the following procedure is adopted. The rate of increase (or decrease) during the ten years between the last two censuses is ascertained, and it is assumed that since the last census the same rate has been maintained; to ascertain, therefore, the population of Portsmouth for the middle of 1915, the population at the census in 1911 is ascertained, and to this is added 41 years' increase. (It is 41 years' increase, and not 4 years, because the population is always estimated to the end of the second quarter of the year, whereas the census is taken in the first quarter.) According to this, the usual method of calculation, the population of Portsmouth for 1915 would be 251,825, which includes men in the Navy and Army.

These, however, are not normal times, and the Registrar General, who issues the official estimates of the populations of the various districts in the country, is of opinion that there has been so much disturbance of population caused by the war, that the usual method of estimation is inapplicable. He has accordingly issued a Circular advising that for the purposes of the health statistics of 1915, no account be taken of sailors and soldiers, and that only the civil population be dealt with, and he has issued a return of the civil population of the various districts for 1915. These figures for the civil population are not calculated as usual from previous census returns, but are based upon the National Register, which was taken on Aug. 15th, 1915. The civil population of Portsmouth arrived at by this method is stated to be 202,441. It would be reasonable to expect that the figures thus arrived at, based as they are on direct enumeration, would be pretty correct; I am of opinion, however, that for this Borough at least they are very far from being so. I believe the population given by the Registrar General is very much

below the actual population of the Borough. If this is so, and I shall give some of my chief reasons for this statement, the effect will be to throw up all death-rates, birth-rates, etc., much higher than they actually are; in fact, the accuracy of any calculations based on the assumption that the civil population of the Borough is only 202,441 must be open to the gravest doubt. Still, as these figures are the official estimate I feel bound to adopt them in this Report.

My reasons for believing that the civil population of Portsmouth during 1915 are much higher than 202,441 are as follows:—

The total population of the Borough as ascertained at the census of 1911 was 231,141; deducting from this the number of sailors and soldiers (23,252), we find the civil population to have been 207,889. If the civil population had increased at the normal rate since the census, then in the middle of 1915 it would have been over 220,000, an increase of about 17,000. The Registrar General finds that so far from there having been an increase to this extent, there has actually been, in spite of $4\frac{1}{4}$ years growth of the town, a decrease in the civil population of 5,448. To anyone at all intimate with local conditions, such a state of affairs is quite incredible. It is true a certain number of the population has joined the Services, and some may have gone to other towns to work at munitions, but, on the other hand, there has been a considerable immigration into the town of workers at the Dockyard, of whom a large number have brought their families; there has also been an immigration of the families of sailors and soldiers.

A still stronger argument is the following: In 1911 the number of inhabited houses was 47,033, in 1915 they numbered 49,071. It is difficult to believe that an increase of 2,038 inhabited houses can be coincident with a decrease of 5,448 persons in the population. Moreover, in spite of the increase of inhabited houses, never before in my experience has there been so much overcrowding in the Borough, and never have the working classes found so much difficulty in finding housing accommodation. Evidence of the difficulty experienced in finding accommodation was afforded by the appearance in the local press of a number of advertisements from persons offering premiums up to a sovereign for houses of a rental of about 7s. a week.

There are other reasons which could be brought forward in support of the view I take. The facts, however, which I have stated are sufficient to show that calculations made on a basis of a civil population of only 202,441 must be open to question, and in studying the figures given in this Report it is important that this reservation should not be lost sight of, otherwise misleading inferences may be drawn.

Apart altogether from any error of calculation, the fact that the returns in this report only refer to the civilian population, and not to the whole population, both naval, military and civilian, as in former years, means that about 25,000 of the healthiest class, *i.e.*, men in the prime of life, have been extracted, and this must have the effect of rendering the death-rate for this year incomparable with that of former years.

Taking all factors into consideration I believe a more accurate representation of the health statistics of the Borough, and one which would be more correctly comparable with the returns for previous years, would be obtained by assuming that the whole population (including the naval and military elements) had continued to increase at the usual rate. This, as noted previously, would give us an estimated population for the middle of 1915 of 251,825. While not contending that this is as accurate an estimation as that for previous years (under the general disturbance caused by the war an accurate estimate is impossible), I believe that health statistics calculated on this basis would on the whole give a more correct representation of the facts than is secured by basing the calculations on an estimated civil population of 202,441. For this reason, although the latter will probably be taken as the official figures, I have in various tables included also the results obtained by taking the population as being 251,825. In these results the deaths of men in the Services occurring in the Borough are included.

Births. The total number of Births registered in the Borough during the year was 4,975. This was 749 fewer than in the previous year, and gives a birth-rate of 24.5 if calculated on the civil population, and 19.7 if calculated on the total population. The birth-rate for England and Wales was 21.8.

The total number of illegitimate births was 232. Some little time back some misguided persons were making wild statements as to the number of illegitimate births that would take place in this town, and calling for special provisions to be made for dealing with the babies. How ill-founded the anticipations were is shown by the fact, that not only has there been no increase in the number of illegitimate births

in the Borough, but the number registered has actually been the lowest recorded for the past five years.

In the different quarters of the year the births were registered as follows:—

First Qu	arter,	ending	April 3rd	 1499 births	
Second	,,,	,,	July 3rd	 1225 ,,	
Third	,,	,,	October 2nd	 1004 ,,	
Fourth	,,	,,	January 1st	 1147 ,,	

The total number of **Marriages** during the year was 2,978; the number last year was 2,106.

Deaths. The deaths registered amongst civil inhabitants belonging to the Borough numbered 3,284, 135 more than in the previous year, and gives a death-rate of 16.22 per 1,000 living, calculated on the estimated civil population. This is a higher death-rate than has been recorded since 1904, and exceeds the average of the last ten years by 2.38 per 1,000 living.

If however the death-rate is calculated on the estimated total population, including men in the Services, and of course deaths amongst these, it is found to be only 13.3 per 1,000 living, or slightly below the average of the last ten years. I think this method gives the more correct death-rate for the Borough.

The principal causes of death have been pulmonary tuberculosis 233 (244 in 1914), measles 123 (39 in 1914), cancer 238 (197 in 1914), valvular disease of the heart 339 (329 in 1914), bronchitis 308 (256 in 1914), pneumonia 248 (166 in 1914), premature birth and debility 128 (173 in 1914), and old age 292 (339 in 1914). The increase over last year in the number of deaths is accounted for principally by fatal cases of bronchitis and pneumonia, which numbered 556 against 422.

TABLE I.

Table showing the Population, Marriages, Inhabited Houses, Births and Deaths, for the year 1915, and the ten preceding years.

GROSS NUMBERS.

	*****	No. of	159	Danistand	Total 1	Number of	Deaths
Year	*Estimated Population	Inhabited Houses	Marriages	Registered Births	Total, all ages	Under 1 year	Under 5 years
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
1909	223,436	45,475	1,846	5,820	2,957	607	825
1908	219,095	44,734	1,930	6,110	3,332	714	1,089
1907	214,797	43,897	2,015	5,796	3,049	761	1,006
1906	210,546	43,036	2,005	5,870	3,345	755	1,179
1905	206,336	43,059	1,939	5,641	3,333	791	1,126
Average 10 years 1905-14	225,806	45,826	2,092	5,813	3,136	621	913

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

NOTES.

1.—Population at Census, 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 e	ach house at	Census (1911)	4.9
4.—Average number of Persons per	Acre at Cen	sus (1911)		38

TABLE II.

Showing Births and Deaths during the four quarters ending 1st January, 1916.

		Uncertified Causes of Deaths	4	9	4	9	20
		Deaths in Public Institutions	221	194	180	217	812
		Inquest Cases	95	71	72	77	315
		Violence	61	26	38	27	113
		Diarrhoea under 2 yrs.	01	-	12	41	52
clude		Fever	8	01	7	9	18
The Deaths registered include		Whooping	20	6	ю	61	36
is regist	Deaths from	Diph- theria	15	91	14	53	63
e Death	Deat	Scarlet- fever	61	10	9	4	17
Th		Measles	62	57	4	1	123
		Small-pox	1	1	1	1	1
		Total Nymotic Diseases	112	96	57	49	314
	Deaths of	Persons aged 65 years and upwards	366	212	184	254	1016
	Deatl	Infants under I year of age	159	Ξ	77	88	433
		Death Rate	22.2	16.2	9.11	14.9	16.2
		Birth Deaths	1127	811	590	756	3284
			29.6	24.2	21.6	22.4	24.5
		Births	1499	1225	1104	1147	4975
		Quarter	1st Quarter	2nd ,,	3rd "	4th "	TOTAL

TABLE III.

*Table showing the Annual Birth-rate, Rate of Mortality, and Death-rates among children for the year 1915, 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 I year: Percentage to total Deaths	Proportion of Deaths of Children under 1 year per 1000 Registered Births	Deaths of Childre under 5 years: Percentag to total Deaths
†1915	24 · 47	16.22	1.55	13 · 1	87	24.5
1914	23.31	12.45	1.11	15.9	84	23 · 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	14.06	2.01	22.4	126	31 - 1
1910	25.41	13 · 14	1 · 29	20.2	104	29 • 6
1909	26.40	13.62	1.35	18.2	96	28.3
1908	27.88	13.49	0.91	20.5	99	28.9
1907	26.93	15.51	1.77	21.4	123	32.6
1906	27.87	14 · 48	1.79	24.9	130	33.0
1905	27.34	16.21	2.58	22.5	134	35.2
Average of 10 years, 1905-14	25.83	13.80	1.55	19-9	106	29.3

^{*} Revised in accordance with the Census Returns of 1911.

† Civil population only.

TABLE IV.

Table IV., giving the populations, birth-rates, death-rates, etc., of the 20 largest towns, is omitted from this year's report, owing to the impossibility of obtaining reliable statistics as to population.

TABLE V.

Deaths Registered at several groups of ages from different classes of Diseases during the 52 weeks ending January 1st, 1916.

16			REPO	ORT OF THE MEDICAL OFFICER OF HEALTH
		Totals	3284	123 177 173 183 183 183 183 183 183 183 183 183 18
		Southsea	323	:0:045::::2-0 0::::: 10:1-0 0
		Mid- Southsea	608	+ 8 + 2 1 : 1 : 1 : 2 + 2 1
	DISTRICTS	Landport Central	954	56 56 119 119 119 119 119 119 119 119 119 11
	DIST	Landport filoV	106	25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
		Portsea	226	:+41-6-:-::2-0 ::-:- :41-6+ :
		Ports-	71	:-:::::::::::::::::::::::::::::::::::::
1		85 and over	111	;;;;;01;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
		75 to 85	414	::::::::::::::::::::::::::::::::::::::
		65 to 75	491	:::::::::::::::::::::::::::::::::::::::
		60 to 65	232	-::::0::::::::::::::::::::::::::::::::
		55 to 60	202	:::::::::::::::::::::::::::::::::::::::
	ES	45 to 55	320	9:::::0:-0::0::::::::::::::::::::::::::
	AGES	35 to 45	219	-:::-,::-:80:: 0::-:0::-::4 0
1		25 to 35	204	a:::::::::::::::::::::::::::::::::::::
		15 to 25	111	-:-::0::: 4 0- :::00 :-:::
		5 to 15	174	9 6 6 6 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
		100	373	-12 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
		-20	433	:2-2::::: 2::::::::::::::::::::::::
		CAUSE OF DEATH	Totals	General Diseases. Enteric Fever Measles Scarlet Fever Whooping Cough Diphtheria Influenza Dysemtay. Septicaemia Tetanus Pulmonary Tuberculosis Tuberculous Meningitis Tuberculosis of Peritoneum and Intestines, Tabes Mesenterica etc. Tuberculosis of Joints Tuberculosis of Joi

	REPORT OF TH	HE MEDIC	CAL O	FFIC	ER OF	HEALTH	17
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e c : c1 : 4 a	0-1-1-01-01	7	2 1 1	:	45	7 1 2 5 5 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5	: :-
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::: 61::			9 × :	-	::	: :::::::::::::::::::::::::::::::::::::	: : %
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Cancer of the female genital organs breast skin other or unspecified organs fied organs Rheumatic Fever	Scurvy Diabetes Leucocythaemia Anaemia, Chlorosis Other general diseases Alcoholism	Diseases of the Nervous System and of the Organs of Special Sense	Meningitis Cerebro-spinal Fever Locomotor Ataxy	Cord Cerebral Haemorrhage. Apop-	lexy, &c Softening of the Brain	cause	Sciatica Other Diseases of the Nervous System Mastoid Disease, &c.

TABLE V .- Continued

	REPORT OF THE MEDICAL OFFICER OF HEALTH							
	Totals	2 33 33 33 33 33 33 30 3 3 3 3 3 3 3 3 3						
	Southsea	: : 5 -1 : : 2 2 : : 2 2 : : 2 : : 2 : : 2 :						
	Mid- Southsea	2-08-41 +: -17 228.84:81 :						
CTS	Landport Central	103 103 103 103 103 103 103 103 103 103						
DISTRICTS	Landport North	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
	Portsea	21 : 2 : : : : : : : : : : : : : : : : :						
	Ports- mouth	::0:7 :: :: :: :: :: :: :: :: :: :: :: :: :						
	85 and over	::0:0::::::::::::::::::::::::::::::::::						
	75 to 85	::4-5 2: ::6 2.02:::5::						
	65 to 75	: :2 :2 : : : : : : : : : : : : : : : :						
	60 to 65	: : : : : : : : : : : : : : : : : : :						
	55 to 60	:: # 2 0 0 2 : : : : : : : : : : : : : : : :						
ES	45 to 55	1						
AGES	35 to 45	:-:::::::::::::::::::::::::::::::::::::						
	25 to 35							
	15 25 25	:-10:::::::::::::::::::::::::::::::::::						
	5 to 15	:-0::::::::::::::::::::::::::::::::::::						
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	CAUSE OF DEATH	CLASS III Diseases of the Circulatory System. Reticarditis Augina Pectoris Angina Pectoris Cerebral Embolism and Thrombosis Haemorrhage Diseases of the Respiratory System. Bronchitis Bronchitis Bronchitis Bronchitis Bronchitis Bronchitis Bronchopneumonia Catarrah, &c Broncho-pneumonia Pleurisy Pulmonary Congestion, &c Pulmonary Emphysema Pulmonary Emphysema Pulmonary Emphysema Pulmonary Emphysema Pulmonary Emphysema Pulmonary Emphysema Other Diseases of the						

REPORT	OF THE MEDICAL OFFICER	OF HEALTH
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CLASS V. Diseases of the Digestive System. Diseases of the Teeth and Gums Diseases of Pharynx, Tonsillitis Diseases of the Aesophagus Perforating Ulcer of Stomach Inflammation of Stomach Comparison of Stomach Compariso	Diarrhoea and Enteritis (over 2 years) Appendicitis Hernia, Irrtestinal Obstruction Other Diseases of the Intestines Cirrhosis of the Liver, &c Biliary Calculi Other Diseases of the Liver Peritonitis Other Diseases of the Digestive System CLASS VI. Non-Venereal Diseases of the Genito-urinary System and Annexa.	Acute Nephritis Bright's Disease Other Diseases of the Kidney Diseases of the Bladder Diseases of the Uretha, &c Diseases of the Prostate Uterine Tumour Other Diseases of the Uterus Ovarian Cyst, Tumour Other Diseases of the Female Genital Organs

TABLE V .- Continued.

		EPORT OF THE			
	Totals	97999	0100 17	2 3	128
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	Mid- Southsea	4::	:: "	- 6	30
DISTRICTS	Landport Central	: : : : : : : :	- 61 -	: 9	24 &
DIST	Landport North	01 :0100 01 :	-: -	: 9	37
	Portsea	:- 01 : : :	:: 61		10
	Ports- mouth	::=:::	:::	: :	64 ;
	85 and over	:::::	:: :	: :	
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	65 to 75	:::::	: : 61	:	: :
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	5 to 15	. ;::::	:: :		: :
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	02-	::::::	:- 4	: 5	127
	CAUSE OF DEATH	CLASS VII. The Puerperal State. Accidents of Pregnancy Puerperal Haemorrhage Other Accidents of Childbirth Puerperal Fever Puerperal Albuminuria Puerperal Embolism	Diseases of the Skin and Cellular Tissue Gangrene 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.	Diseases of Early Infancy. Premature Birth, Infantile Debility, &c Other Diseases peculiar to early Infancy

REPOR	T OF THE MEDICAL OFFICER OF HEALTH		21
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CLASS XII. Old Age. Age, Senile Dementia, enile Decay CLASS XIII. Affections produced by	Suicide—Poison Asphyxia Hanging Firearms Cutting or Piercing Crushing Crushing Suffocation Burns Suffocation Drowning Suffocation Frall Crushing Fall Crushing Fall Crushing Fractures Homicide Cutting Tractures Homicide The cother violence	Syncope, Heart Failure	Other Ill-defined Causes
CLASS Old Age, Seni Senile Decay CLASS Affections p	External Suicide—Poison Asphyy Hangin Drown Firearn Cutting Crushin Accident-Poison Other a Conflag Burns Suffoca Drowni Cutting Fall Crushir	Syncope, H	Other Ill-de

SUMMARY OF TABLE V.

Class	DISEASES	Number of Deaths
I.	General Diseases	1012
II.	Diseases of the Nervous System and of the Organs of Special Sense	338
III.	Diseases of the Circulatory System	421
IV.	Diseases of the Respiratory System	593
V.	Diseases of the Digestive System	183
VI.	Non-venereal Diseases of the Genito-urinary System and Annexa	135
VII.	The Puerperal State	26
VIII.	Diseases of the Skin and Cellular Tissue	12
IX.	Diseases of the Bones and of the Organs of Locomotion	2
X.	Malformations	16
XI.	Diseases of Early Infancy	135
XII.	Old Age	292
XIII.	Affections produced by external causes	113
XIV.	Ill-defined Causes	6

TABLE VI.

Table showing the Numbers and Death-rates per 1000 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 1915. (Civil population only.)

Quarter ending	Prin Zyr Dise	Seven acipal notic eases* ages	Dis (exce	eases epting uisis†)	Pht	hisis	From all Causes		
	No.	Rate per 1000	No.	Rate per 1000	No.	Rate per 1000	No.	Rate per 1000	
1915									
April 4th	 112	2.21	298	5.88	80	1.58	1127	22 · 2	
July 4th	 96	1.89	117	2.31	62	1 · 22	811	16.2	
October 3rd	 57	1.12	52	1.02	54	1.56	590	11.6	
1916 January 1st	 49	.96	126	2.44	51	1.07	756	14.9	
Totals	 314	1.55	593	2 · 92	247	1.22	3284	16-2	

^{*}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.

TABLE VII.

Showing the number of Deaths in the Years 1861 to 1915, from the Seven Principal Zymotic Diseases.

Tann	Denute			I	ISEASE	S			Totals		
/ear	Popula- tion	Small	Measles	Scarlet Fever	Diph- theria	Whoop'g Cough	Fever	Diarr- hoea	Num- bers	Rate per	
		pox		rever	cherra	Cough		noca	10:15	1.00 11111	
861	95220	1	3	5	6	11	111	152	292	3.06	
862	96960	-	42	225	20	36	128	71	523	5.39	
	98731	10	80	134	24	B 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	37	68		3.99	
863		12				16			391		
864	100531	228	6	17	-17	48	72	118	498	4.95	
865	102363	3	14	20	7	50	74	122	317	3.09	
866	104230	1	16	34	26	46	85	117	330	3.16	
867	106130		82	15	4	23	74	140	338	3.18	
868	108064		46	107	18	57	119	117	526	4.86	
869	110034	1	57	295	18	26	105	100	602	5.47	
870	112040	1	39	119	13	46	91	121	430	3-83	
871	114083	39	42	30	10	66	72	100	366	3.28	
872	114970	514	52	5	21	17	112	113	834	7.25	
873	116380	45	16	12	15	19	97	106	310	2.66	
874	117810	2	56	36	19	104	101	149	470	39	
875	119260		54	47	18	8	103	141	371	3.11	
876	120730	1	109	457	11	42	71	131	822	6.80	
877	122210		12	36	5	59	87	153	322	2.63	
878	123710	1000	36	16	1	92	96	170	411	3.32	
879	125250		10	11	4	9	62	73	169	1.35	
880	126830		42	9	20	48	70	192	381	3.00	
			0.70	25	205			73			
881	128691		7			66	60		436	3.38	
882	131535	**	156	40	106	36	107	111	556	4.22	
883	134441	1	10	16	20	54	93	80	274	2.03	
884	137412		164	9	41	9	58	116	397	2.88	
885	140448		7	5	42	44	93	123	314	2.23	
886	143552	1	197	18	65	102	124	191	698	4.86	
887	146724	3	8	26	47	41	53	151	329	2.34	
888	149966		50	12	17	27	27	98	230	1.53	
889	153279	2	8	11	33	92	32	122	300	1.95	
890	156667		4	19	47	39	50	105	265	1.69	
891	160128		223	9	23	38	33	73	399	2.49	
892	163667		38	18	26	87	42	99	310	1.89	
893	165153		120	32	29	36	54	247	518	3 · 13	
894	167878	4	139	14	34	41	29	93	534	3.18	
895	170672	-	39	7	18	64	37	238	403	2.36	
896	173565		126	19	20	60	28	157	410	2.36	
897	176497		35	11	22	65	44	286	463	2.62	
	The second second second second										
898	179500		73	31	54	42	44	183	427	2.38	
899	182576		50	22	120	62	75	316	645	3.53	
900	185725		3	11	104	87	93	159	457	2.46	
901	188885		82	15	70	21	43	311	542	2.87	
902	193969		70	14	62	92	54	159	451	2.32	
903	198049		17	27	75	34	23	115	291	1.46	
904	202171		1	22	71	76	34	213	417	2.06	
905	206336		218	11	69	45	18	173	534	2.58	
906	210546		8	3	60	63	17	226	377	1.79	
907	214797		169	4	61	57	30	60	381	1.77	
908	219095		14	8	49	55	26	48	200	0.91	
909	223436		104	19	66	27	33	54	303	1.35	
910	227821		64	30	56	52	39	54	295	1.29	
911	232221		28	21	72	40	26	290	477	2.05	
912	236732		95	29	124	52	22	57	379	1.60	
913	241256		25	20	87	16	23	112	283	1.17	
914	245827	**	39	5	79	50	29	71	273		
915	*202441		123	17	63	0.00		1000000		1.11	
010	202111		1.00	17	0.5	36	18	52	314	1.55	

Civil population only.

SMALL-POX.—No case of this disease occurred during the year. One case was notified to me on June 22nd, but subsequent observation showed that an error in diagnosis had been made. I was called in to see one other suspicious case, this also proved not to be small-pox. Arrangements have been made with the Gosport and Alverstoke Urban District Council for any cases of small-pox occurring in this Borough to be isolated and treated at the Small-pox Hospital at Elson.

Although there has been no case of small-pox in the Borough, several cases have occurred in other parts of the country. Owing to the gradually increasing number of children who escape vaccination, on the ground of the conscientious objection of their parents, the population of the town is not so well protected against an outbreak of small-pox as was the case formerly. Moreover, at the present time, owing to the influx of men in the Services from all parts of the country, there is very much more risk of infection being brought into the Borough.

TABLE VIII.
VACCINATION RETURNS FOR PAST SIXTEEN YEARS.

No. in respect of which certificates of conscientious objections have been received	23	37	41	31	50	45	44		149	266	346	562	713	800	978	880	429
No. of these births remain- ing	7	4	61	:	:	1	:	61	61	:	61	·c	9 //	ic	12	6	17
Removed to places unknown	21	20	18	19	24	17	26	28	25	24	26	21	42	34	27	31	8
Removed to Districts the Vacc. Officer of which has been apprised	36	27	38	29	35	23	35	47	63	43	33	50	43	57	48	74	25
Postpone- ment by Medical Certificate	18	26	14	26	23	28	25	43	40	37	40	40	11	33	44	99	99
Dead Unvacc- inated	645	521	587	547	471	556	477	552	495	473	430	449	510	389	409	409	149
Had Small- pox	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Insus- ceptible to Vaccin- ation	37	09	16	31	12	23	15	35	20	35	46	15	57	26	35	42	18
Successfully	4171	4385	4564	4509	4831	4916	5015	5117	6909	5120	4938	4667	4376	4314	4321	4235	2016
No. of Births returned in birth sheets so registered from 1st Jan. to 31st Dec.	4981	5036	5287	5192	5446	5609	5637	5891	5863	8669	5861	5809	5788	5658	5874	5749	2718
Year	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1161	1912	1913	1914	1915 (to June)

TABLE IX.

VACCINATION RETURNS-1st January to 30th June, 1915.

- 70			_		_	_					_	_		
Number of these Births remaining on 31st January, 1016, neither	duly entered in the Vaccination Register (columns 3, 4, 5, 6 & 7	of this Return) nor temporarily accounted for in the Report Book (columns 8, 9 and 10 of this Return)	11	3	3	8	3	17	usive.		1	00	:	6
hich on sist nentered in on account sook) of	Removal to	known, or which cannot be reached; and cases not having been found	IO	-	_	4	7	∞	, 1914, incl	9	10	7	00	31
Number of these Births which on sist January, 1916, remained unentered in the Vaccination Register on account (as shown by Report Book) of	Removal to	Vaccination Officer of which has been duly apprised	6	8	9	10	9	25	o Dec. 31st	61	13	21	21	74
Number of t January, 191 the Vaccina (as show		Postpone- ment by Medical Certificate	90	6	6	23	15	56	this District from Jan. 1st to Dec. 31st, 1914, inclusive	16	12	19	12	59
Jan., 1916 tion	Col c	Dead Unvac- cinated	1	45	28	46	27	149	strict fron	109	84	139	77	409
Number of these Births duly entered by 31st Jan., 1916 in Columns 1, 2,4 and 5, of the Vaccination Register Birth List Sheets, viz.:	Col. 4 Number in	whom certificates of Con- scientions Objection have been received	9	175	115	65	74	429	in this Dis	383	256	126	125	068
ths duly er 2,4 and 5, o Birth List	64	Had Small- Pox	5	:	:	:	:	:	were registered in	:	:	:	:	:
f these Bir clumns 1, Register	Col. 2	Insuscep- tible of Vaccin- ation	4	11	00	_	33	18		11	4	3	24	42
Number o	Col. 1	Success- fully Vaccin- ated	60	639	430	536	411	2016	se Births	1319	927	1064	925	4235
Number of Births returned	in the Birth List Sheets as	registered from 1st January to 3oth June, 1915	23	168	595	691	541	2718	REN whos	1863	1307	1387	1192	5749
	Registration Sub-Districts comprised in the Vaccination Officer's	District	1		2. Kingston and East Southsea		4. Portsmouth and Mid-Southsea	Totals	VACCINATION OF CHILDREN whose Births	1. North End and Buckland	2. Kingston and East Southsea	3. Portsea and Landport	4. Portsmouth and Mid-Southsea	Totals

SCARLET FEVER.—There were 885 cases of Scarlet Fever notified during the year, and the number of deaths was 17, giving a mortality of 1.92 per 100 cases. 630 or 71.1 per cent. of the cases were removed to and treated at the Milton Fever Hospital; of these 14 proved fatal. The usual steps were taken to prevent the spread of the disease and for the disinfection of premises. No one specified cause could be discovered for the spread of the disease, but doubtless the public elementary schools, Sunday schools and cinema performances afford the most probable means of conveyance of infection from child to child.

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 1915.

Year		Cases notified	Attack-rate per 100,000 population	No. of Deaths	Percentage o Deaths to cases notified
1884		266	194	9	3.38
1885		314	224	5	1.59
1886		343	239	18	5.24
1887		647	441	26	4.02
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		1176	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		578	316	22	3.80
1900		348	187	11	3.16
1901		452	239	15	3.31
1902		603	310	14	2.32
1903		1167	589	27	2.31
1904		726	358	22	3.03
1905		530	256	111	2.07
1906		383	181		0.80
1907		282	130	4	1.42
1908		597	272	3 4 8	1.34
1909		1165	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
Total (32 y	rears)	21,686	Mean 359	526	Mean 2·42

[&]quot; Calculated on estimated civil population, vide page 10.

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 1915.

Year	Cases admitted	No. of Deaths	Percentage of Deaths to cases treated
1884	13		
1005	16		
1000	29		
1007	56	i i	1.78
1000	120	1	0.88
1889	278	i	0.36
		11	2.86
1890	384	3	
1891	180	0	1.66
1892	532	6	1.12
1893	503	6	1.19
1894	238	8 2	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 5 8	1.77
1903	572	5	0.87
1904	340		2.38
1905	274	4 2 5	1 · 44
1906	243	2	0.82
1907	202		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
Total (32 years)	11,490	233	Mean 2.02

DIPHTHERIA.—There was an increase of 156 in the number of cases of Diphtheria notified last year compared with the previous year. The number of deaths was however only 68, as against 79 in 1914, and the percentage of deaths to cases notified was 7.36, which is the lowest case mortality that has ever before been registered; the average mortality among cases of diphtheria for the past 31 years has been 14.9 per 100 cases. This year's figures represent a reduction in the case mortality 53 per cent. is a very satisfactory fact to record. I am unable to account for this sudden decline, which was even more marked amongst the cases treated at

Milton Hospital; I can only hope it may prove permanent, and the records of coming years will be watched with interest to see if this prove to be the case. 684 or 74.1 per cent. of the cases were removed and treated at Milton Hospital. The usual measures for the prevention of the spread of the disease were taken.

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 1915.

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	126	82	33	26.19
1890	212	135	47	22.69
1891	140	87	23	16.42
1892	121	74	26	21.48
1893	140	84	29	21.48
1894	139	82	34	24 · 46
1895	124	72	18	14.51
1896	124	71	20	16.12
1897	148	83	22	15.07
1898	283	157	54	19.08
1899	566	310	120	21.20
1900	568	305	104	18.30
1901	454	240	70	15.41
1902	495	255	62	12.52
1903 1904	633 601	319 297	75 71	11·84 11·81
1005	457	221	69	15.10
1000	430	204	60	13.95
1007	423	196	61	14.89
1000	434	198	49	11.28
1000	494	221	66	13.36
1010	470	206	56	11.90
1911	554	238	72	13.00
1912	1,051	444	124	11.80
1913	959	397	87	9.07
1914	767	312	79	12.99
1915 .	923	4550	68	7.36
Tetal (32 years)	12 803	Mean 200	1811	Mean 14.92

Calculated on estimated civil population (vide page 10).

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 1915.

Year	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		33.33
1894	 38	4 8 5	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
Total (32 years)	 6,575	711	Mean 10·40

ENTERIC FEVER.—There was an extraordinary reduction in the cases of Enteric Fever notified during the year. During the past ten years the average annual number of cases has been 189 and the deaths 83; this year the total notifications only reached 97, among which there were 18 deaths. Such a large reduction has not been seen in the case of any other disease during recent years. It is the more gratifying because enteric fever is one of the diseases which are most affected by improved sanitary conditions, and the prevalence or otherwise of this disease is a fairly good guide to the success which is attending the efforts to improve the sanitary

condition of a district. As usual, enquiries were made to ascertain if shellfish—which I believe to be a very frequent cause of cases of enteric fever in this town—might have been the cause. It was found that 18 of the patients had previously eaten cockles within the incubation period, and in 8 cases cockles had been eaten raw. Five of the patients had previously eaten winkles.

During the year the "Public Health (Shellfish) Regulations, 1915" were issued by the Local Government Board. These are directed towards the prevention of the sale of shellfish gathered from polluted beds or layings until they have been relaid for a certain period. If this could be enforced it would prove a most valuable measure. Unfortunately it is most difficult in application. There is not so much difficulty in applying the provisions of the Regulations to reputable oyster growers, with definite beds and layings; these, for the sake of their business, if for no other reason, are as a rule only too anxious to take every precaution to protect their shellfish from pollution. The difficulty is in dealing with irresponsible cockle and winkle vendors. The Order which the Local Authority is empowered by the Regulations to make does not prevent the gathering of shellfish from layings known to be polluted, it only prohibits the distribution for sale for human consumption of such shellfish until they have been relaid (in an unpolluted laving) for such period as the Local Authority may determine. I do not see how these provisions can be enforced in this Borough. The cockle-men pick up the cockles in the various harbours and creeks round Portsmouth; the cockles are nearly all polluted, or at any rate are liable to pollution, and so far as I know there is no suitable place in the neighbourhood where the men could relay them for 14 days, even if they were disposed to take the trouble to do so. Further, when the cockles are being hawked in the street, or on sale in fish shops, there are no means of inspection by which it can be ascertained whether they have been relaid or not. The weak point in the Regulations seems to be that no power is given to make an Order prohibiting absolutely the collection of shellfish from known polluted sources. Doubtless there appear to the Local Government Board to be sufficiently good reasons why such drastic powers should not be granted to Local Authorities, but until some such power is granted I am afraid cases of enteric fever will continue to arise in the Borough from eating polluted shellfish. Further, I am afraid all the regulations in the world will not prevent children and others picking up cockles from the seashore and eating them raw.

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 1915.

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 .	700	542	93	11.48
1886 .	1040	870	124	9.90
1887 .	554	378	53	9.52
1888 .	212	208	27	8.60
1889 .	217	207	32	10.01
1890 .	. 457	292	50	10.94
1891 .	. 265	165	33	12.40
1892 .	. 330	203	38	11.51
1893 .		218	54	14.96
1894 .	. 201	119	25	12.44
1895 .	. 258	151	33	12.74
1896 .	. 235	135	27	11.49
1897 .		181	42	13.08
1898 .		170	43	14.10
1899 .	. 531	290	75	14.12
1900 .	. 1083	583	92	8.49
1901 .		171	43	13 · 27
1902 .		230	54	12.05
1903 .	. 216	109	23	10.65
1904 .		110	33	14.80
1905 .		79	18	10.91
1906 .		69	17	11.64
1907 .		108	30	13.73
1908 .		94	26	12.07
1909 .	. 274	122	33	12.04
1910 .		110	39	15 14
1911 .		68	28	17-61
1912 .		59	22	15-71
1913 .	. 126	52	23	18.25
1914 .		76	29	15.34
1915 .	. 97	47=	18	18.55
Total (32 years	11,278	Mean 206	1,335	Mean 11-83

^{*} Calculated on estimated civil population (vide page 10).

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 1915.

Year		Cases admitted	No. of Deaths	Percentage of Death to cases treated
1884		2		
1885		6		
1886		66	4	6.06
1887		37	i	2.70
1888		35		
1889		48	· · · · · · · · · · · · · · · · · · ·	12.50
1890		114	6 5	4.38
1891		51	4	7.84
1892		81	6	7.41
1893		94	6 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
		105	13	
1902				12.38
1903		70	3 9	4.28
1904		573	9	12 33
1905		57	7 7	12.28
1906		72		9.72
1907		109	14	12.84
1908		102	15	14.70
1909		96	14	14 58
1910		114	13	11.40
1911		570 71	10	14.28
1912	**	71	9	12.67
1913		55	10	18.18
1914		110	17	15.45
1915		33	8	24 · 24
Total (32	weare)	2,431	257	Mean 10·57

MEASLES.—There was a considerable increase in the deaths from Measles, which numbered 123, against 39 in the previous year; 104 of these occurred amongst children under five years of age.

As far as the addresses could be ascertained, visits were paid by the Health Visitors, leaflets of instruction left, and advice as to the care of children given. I have written so often on this subject that there is nothing I can usefully add in this report.

CEREBRO-SPINAL FEVER. For the first time on record this disease exhibited a certain prevalence in Portsmouth. Cerebro-spinal Fever, or Cerebro-spinal Meningitis, sometimes called Spotted Fever, is a disease caused by a micro-organism known as the Meningococcus, which affects principally the brain and spinal cord. It gives rise, as would be expected, to nervous symptoms, and proves very fatal in severe forms. During the last century several outbreaks of the disease occurred in Europe, but it was not prevalent to any marked extent in the British Isles until 1907, when outbreaks occurred at Glasgow, Edinburgh and Belfast. Since the commencement of the war the disease has broken out in various camps and barracks, and it is thought likely that the cases amongst the civilian population are directly or indirectly largely due to the spread of infection from these.

During the year I had brought to my knowledge 109 cases of cerebro-spinal fever in the Borough; of these 62 occurred amongst the civilian population, 21 amongst men in the Army, 16 in men of the Navy, and 10 in the Royal Marines. Of the history of these cases in the Services I am unable to say much, as they were removed out of Portsmouth and treated in naval and military hospitals.

It will be seen from the following table that nearly all the cases occurred during February, March, April, and May, and that with the onset of the summer the disease rapidly disappeared.

DATE OF NOTIFICATIONS OF CASES.

	Civilian	Army	Navy	Marines	Total
January	 _	1	1	2	4
February	 13	7	5	4	29
March	 29	6	2	3	40
April	 11	2	4	_	17
May	 6	3	4	1	14
June	 2	2	_	_	4
July	 _	_	_	_	_
August	 	_	_	_	_
September	 _	_	_	_	_
October	 _				_
November	 1			_	1
December	 -	-	-	_	-
	62	21	16	10	109

The ages of those attacked varied from under 1 year to 70 years, only 4, however, were above 25. The following table gives in concise form some of the principal facts elicited in regard to the cases:—

No.	Address	Age	Sex	Date of Onset	Bacteriological Confirmation of Diagnosis	Isolated in Hospital	If fatal, date of Death
1	Adair Road	4	male	Feb. 11	Yes	No	Feb. 11
2	Heyshott Road .		male	Feb. 12	Yes	No	_
3	Kassassin Street .		male	Feb. 16		Yes	April 18
4	Park Street	10	male	Feb. 12	Yes	Yes	-
5	Lower Church Path . Kassassin Street .		male	Feb. 1 Feb. 17	Yes	Yes	Nov. 7
7	Kassassin Street Stamshaw Road :		male	Feb. 17	Yes Yes	No No	Nov. 7 Feb. 22
8	Hellyer Road		female	Feb. 15		No	1 (0,
9	Kimberley Road .		male	Feb. 19		No	Feb. 22
10	Brighton Street .		female	Feb. 15	No	Yes	May 13
11	St. Ronan's Avenue .		female	Feb. 23	Yes	No	_
12	Timpson Road		male	Feb. 23		Yes	Feb. 27
13		9	female female	Feb. 25 Feb. 28		No	Mar. 9
15	Wilson Road	100	male	Mar. 3	Yes	Yes	Mar. 9
16	Highland Road .	4.00	male	Feb. 25	No	-	April 7
17		17	male	Mar. 1		No	Mar. 3
18		. 8	male	Mar. 2	-	No	Mar. 6
19		. 6	male	Mar. 1		No	-
20		. 18	female	Feb. 28		No	Mar. 10
21		. 7	female	Mar. 6		No	Mar. 11
22		. 8	female	Mar. 8	No	No	Mar. 11
23 24	Highgate Road		female	Feb. 28 Feb. 26		No Yes	_
25	Landport View	- 0	male	Feb. 27	165	Yes	Mar. 14
26	25.41 131	. 10	male	Mar. 3		Yes	Mar. 16
27	Hyde Park Road .		female	Mar. 11		Yes	
28		. 70	male	Mar. 3	_	No	Mar. 26
29		. 2	male	Mar. 11		Yes	Mar. 18
30		. 11	male	Mar. 10		_	Mar. 11
31		. 2	female	Mar. 12		Yes	April 11
32 33		. 4	female female	Mar. 1 Mar. 15		Yes Yes	Mar. 17
34		. 16	male	Mar. 10		No	Mar. 13
35	01 01 1	. 4	female	Mar. 14	_	Yes	
36	Warren Avenue .		female	Mar. 19		Yes	-
37	Martin Road	. 25	male	Mar. 20	_	Yes	Mar. 26
38	North Street, Portsea .		male	Mar. 18		Yes	
39		. 12	female	Mar. 7		Yes	-
40		. 5	male	Mar. 21	Yes	Yes Yes	Mar. 29
42	** (41 * * *)	. 3	male	Mar. 19 Mar. 17			Mai. 20
43		. 10/12	male	Mar. 29		_	100
44	Nile Street	1.7	male	April 1	_	Yes	
45	Control of the Contro	. 3	male	April 7	Yes	Yes	May 23
46	Hertford Street .		male	Mar. 26		No	-
47		. 7	female	April 8		Yes	May 31
48	Grayshott Road .		male	April 15		No Vec	April 23
49 50	ACCOUNT OF STATE OF S	. 10	male	April 16 April 13		Yes	June 9 April 24
51	and the same of th	. 32	female female	April 19		_	April 24
52	25 141 12 1	. 5	male	April 16		Yes	-
53	AL	. 24	female	April 21		Yes	Nay 8
54	22 11 22 1	. 11/12	male	Mar. 22		Yes	_
55		. 1	female	April 30		Yes	May 2
56		. 11	male	April 2		No	April 26
57		. 26	male	April 24	_	_	May 8
58 59		. 23	male	May 1 indefin.	_	Yes	May 8 June 4
60		. 23	female	June 13		Yes	June 4
61	TO 1 11 TO 1	. 25	male	Nov. 11		Yes	_
62	A	. 20	male	(?)	No.	Yes	Aug. 22

SUMMARY.

Total Cases .. 62 Case Mortality 56.4 per cent.

Deaths .. 35 Isolated in Hospital or Infirmary 33 or 51.6 per cent. Diagnosis confirmed by Bacteriological Examination in 22 or 35.5 per cent.

	0-5	6-10	11-15	16-20	20-25	Above 25
MALE	. 13	8	5	6	4	2
FEMALE	. 7	6	3	2	4	2
Total	. 20	14	8	8	8	4

AGES OF PERSONS ATTACKED (Civil population).

In the previous year there was only one case of cerebrospinal fever in the Borough, and this was a baby aged 5 months, who died suddenly, and the Coroner's Jury, in accordance with the evidence of the medical man who performed a post-mortem examination, certified the death to be due to cerebro-spinal fever.

The first case brought to my knowledge this year was that of a private at the Eastney Barracks, in whose case the onset of the disease was said to be on January 15th. suggestion has been made that the disease might have been introduced into Eastney Barracks by some Canadian troops, who played a football match at Eastney against the Royal Marine Artillery, and stayed at the barracks for the night. The circumstances were investigated on behalf of the Admiralty by Temporary Surgeon-General H. D. Rolleston, M.D., F.R.C.P., R.N., who reported as follows: "It is known that four cases of cerebro-spinal fever occurred in the camp at Valcartier, in Canada, that there were three cases during the voyage to this country, and many in their camp on Salisbury Plain: but none of this Canadian team is known to have been a carrier or to have had the disease and none of the opposing Eastney team contracted cerebro-spinal fever. Swabs of the throats of the Eastney team, sent to Greenwich, were found to be negative by Fleet-Surgeon P. W. Bassett-Smith, R.N., C.B. The Canadian team slept in a separate room with some sergeants, none of whom had cerebro-spinal fever, and for the most part kept to themselves. They were, however, shown round Portsmouth by a member of the Eastney team, who was a friend of the private who first contracted the disease, and was also in daily contact with two men who went down with it on January 20th. It was impossible to trace this line of infection any further. If any connection is to be maintained between the Canadian and the Eastney epidemics, it must be assumed that there were at least two undetected carriers, one among the Canadian team, who transferred the infection to a member of the Eastney

team—probably the one who showed them round and was a friend of the private who first manifested the disease. On the other hand, the almost simultaneous outbreak of cases in other parts of the country, and the weakness of the assumption of the hypothetical carriers, make it probable that the epidemic was due to some undetected chronic carrier, and that the Canadians cannot be held responsible for the infection."*

I do not think that the ascertained facts of the cases at Eastney support the suggestion that the disease was introduced into the Borough by the Canadians. Moreover, other cases broke out at almost the same time in other parts of the Borough, one at Hilsea Barracks, at the other end of the town, on January 19th, and two cases at the Naval Barracks, on January 20th and 26th. There were altogether twelve cases notified among men in the Navy and Army from January 15th to February 11th, which was the date of notification of the first civilian case, so that it is fair to assume that the disease was introduced into the district by means of men in the Services. This first case in the civil population was in a child, aged 4, living in Adair Road, Eastney. I found on making enquiries that this child attended the school at Eastney Barracks, and that the same school was used by the R.M.A. recruits, among whom several cases of cerebro-spinal fever had occurred. Whether this was actually the source of infection I am not prepared to say, I know of no recorded cases where the infection of cerebrospinal fever has been deemed to spread by means of infected rooms. It is, however, worth recording, because our knowledge of the methods of the spread of the disease can only be determined by a careful dissection of all the facts which may possibly have a bearing on it. It is interesting to note that three other of the cases attacked also attended this school. As, however, these were all children of men in the Royal Marine Artillery, it is possible that they may have contracted the disease, not from the school, but from intercourse with some possible carriers among the Royal Marines.

The power of infectivity of cerebro-spinal fever is not very high, judging from our experience in this epidemic. In only two houses in which the disease occurred was there more than one case, and in each of these houses the date of the onset in both cases was practically the same, so that both probably contracted the disease at the same time from the one source. Moreover, it is uncommon, though not unknown, for medical men and nurses to contract cerebro-spinal fever from their patients. I think it will probably be found that

^{*} Report on Cerebro-Spinal Fever in the Royal Navy (Aug. 1914—Aug. 1915) by Temporary Surgeon-General H. D. Rolleston, M.D., F.R.C.P., R.N.

the disease only spreads, apart from direct personal contact, such as may occur through a person coughing or sneezing in the face of another, in rooms which are warm, overcrowded and not ventilated. The greatest safeguards against this disease, as against most others, are fresh air, good ventilation

and the avoidance of fuggy rooms.

The theory generally held is that the disease is spread by "carriers," i.e., by persons who have the causative organism (the meningococcus) in their air passages, and these are diffused by coughing or sneezing, and in other ways, and are thus inhaled by other persons, who may consequently contract the disease. It is obvious therefore that as these carriers are as a rule in good health and not under any suspicion, it is extremely difficult to trace the agents by whom infection is carried. A large number of bacteriological examinations of the throats of persons who have been in contact with patients have been made in different parts of the country, in order to discover "carriers." The results, however, have been very far from uniform; in some cases, out of a considerable number of contacts, observers only find 1 per cent. to be carriers. whilst with others the percentage of carriers is said to be as high as 20. Moreover, the practical value of the results obtained from the examination of those who have been in contact with cases of the disease is somewhat impaired by the further discovery that 13 per cent. of persons who, so far as was known, had not been in contact with any case of cerebrospinal fever, were also found to have the specific organism of this disease in their throats.

Assuming the "carrier" explanation of the spread of the disease to be correct, the facts ascertained in regard to some of the following cases are of interest. (I have already mentioned the four cases of children who are presumed to have contracted the disease at the Eastney barracks school.)

E.R., female, aged 23, taken ill on February 22nd. Her brother was a private in the A.O.C., and was sent home from barracks suffering from influenza, which spread to various members of the family, including E.R., in whom the symptoms developed into those of marked cerebro-spinal fever.

In many of the cases investigated, I found there had been a previous history of contacts having suffered from influenza. As the symptoms of some forms of influenza closely resemble those of cerebro-spinal fever, there is in these cases a doubt whether what was termed influenza was not really a mild form of cerebro-spinal fever.

A.M., female, aged 11. Taken ill on February 8th. Two of this girl's sisters had previously taken part in entertainments given to the troops in the Hilsea Hutments, where several cases of cerebro-spinal fever had occurred. Two or three days after this they both suffered from severe influenza, with marked head symptoms.

- F.K., male, aged 8, taken ill on March 3rd. Son of non-commissioned officer in the Royal Marine Artillery, who had been in bed a fortnight previously with severe influenza and head symptoms. The father was examined at Haslar Hospital and found not to be a carrier.
- H.H., male, aged 19. Taken ill on March 1st. Worked at a brewery, where he had to wash empty bottles returned from camps and barracks.
- D.G.I., female, aged 18. Taken ill on February 28th. Had been keeping company with a non-commissioned officer in the Royal Engineers. This man was examined by Captain Leon, R.A.M.C. (T.) and found to be a carrier.
- E.G.A.S., female, aged 3½. Taken ill on February 28th. Had frequently been nursed by soldiers from barracks.
- W.F., male, aged 28. Taken ill on February 26th. Kept a public house, at which the customers were principally soldiers from neighbouring barracks, at which there had been several cases of cerebro-spinal fever.
- C.W., female, aged 14. Taken ill on March 11th. Her father was engaged as a scavenger at the Eastney Barracks.
- V.R.S., female, aged 4. Taken ill on March 1st. Her father, who was employed at the Royal Naval Barracks, had three weeks previously been in bed for three days with severe influenza, with throat symptoms. He was examined at Haslar Hospital, but found not to be a carrier.
- E.B., male, aged 6½. Taken ill on March 1st. This child attended the Eastney Barracks Sunday School, her last attendance being February 21st. Both the child's mother and grandmother, living in the same house, had three weeks previously suffered from severe headache and influenza.
- I.M.M., female, aged 16. Taken ill on March 15th. Her brother in the Royal Navy came home on leave on February 16th, after having been in Haslar Hospital with pneumonia.
- K.M., female, aged 4. Taken ill on February 24th. Daughter of a soldier away from home, she had frequently been nursed by soldiers from barracks.
- J.B., male, aged 17. Taken ill on March 19th. History of a transient influenza which went through the house four weeks previously.
- W.K., male, aged 15. Taken ill April 1st. His brother, living at home, was a private in the Hampshire Regiment.
- T.E.D., male, aged 8 months. Taken ill on April 15th. Father of patient was a petty officer stationed at the Royal Naval Barracks. He was examined at Haslar Hospital, but found not to be a carrier.
- M.B., female, aged 24. Taken ill on April 21st. Her husband was an A.B. in the Navy. He was examined at Haslar, but found not to be a carrier.
- S.R., male, aged 17. Taken ill on February 19th. His sister, living in the same house, had been engaged as a nurse girl in another house where two children were taken ill with the disease on February 25th.

The above are the only cases where it has been possible to trace even a possible source of infection, and in many of these the evidence is not very strong. One or two points have been brought out in the investigations which may be worth mentioning. One was that in the case of

children it was frequently found that the patient has some time previously suffered from a blow on the head. In some of the cases amongst children the disease had followed upon recovery from an attack of measles. In other cases there was a history of other persons in the same house having suffered from influenza, with headache; it is possible that these cases of influenza were in reality mild cases of cerebro-spinal fever. If this is so it might then be concluded that instead of there having been only the 62 cases of cerebro-spinal, namely, those which were notified, there were really a large number of mild cases about the town for whom a doctor was not called in, and that the 62 represent simply the severe cases of a fairly widespread epidemic. In that case the mortality of the actually notified cases, 56.4, would of course represent the disease as being much more fatal than it actually is. This would only represent the mortality-rate of severe cases.

I would add that no examination of "contacts" among the civilian population, in order to discover carriers, was attempted. A number of contacts, who were men in the Navy or Army, were examined by officers in Navy and Army medical branches, and through their courtesy I am enabled to give the results they secured. In regard to the civilian population, it was not carried out for several reasons, the principal being the depletion of my staff; the fact that little practical value could be attached to the results obtained, because at that time the disease had not been sufficiently studied to enable bacteriologists to present a method of examination that could be relied upon; and lastly, amongst the civilian population it is extremely difficult to make any satisfactory arrangement for dealing with a "carrier" should one be discovered. In the Navy and Army this difficulty does not exist, the men are under discipline and can be detained under observation as long as it appears necessary.

Considerable advance in the study of the bacteriology of this disease has been made during the past year, and it is highly probable that in the near future reliable methods for the examination of "contacts" will be evolved, there will only then remain the problem of dealing with such as are found in the civilian population.

As there was no ward available at the Milton Isolation Hospital for cases of this disease, it was arranged, by the kind co-operation of the Guardians, to receive such patients in the Union Infirmary. Later, owing to the absorption of part of the Union Infirmary by the War Office, this was no longer possible, and it was decided to clear the enteric fever wards of the two patients they then contained, and to utilise these

wards for cases of cerebro-spinal fever. This was done at the beginning of March and patients were subsequently admitted and treated there.

I wish to acknowledge the cordial assistance in my investigations always most readily afforded me by Surg.-General Dennis, C.B., R.N., Colonel Jennings, R.A.M.C., A.D.M.S., Portsmouth District, and other Medical Officers of the Services stationed in the District.

POLIOMYELITIS.—No case of this disease occurred during the year.

CANCER.—The number of deaths from Cancer showed an increase of 41 over the previous year, and numbered 238. The Local Authority is still pursuing its policy of issuing leaflets and publishing in the local Press warnings to the public to see early medical advice in connection with the premonitory symptoms of this disease. This, I believe, is undoubtedly having good effect, and resulting in the saving and prolonging of life.

TUBERCULOSIS.—There were 247 deaths from pulmonary tuberculosis during the year, a decrease of two upon 1914. This gives a death-rate of 1.15 per 1,000 living, if estimated on the civil population; if all deaths from pulmonary tuberculosis (including those amongst men in the Services) are taken, the death-rate then, reckoning the total population to be 251,825 (vide page 9), would be 0.94, which would be the lowest recorded death-rate from this disease. The total number of deaths from all forms of tuberculosis was 353.

The total number of notifications received from private Medical Practitioners was 701, and of these 125 referred to cases which had previously been notified. Including 29 cases notified by the School Medical Officer, the total number of new cases brought to the notice of the Health Department during the year was 606.

Owing to the war we have been unable to make any progress toward completing the general scheme for dealing with tuberculosis which was adopted by the Council in 1913. It was hoped that at least we should have been able to commence the proposed tuberculosis hospital of 40 beds, to supersede the present small-pox hospital at Langstone. Plans were prepared and tenders invited; we were prepared to spend £7,000 on it, inclusive, but as the lowest tender that was received for the building was over £18,000, or £450 per bed, nothing further could be done with the plans, and for the present at any rate the scheme has come to a standstill.

Dr. W. H. M. Rees, who had been acting Chief Tuberculosis Officer in the absence of Dr. Fairley on Active Service, left in September to take up the position of Medical Superintendent to the Winsley Sanatorium, and Dr. C. J. Alexander was appointed in his place. Dr. Stephen Green also acted during the year as Assistant Tuberculosis Officer.

As will be seen from the Tables, the total number of patients suffering from tuberculosis treated during the year was 472, of whom 166 were children. Several children, at the instance of the Local Insurance Committee, were sent to the Lord Mayor Treloar Hospital at Alton, and a number were sent to a home at Purbrook by the Care Committee. The latter continues to do good work, in spite of the fact that at the present time, with so many calls on the charitable, the funds available have been very limited.

TUBERCULOSIS DISPENSARY.

The work in this department proceeds very smoothly, and there is little change to be recorded in the routine measures adopted for the control and prevention of Tuberculosis.

The further development of the work has necessarily been prevented by the decrease in the medical staff, owing to the war, and indeed a decline in some of the activities is apparent. It is seen especially in the number of contacts examined during the year, which shows a decided falling off from previous years. This is regrettable, as no branch of the work is of more importance, allowing, as it does, opportunities of getting the disease in the early stage in some, and in many others preventing its onset. A special effort is now being made in this direction, and it is hoped that good results will follow from it. It is cases of this nature, as well as all doubtful cases sent by practitioners, that throw the greatest strain upon the examining officer; it is a comparatively easy matter to examine and classify undoubted cases of the disease; it is usually a most anxious and laborious task to pronounce definitely upon a suspicious case, and often times it is only possible to come to a decision after frequently repeated thorough examinations. The term "March past" so often used in connection with the examination of contacts, is a complete misnomer, and is very misleading, for casual examination of such persons is not only valueless, but may often do harm in giving a patient with early disease a false sense of security, and on the other hand may cause a depressent effect on him, by attaching exaggerated importance to a healed and inactive lesion.

Home visitation is carried out as far as possible by the Medical Officer, and much valuable information is attained thereby, not only in the opportunities afforded him for giving advice on the hygiene of the home, but a personal knowledge of the home surroundings of the patient is of considerable value in helping him arrive at a decision as to the best form of treatment to adopt in each individual case. The tuberculosis nurses visit each home at regular and frequent intervals, to see that the Medical Officer's orders are being carried out, and they render valuable assistance in educating the patient's friends as to the management of the disease, and the methods of preventing its spreading to other members of the family. When possible they arrange for "contacts" to be brought to the Dispensary for examination. Their duties are most important and they are performed in a most painstaking and careful manner.

Tuberculin treatment is still being carried on at the Dispensary in suitable cases and is found a useful adjunct to hygienic and other forms of treatment. It must not be inferred from this that tuberculin is used as a routine measure at the Dispensary. Neither this nor any other form of treatment is slavishly adhered to. Each patient is considered on his own merits, and is given that form of treatment deemed most advisable in his particular case.

The results of treatment are very difficult to estimate. The majority of patients who undergo sanatorium treatment are thereby greatly benefited in general health, and even the focus of disease in many is considerably reduced. It must be borne in mind however that a few months treatment in a sanatorium cannot effect a cure in such a chronic malady as tuberculosis. At most it may affect arrest of the disease and commence a cure, but the ultimate results of treatment depend on so many and so varying factors, that one can hardly hazard a guess as to what these results will be. With this consideration in mind we have felt it useless to prepare elaborate figures giving our results for the year, but a reference to Tables J and K will show that they compare favourably with those of the statistics of any other sanatorium or dispensary.

The routine adopted with regard to patients who have completed their course of treatment, is that they are told to return at once if they have any return of symptoms, and in any case they must not allow more than a month to elapse before reporting themselves. Later on this period is lengthened to two, three and six or more months, according to

circumstances.

LANGSTONE HOSPITAL.

This little institution continues to do useful work, and in spite of its drawbacks, the value of it in the scheme for the treatment and prevention of tuberculosis in the borough cannot be over-estimated. The maximum number of patients that can be taken into the hospital is 19 (7 women and 12 men). Some of the men sleep in huts, so that in very boisterous weather it is not always easy to keep the full number of beds occupied, but on the whole the patients prefer the shelters even in bad weather, partly on account of their privacy, but more because they consider this as evidence of improvement.

The accommodation at Langstone is, however, quite inadequate to the needs of so large a Borough as Portsmouth, and it is only the difficulties of the situation arising from the war that have prevented, or rather postponed, the erection of a larger and more suitable building.

That the present site is a suitable one for such a building is evidenced by the fact that the large majority of patients in whom improvement is to be expected do well at Langstone. In fact, many who make no improvement in other sanatoria are found to derive considerable benefit from a stay there.

The management of the Institution is efficiently carried on by Sister Booker, assisted by Nurse Newton, the whole being supervised by the Medical Officer of the Dispensary, who pays routine visits twice weekly, and at such other times as may be necessary. The treatment adopted is that carried out in most sanatoria, open air, rest, regulated exercise, and such symptomatic treatment as is necessary. A full and varied diet is provided. The hospital is popular with the patients, due in a large measure to the unsparing efforts of the sister and nurses in the discharge of their duties, and to the care and attention which they give to their patients.

In reviewing the results of treatment at Langstone, it must always be borne in mind that a large percentage of patients admitted are in a too advanced stage of the disease to be sent to other sanatoria. In other words their outlook is doubtful. The patient gets the benefit of the doubt. If his improvement is sufficient to justify sending him elsewhere, as a rule he is transferred later to some other sanatorium, if not, he is kept in Langstone while improvement continues. In this way he obtains a valuable object lesson in the way to conduct his future life, and consequently the chances of his infecting others are not so great. In cases with no improvement the patient must of necessity return home, or if his

TABLE A.

PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1912.

Summary of Notifications during the period from 2nd January, 1915, to the 1st January, 1916.

			Nu	mber	of Jo	totifi	cation	no su	Number of Notifications on Form A.	m A.				Numb	er of	Notifica	Number of Notifications on Form B.	No. of Notifica- tions on Form C.	Jotifica- Form C.
				l d	Primary Notifications.	Z.	offfice	tion	nô.				Total Notifications	Primary Notifications	Noti	fications	Total Notifications	Poor	
	0 0 -	- 9 w	5 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	0 o i c	15 to 20	25 25 25	35 35	35 5 5 5	to 15	55 to 65	65 and upw.	Total Primary Notiffus	Form A.	under t	5 0 10	10 to Total	0 0	Law Institu- tions	Suna- toria
Pulmonary:			1																
Males	:	01	7	00	11	17	19	37	61	=	01	175	235	:	00	00	6	24	58
Females	:	9	12	13	#	53	150	82	8	=	3	188	226	7:	00	7 10	11	21	36
Non-Pulmonary:																			
Males	10	22	57	14	00	9	6	80	-	:	:	110	120		_	7 8	6	1	10
Females	9	20	30	23	9	00	6	60	00	-	:	103	120	10		3	4	10	10

home conditions are such that others are likely to run risk of infection, efforts are made to have him admitted to a home for advanced cases.

In a place like Langstone, with open wards, which serve the combined function of dining room, recreation room, smoke room, and living room for all patients, obviously the presence in the ward of a patient who is very ill is a source of great distress to his fellows. Such a patient cannot be retained either in fairness to himself or the other occupants of the ward. Until separate rooms can be provided for such patients it will unfortunately be necessary for them to be nursed elsewhere.

TABLE B.

TABLE OF OCCUPATIONS OF PATIENTS.

Housewives		42	Clerks	 8
Dockyard Work:			Charwomen	 2
Fitters		2	Teachers	 2
Labourers		11	Railway Workers	 7
Shipwrights		7	Insurance Agents	 2
Boilermakers		3	Baking Trades	 3
Joiners		1	Hawkers	 1
Blacksmiths		2	Tailors	 8
Other Trades		7	Public Officials	 2
Storemen		1	Laundry Work	 2
Writer		1	Printing Trades	 2
		35	Hairdressers	 3
			Musicians	 1
Domestic Service		7	Single Trades	 6
Factory Workers		15	No Occupation	 7
Building Trades		6	Dressmakers	 5
Shop Assistants		10	Seamen	 3
Service Invalids:			Barmaid	 1
37		16	Labourers	4
1		8	1/abouters	
Army	- 11	24		208
		24		200

TABLE C.

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

	Tubercular	Diagnosis Incomplete	Not Tubercular	Total
Adults	208	6	106	320
Children	166	3	72	241
TOTAL	374	9	178	561

TABLE D.

Showing particulars of 380 Patients found to be Tubercular.

Showing Age and Sex Table—Adults.

		16-19	20-29	30-39	40-49	50-59	60 & Over	Total
Male		12	36	38	23	9	2	120
Female		12	35	31	6	4	0	88
			Age and	1 Sex Tal	DIE-CHIL	DREN.		
-	-		Age and	1 Sex Tal	ole—CHII,	DREN.	1	1
		0-4	Age and	7-8	9-10	11-12	12-15	Total

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

12

Female ..

12

12

18

77

		Pulmonary	Pulmonary Other Organs	Non-Pulmonary	Total
Adults		185	8	15	208
Children		41	10	115	166
TOTALS	5	226	18	130	374

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

		Males	Females	Children	Total
Glands		 2	2	99	103
General Tul	perculosis	 1	/-	_	1
Joint		 2	1	6	9
Ovary		 	1	_	1
Abdomen		 		1	1
Peritonitis			1	3	4
Kidney		 1		_	1
Spine		 1	_	2	3
Knee		 .1	_	_	1
Hip		 	1	3	4
Osteitis		 1		_	1
Nose		 _	_	1	1
	TOTALS	 9	6	115	130

TABLE G.

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

 Stage I.
 Stage II.
 Stage III.
 Totals.

 72
 87
 85
 244

Tubercle Bacilli were found in 67 of the above cases, i.e., in 49 males and 18 females. One child is included among the 49 males.

TABLE H.

This Table gives particulars of "Contacts" who were examined at the Dispensary.

	Tubercular	Not Tubercular	Totals
Adults	 8	27	33
Children	 21	22	43
TOTALS	 27	49	76

TABLE I.

Showing the number of Patients under treatment during the year.

Under treatment December 3	1st, 1914	 98
Taken on during 1915		 374
		472
Discharged during 1915		 109
Still under treatment at end of	of 1915	 363

70 patients have completed a course of tuberculin during the year, 48 have had a course of more than three months, and 22 for less than that time.

TABLE J.

Patients discharged during 1915 after three or more months' tuberculin.

ADULTS. PULMONARY ONLY.

		Arre	sted	Bet	ter	Sar	me	Wo	rse	Di	ed	To	ta1
Stage I		M 1	F 3	M -	F 4	M -	F -	M -	F -	M -	F -	M 1	F
Stage II		2 .	2	2	4	1	-	1	1	-	-	6	47
Stage III		1	1	4	3	2	2	-	-	1	-	8	(
TOTALS		4	6	6	11	3	2	1	1	1	-	15	20
				NON	-PUI	MON	ARY.						
		-	-	-	1	-	-	-	-	-	-	-	
	_												
				PULM		OREN RY (
15		Arre			IONA		ONLY	Wo	rse	Di	ed	То	tals
		Arre	sted F	PULM Bet M	ter F	RY (ONLY	1	F	Di	F	M	tals
			sted	PULM	ter	RY (DNLY me	Wo					
Stage I			sted F	PULM Bet M	ter F	RY (DNLY me	Wo	F		F	M	
Stage II		M _	F -	PULM Bet M	ter F	RY (DNLY me	Wo	F -		F	M	
Stage II Stage III TOTALS		M _	F -	PULM Bet M	ter F -	RY (DNLY me	Wo	F -		F	M	
Stage II Stage III		M _	F	Bet M 1 1	ter F	RY (DNLY me F	Wo	F -		F	M 1	

TABLE K.

Patients discharged under Three Months' Treatment.

	Arres	sted	Bet	ter	Sai	ne	We	rse	Di	ed	Tot	als
211	M -	F 1	M 1	F 2	M _	F -	M -	F -	M -	F -	M 1	F
	-	-	3	1	1	-	-	-	-	1	4	-
٠	-	-	1	2	-	-	-	-	3	2	4	
	-	1	5	5	1	/-	-	-	3	3	9	
			NON-I	PULM	IONAI	RY.	,					
	-	-	-	2	-	-	-	-	-	-	-	
						DV						
1			14014	1 017	I CINE	LACT,	1			-	1	_
	*	M	1	M F M 1 1 3 ' 1 1 5 NON-1	M F M F 1 1 2 3 1 1 5 5 NON-PULM 2 CHILDI	M F M F M 1 1 2 3 1 1 1 2 1 5 5 1 NON-PULMONAL 2 - CHILDREN.	M F M F M F 1 1 2 3 1 1 1 5 5 1 - NON-PULMONARY. 2	M F M F M F M 1 1 2 3 1 1 1 5 5 1 NON-PULMONARY. 2 CHILDREN.	M F M F M F M F 1 1 2 3 1 1 1 5 5 1 NON-PULMONARY. CHILDREN.	M F M F M F M F M 1 1 2 3 1 1 3 1 5 5 1 3 NON-PULMONARY. CHILDREN.	M F M F M F M F M F 1 1 2 1 1 2 3 2 1 5 5 1 3 3 NON-PULMONARY. CHILDREN.	M F M F M F M F M F M F M 1 1 2 1 4 1 2 3 2 4 1 5 5 1 3 3 9 NON-PULMONARY. CHILDREN.

TABLE L.

Giving particulars of the Cases in which Tubercle Bacilli were found in the Sputum.

14 of these cases were not treated here, for the following reasons:—

5 refused treatment

4 left town

1 was referred to the Infirmary

3 were referred to doctor

1 was not traced

Of the remaining 115 cases, 57 were discharged and 58 still under observation at the end of the year.

TABLE M.

Showing results in the 57 cases which were discharged during 1915, and in which tubercle bacilli were found in the sputum.

ADULTS.

		Arre	ested	Bet	ter	San	me	Wo	rse	- Di	ied	То	ta1
Stage	I	 M 1	F	M -	F -	M -	F 1.	M -	F -	M -	F -	M 1	F 1
Stage	11	 -	1	2	-	2	-	1-	-	-1	4	6	5
Stage	ш	 2	-	4	4	3	1	-	-	21	9.	30	14
	TOTALS	 3	1	6	4	5	2	1	-	22	13	37	20

TABLE N. LANGSTONE HOSPITAL

	Ma	iles	Fen	nales	Child	lren	Totals
	Insured	Non-Insrd	Insured	Non-Insrd	M.	F.	
In Langstone Dec. 31st, 1914	7	-	4	3	-	-	14
Admitted during 1915	43	3	-19	18	1	1	85
TOTALS	50	3	23	21	- 1	1	99
Discharged during 1915	40	3	18	18	1	-	80
In Langstone Dec. 31st, 1915	- 10	-	5	3		1	19

TABLE O.

Showing the state of health at the end of 1915 of the 80 patients discharged from Langstone Hospital during the year.

		Better	Same	Worse	Died	Totals
Males In	sured	12	13	4 -	11	40
Uı	ninsured	1	- 175	2	-	3
Females In	sured	7	8	1	2	18
Uı	insured	9	4	4	1	18
Children		-	-	1 .	-	1
TOTAL	3	29	25	12	14	80

TABLE XVI.

Chart showing Death-rate from Pulmonary Tuberculosis per 10,000 Population since 1885.

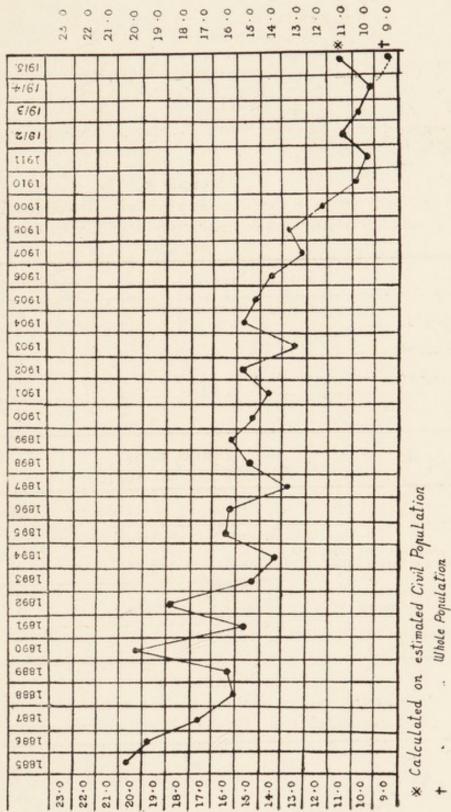


TABLE XVII.

Table showing the number of Deaths and Death-rates per 1000 living from TUBERCULAR DISEASES for Thirty-seven Years (1879 to 1915).

Year	Pulmor Tubercu	nary	(2) Tubercular Meningitis,	(3) Other forms of	Totals Cols. 2	
	Deaths	Rate	Hydrocephalus Deaths	Tuberculosis Deaths	Deaths	Rate
1879	271	2.05	44	58	102	-73
1880	234	1.74	49	81	130	.96
1881	275	2.14	44	61	105	.8
1882	269	2.07	33	67	100	-7
1883	262	1.96	41	72	113	.8
1884	292	2.12	34	62	96	- 6
1885	290	2.06	36	54	90	- 6-
1886	285	1.98	38	85	123	- 8
1887	261	1.77	41	95	136	.9
1888	240	1.60	38	90	128	.8
1889	251	1.63	35	93	128	.8
1890	319	2.03	37	57	94	- 6
1891	252	1.57	41	86	127	-7
1892	308	1.89	31	51	82	.5
1893	254	1.53	32	59	91	. 5
1894	241	1.43	21	50	71	- 4
1895	280	1.64	43	50	93	.5
1896	283	1.63	51	55	106	.6
1897	245	1.38	39	33	72	-3
1898	277	1.54	37	57	94	- 5
1899	295	1.61	40	64	104	.5
1900	286	1.53	42	53	.95	- 5
1901	278	1.47	37	91	128	- 6
1902	308	1.58	31	51	82	- 4
1903	269	1.35	35	34	69	.3
1904	321	1.58	44	32	76	.3
1905	314	1.52	42	25	67	- 3
1906	306	1.45	38	36	74	- 3
1907	282	1.31	47	36	83	.3
1908	300	1.36	39	38	77	.3
1909	272	1.21	41	33	74	. 3
1910	249	1.09	40	23	63	. 2
1911	239	1.02	36	23	59	. 2
1912	267	1.13	30	46	76	. 3
1913	264	1.08	41	40	81	.3
1914	249	1.01	33	52	85	•3
1915	233	1.15	51	69	120	.5

o Calculated on estimated civil population.

TABLE XVIII.

WEEKLY RETURN of cases of Infectious Diseases reported in accordance with the Infectious Disease (Notification) Acts, 1889 and 1899, during the year 1915.

		×	ever	, et	Fer	vers		p	as	Spinal	elitis	
Week endi	ng	Small-pox	Scarlet Fever	Diphtheria	Enteric	Con- tinued	Typhus	Puerperal Fever	Erysipelas	Epidemic Cerebro Spinal Meningitis	Poliomyelitis	Tota
1915			10	1.9				,				00
January	9		10 19	13	3			1	5	i		26 37
**	23	::	13	6					2	2		23
,,	30		13	33	2			1		1		50
February	6		20	16	3				6	4		49
**	13		9	22	3				1	9		44
**	20		9	21 11	3				1 5	7 8	* * *	41
Morrols	27 6		19	17	i				6	8		30 51
March	13		12	21	î			**	2	12		48
33	20		8	16					2	11		37
,,	27		19	14	1			1	3	9		47
April	3		21	9	3				4	5		42
,,	10		12	9					.:	5		26
11	17		19 20	7 20	1 3				4	4		35
Mari	24		12	14	3					3 4		47 33
May	.8		21	17					5	5		48
**	15		17	16	1				3	3		40
,,	22		16	13					2	2		33
,,	29		14	13	2			1	2			32
June	5		16	11	1.6				1	1		29
11	12		13	17				**	3	1		34
**	19 26		5 10	21 32	2				1	1		29 43
July	3		12	23	1				2	**		38
	10		11	21	2				1			35
**	17		19	11	2							32
**	24		27	29	6			1				63
**	31	**	10	13	1				1			25
August	7		16	11	2					***		29
23	14		24 8	12 9	3 2				2 4			41 23
11.	21 28		15	16	2				1			34
September	4		17	12	1			1	î			32
,,	11		20	15	5				2			42
,,	18		24	26	5				1			56
,,	25	111	12	34	8							54
October	2		22	26	7							55
**	9		27 29	24 23	3 2				**	4.4		54 54
**	16 23		25	19	2				6		• • •	52
,,	30		24	24	2				1			51
November	6		23	24					1			48
,,	13		26	14	2				4			46
.,	20		26	22	2			**	5	1		56
."	27		24	21	.:				3			48
December	4		19 19	21 24	1				5			46 47
"	11 18		31	14	i				4			47
"	25		13	17	1							31
January	1		9	20	1				4			34
Totals			885	923	97			6	109	107		212

VENEREAL DISEASES.—It has long been on my conscience that I ought to draw the attention of the Local Authority to the effect on the public health of the venereal diseases—syphilis and gonorrhoea. Although the present may not be, in some respects, the most opportune time for the institution of a system of municipal activity in the direction of prevention and cure of these diseases, I think the subject may well be broached in this report, with the view to inducing members to think over the matter, so that when a scheme is submitted for dealing with them, the subject will have been in some extent under review.

The ill effects caused by syphilis and gonorrhoea have in the past been insufficiently appreciated. It is now becoming evident that many diseases of middle life, which at one time were not thought to be connected with a previous attack of venereal disease, are, in fact, attributable to that source. Without specifying these by name, it is now generally accepted that they include a very large proportion of the various forms of heart disease, diseases of blood vessels, and affections of the nervous system. Further, syphilis is a frequent cause of antenatal death, abortion, miscarriage, still-births, and deaths in infancy. It cannot be disputed that venereal disease and its sequellae are having a powerful and baneful effect upon the public health.

Up to the present time the prevention and treatment of venereal disease has been a matter that local authorities have fought shy of. Not only this, but voluntary hospitals and other institutions have also refused in many cases to treat persons suffering from these diseases. This attitude on the part of hospitals is not logical; moreover, it is impractical in view of the fact that in every large hospital a large number of the beds are usually occupied by persons suffering from the sequellae of venereal diseases. The attitude on the part of the public towards venereal disease is aptly described in a Local Government Report on Venereal Diseases, issued in 1913. It is as follows:—

"Much of the difficulty of dealing with venereal diseases arises from the conception of venereal diseases as the just retribution of sin . . . Without going into the subject at length, it may be said that even if venereal diseases were spread by sexual intercourse alone, which is not the case, a retribution that falls upon innocent women and children, and with equal force upon a raw youth or girl as upon the vicious and abandoned, is not remarkable for its justice. This attitude of mind, however, prevails amongst a large section of the public. It prevents the charitable from

subscribing towards the proper cure and treatment of venereal diseases, it influences our general hospitals through their lay committees against the provision of accommodation for these diseases, and it emphasizes the stigma and disgrace attached to the inmates of lock hospitals and the lock wards of our Poor Law institutions. While it operates as a deterrent to the provision of proper treatment, it operates still more seriously by leading to concealment of the disease, and by preventing sufferers from seeking the aid and advice which is essential for their cure and for the prevention of the spread of the disease."

I believe the foregoing is unfortunately a correct representation of the state of mind of a large proportion of the public. One of its lamentable effects is that persons who contract venereal disease, instead of securing adequate medical treatment, are driven to consult unscrupulous quacks, with the worst possible results to themselves. It is a thousand pities that such an attitude should exist. That it is due to ignorance and a lack of appreciation of the facts connected with venereal disease is certain. It is doubtful whether the innocent victims of the disease do not nearly equal in number those whom some persons may regard as suffering a just retribution.

This should certainly not be the attitude of the Local Sanitary Authority. I suggest that for them the following are three incontrovertible facts, the time for the consideration of which has fully arrived:—

(1) There exist in the Borough certain infectious diseases, widespread, causing ill-health and death, and adversely affecting the health of large numbers of the population.

(2) That proper medical advice and treatment can do much to effect a cure and cut short the infectivity of these diseases.

(3) That Health Authorities, not only here, but throughout the country, are doing practically nothing to protect the inhabitants of their districts against these diseases.

In this town, so far as I am aware, the only public provision for the treatment of persons suffering from venereal disease is that of the Union Infirmary. At one time there were lock wards for females at the Royal Hospital; these, however, were closed some years ago, when the grant made by the Admiralty was discontinued.

I hope that eventually the Local Authority will consider that an obligation rests upon them to take steps, so that means shall be provided by which persons, of both sexes, suffering from venereal disease may receive proper medical treatment.

For many reasons, into which I will not enter at this stage, I believe that this treatment would be most effectively carried out in connection with the Royal Hospital, but in special wards, and given by a specially trained medical man, the cost of the wards, both for indoor and out-patients and the salary of the medical officer being borne by the Local Authority. Above all things there is required the provision of the means for affording early and accurate diagnosis, with skilled advice and adequate treatment for all affected persons. Further, the general atmosphere pervading the management must be somewhat different to that too often associated with the institutional treatment of venereal disease in the past; patients should not be treated as if they were the pariahs of society, but should be treated with consideration and a due regard to their feelings. Only by this means will their confidence be gained, their regular attendance for treatment secured, and some control over the disease in the Borough obtained.

The consideration of venereal disease is a matter which, for obvious reasons, has long been tacitly avoided. The result has been that no effective comprehensive measures have been instituted to control its ravages. Surely, however, it is time for local authorities to determine what may be termed the ostrich policy in regard to so serious a disease, I respectfully submit that the prevention and treatment of venereal disease is essentially a subject in which Local Authorities should take the lead, not only because it is a most difficult subject for private charity to deal with satisfactorily, but also because it is a matter very materially affecting the health of inhabitants of those districts for which Local Authorities are responsible.

INFANTILE MORTALITY AND CHILD WELFARE.

The total number of deaths of infants under one year was 433, compared with 485 during the previous year. The infantile mortality rate, *i.e.*, the number of deaths under one year per 1000 births, was 87, a slight increase on the previous year, which was 84.8, but still considerably under the average of the past 10 years, which is 106 deaths per 1,000 births. An infantile mortality rate of 87 is extremely low for a large town, and it was not reached last year by any other town in the Kingdom of the size of Portsmouth; the average rate for the 20 largest towns was 118 deaths per 1,000 births.

The total number of births notified was 4,705, and out of these 4,046 were visited by the Health Visitors, who subsequently paid 4,340 secondary visits to such cases as most urgently required them. It is satisfactory to note that the practice of mothers nursing their babies is on the increase, and that, at least, during the first month only 6 per cent. of the babies were being artificially fed. I have not been able to compare these figures with those for other towns, so am unable to state whether the favourable infantile mortality rate in this Borough is due to a larger portion of the babies being breast fed than in other places. It is a fact that cannot be too strongly impressed on the public, that natural fed babies have a far better chance of life than have those artifi-This is shown most markedly in the case of epidemic diarrhoea, for out of the 21 babies under one year who died from this disease, 17 were artificially fed and only 4 breast fed. There were five deaths from epidemic diarrhoea amongst infants from one to two years, and of these three had been weaned when a few weeks old.

There were 28 cases of ophthalmia neonatorum (inflammation of the eyes amongst the new-born) notified during the year. All were visited by the Health Visitors, and it is satisfactory to report that none of the babies lost their sight but all made complete recoveries. I think that in justice this result must at any rate be attributed to the assistance of the Health Visitors, who paid altogether 200 visits to these cases. Ophthalmia neonatorum is a frequent cause of blindness amongst children, especially when it has been set up by venereal disease.

The number of Health Visitors (three) is not sufficient to allow of as much visiting to mothers as could be desired, and our practice is to try and follow up those obviously in need of advice and assistance, to the neglect of others in whom the need is not so obvious. Owing to the difficulty of securing properly trained visitors the time is possibly inopportune to increase the staff in this respect, but with the increase in work, and with the necessity of rearing as large a proportion of babies as possible, which is becoming urgent from the economic standpoint, if from no other, the subject is one for early consideration.

The total number of Midwives on the register during the year was 46; they attended 3,100 cases, or 62 per cent. of the total births. Medical assistance was sent for, in circumstances required by the Rules of the Central Midwives Board, in 260 cases; there were 74 still-births. 56 visits of inspection were paid to midwives, and 670 to midwives during their

attendance on cases. There was no case of puerperal fever notified during the year, and no case of malpractice occurred. I interviewed two unregistered women who had attended confinements, but in both cases I was satisfied no intentional infringement of the Midwives Act had occurred, and that it was unnecessary to take any legal proceedings.

I am very glad to be able to report that during the year the Local Authority decided upon a most important extension of the work for the prevention of infantile mortality and for the advancement of child welfare. The action taken was initiated by the following report presented to the Health Committee in July:—

To the Chairman and Members of the Health Committee.

GENTLEMEN.

The present is essentially a time when everything possible should be done by the Municipality to preserve and improve infant life. That action should be taken is urged both by the Local Government Board and by the Board of Education. This Committee has already done very good work in connection with infant life (as witness the fact that the infantile mortality of Portsmouth is the lowest of any town of its size in the Kingdom) but much more could be effected.

What is needed is a centre where mothers can come and bring their babies and receive advice in matters of child hygiene. This work has been already carried out to some extent by the Health Visitors, with considerable success, at their office at the Town Hall; but now something further is needed, the scope of the work should be enlarged and amplified, and a centre should be established elsewhere.

At the present time there is little poverty or lack of money, but there is, and always has been, a considerable lack of knowledge of baby hygiene, and it is for this reason that so many babies are allowed to grow up into weakly children. It is to correct this that the Health Committee should forthwith establish a Maternity and Child-Welfare Centre.

This Centre would consist of a few rooms (four or five would be enough to start with), situated in a suitable part of the Borough. To start with, the centre would be open for two or three afternoons a week. As the work grows and becomes a success, as I feel certain it will, other sub-centres can be established in other parts of the Borough. At this centre mothers will be encouraged to bring their children, and will receive advice from competent persons on all sorts of matters connected with child welfare. By far the most important matter in regard to children is the question of diet; other subjects are nursing, clothing, exercise, sleeping arrangements, etc. In addition, lectures will be given to mothers on various subjects connected with maternity, on the preparation of food, on food values, on child hygiene, and other allied subjects. In fact the object aimed at will be to make the place a centre for disseminating knowledge on all matters connected with the healthy upbringing of children.

The staff required at the centre would be-

 A Medical Officer to attend two afternoons a week, to give advice in difficult cases, and to give lectures.

- (2) A Superintendent, who should be a trained nurse and qualified midwife.
- (3) Health Visitors. These would be the Health Visitors belonging to the Health Department, and also voluntary workers, of whom I anticipate no difficulty in securing a sufficient number.

As regards finance. Fortunately this need be a very small matter, and also it must be borne in mind that half the expense will be borne by the Local Government Board. Roughly estimated I do not think it need cost the Corporation at the outside more than £125 a year, made up as follows:—

Rent of rooms, lighting					m £60
Salary of Medical Office	er for two	or three	hours	twice	
a week					£50
Salary of Superintender	nt for three	afternoo	ns per	week	£25
Furnishing rooms					£50
Other maintenance exp	penses, prin	ting, sta	tionery	, and	
sundries					£50
Contingencies					£15
					£250
Less Local Government	t Board Gra	int			£125
		Total	Cost		£125
		Total	Cust		2140

These centres have already been established in other towns, and have been found most successful. The management would be in the hands of the Health Committee, who might relegate it to a sub-committee, which might with advantage co-opt some ladies specially qualified for the work.

I regard the establishment of a Maternity and Child-welfare Centre as a matter of great urgency and importance, and I sincerely hope the Committee will approve of this scheme, or some modification of it, and will recommend its adoption to the Council, so that the work may be commenced without delay.

I have the honour to be, Gentlemen, Your obedient servant,

> A. MEARNS FRASER, Medical Officer of Health.

This Report was agreed to by the Health Committee, and the principle of establishing a Maternity and Child Welfare Centre was adopted by the Council at its meeting on August 10th, when the Health Committee were authorised to do the following:—

- (1) To rent suitable rooms in a central part of the Borough for use as a Maternity and Child Welfare Centre.
- (2) To appoint the necessary Staff. Apart from the existing Officers of the Department and the Voluntary Workers, there will be required one Medical Officer for two or three afternoons a week, and a Superintendent for three or four afternoons. Possibly also a Caretaker may be required. The proposed salary of the Medical Officer is £50, and of the Superinten dent £25 per annum

- (3) To purchase such furniture, fittings, case books, and equipment as may be necessary.
- (4) To expend altogether on the Centre a sum not exceeding £250 during the year, and at the end of the year to report to the Council fully on the work done, and the manner in which the money has been expended.

A special sub-committee of the Health Committee was appointed to carry out the above. After going into the matter very carefully, this sub-committee reported that the premises known as 182 Fratton Road were the most suitable of those available for use as a Centre, and it was decided to take these at an annual rental of £50. Certain alterations were made, which give us one large room on the ground floor and first floor, and two consulting rooms on the first floor. There is also a covered-in shed and stables at the rear, which can easily be adapted for housing perambulators during wet weather. The situation is very good, being right in the centre of a large working class neighbourhood. Owing to delay in getting the alterations completed, the Centre was not opened till after the end of the year, but is now thoroughly equipped and a most satisfactory work is being carried out there.

The Medical Officer is Dr. Christian Matthews, who has undertaken the work for the duration of the war, and who had previously carried out very successful work at a voluntary school for Mothers organised at premises in Lake Road by the National Union of Women Workers. The work will undoubtedly grow in the future, and will necessitate the opening of at least two sub-centres in other neighbourhoods in the Borough. I look forward to very effective work being accomplished at this Centre in reducing infantile mortality in the Borough. I would like to report here that good work in the direction of child welfare had previously been carried out for some time at rooms in Lake Road by a Committee of the National Union of Women Workers, and we have the advantage of the help of many of these ladies, who are now giving their services at the Municipal Centre.

Chart showing number of Deaths under 1 year of age to 1000 Births in Portsmouth, 1886-1915.

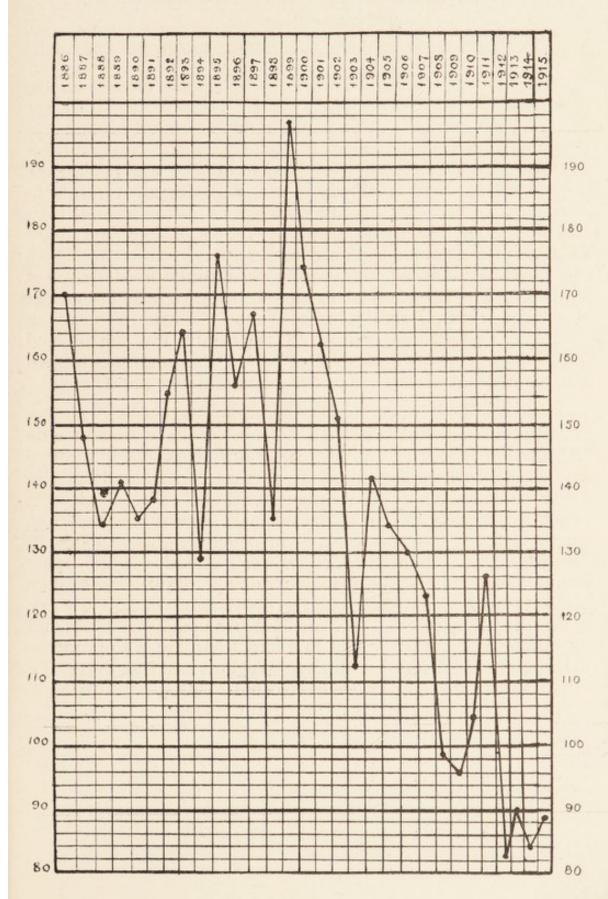


TABLE XIX.

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

Week end		Temper	ature	Earth '	Therm.	Rain in inches	Deaths from Diarrhoe
1913		Max.	Min.	1 ft.	14 ft.	in inches	Daimo
July	17	 64	53	63 · 3	61 · 3	1.29	1
,,	24	 65	55	63 · 0	60 · 7	-67	2
**	31	 66	54	64.5	61 · 0	-31	
August	7	 - 67	58	64 · 1	61 · 6	-28	
,,	14	 80	59	67 - 1	62 · 4	-14	2
,,	21	 68	54	64 - 1	62 · 7	-42	1
,,	28	 71	55	64 - 5	62 · 1		2
September	4	 63	50	60 · 7	62.0	-61	
,,	11	 68	49	59.3	60 - 4		2 5
**	18	 70	56	62 · 4	61.5	-18	5
**	25	 67	55	61.5	61.0	1.88	3
October	2	 56	43	55.0	60.0	1.32	3 3
,,,	9	 59	47	53.0	57.4		3
,,	16	 60	50	54.6	56.5	.04	2
11	23	 58	46	52 · 2	56 · 1	- 66	2
,,	30	 54	42	49.7	55.0	1 · 73	
November	6	 50	40	46.6	53.0	.70	3
,,	13	 51	40	45.8	51 - 2	1.53	
,,	20	 45	31	40.7	49.7	-13	
19	27	 42	32	40.0	47.5		2

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

Draman		RES	SULT	TOTAL
DISEASE		Positive	Negative	TOTAL
Diphtheria		 243	536	779
Tuberculosis		 66	221	287 21
Enteric Fever		 8	13	21
Other Diseases		 21	10	31
	TOTAL	 338	780	1118

ROLL OF MIDWIVES PRACTISING WITHIN THE BOROUGH OF PORTSMOUTH,

ICE.	6th, 1915							***	***						***	3.6		11								**
DATE OF NOTICE.		.6th,	6th,	7th,		6th,		6th,	6th,	6th,	6th,	6th,	6th,	31st,		5th,	6th,	6th,	11th,	10th,	6th,	6th,	6th,	6th,		6th,
DATE (January	:			January	June	January	66		2	-	2		May	January	0	*	66	***	-	64			1		June
Date of Certificate.		April 26th, '06	Oct. 15th, '08	June 22nd, '14	April 28th, '04	Feb. 20th, '15	Aug. 7th, '12	June 30th, '04	April 28th, '04	April 27th, '05	Mar. 23rd, '05	Jan. 26th, '05	Feb. 22nd, '06	Oct. 28th, '12	Mar. 23rd, '05	21st,	27th,		Dec. 22nd, '04	Sept. 30th, '10	Dec. 22nd, '04	Feb. 23rd, '05	Mar. 24th, '04	April 28th, '04		April 28th, '04
No. of Cert.	20448	23295	27020	40242	4208	41688	36435	5487	3853	19208	5703	11585	23045	36802	15559	6226	9290	23268	10663	31908	11214	14211	2640	3625		3900
Address.	170 Talbot Road, Southsea	226 Sultan Road, Buckland	136 Queen Street, Portsea	10 Curzon Howe Road, Portsea	47 Aylesbury Road, Copnor	22 Besant Road	300 Queen's Road, Copnor .	128 Prince Albert Road	227 Lake Road, Landport	5 Addison Road, Southsea	10 Henrietta Street, Southsea	35 Herbert Street, Mile End	232 Chichester Road, North End	14 Heidelberg Road .	105 Toronto Road, Buckland	47 Mafeking Road, Eastney	42 Simpson Road, Stamshaw	83 Cottage Grove, Southsea	219 St. Augustine Road, E. Southsca.	133 Eastfield Road, Southsea	2 Highland Street, Eastney	5 Norfolk Square, Southsea	- 135 Powerscourt Road, North End ,	64 Shearer Road, Buckland	" Bold Forester," Albert Road,	Southsea
CHRISTIAN NAME.	Charlotte	Eliza L.	Elizabeth	Emily Jane	Kate	Henrietta	Annie Eliza	Mary Ann Leah	Charlotte Mary	Ida	Mary	Eliza Ann	Ada Lavinia	Sarah Jane	Annie	Mary	Eliza Ann	Clara Sarah	Jane Elizabeth	Lucy Rowe	Charlotte	Maria	Catherine	Elizabeth	Catherine	
	:		:	:	:		-		:		-		:			:						:	:	:	:	
SURNAME.	Adams	Barnes	Barnes	Broughton	Challis	Chester	Cooper	Elliott	Feehally	Flynn	Golding	Gray	Gwyther	Gerichê	Hayes	Holloway	Humphrey	Jago	Jeffrey	Kean	Kerby	Langstreeth	Lawrence.	Maxfield	Mills	
	-	01	60	4	10	9	7	00	6	10	11	12	13	1+	15	16	17	28	18	50	121	150	23	24	52	

ROLL OF MIDWIVES-Continued.

E	1915	:	11				16		33	11			**	2	11	333	11		3.3		11
Norr	5th. 1915	9th,	6th,	6th,	11th,	5th,	5th,	5th,	5th,	7th,	5th,	Sth,	27th,	5th,	6th,	26th,	7th,		7th,	6th,	23rd,
OF 3			_		-								67			67					61
DATE OF NOTICE	Tannary						4.6	3.3	2	6.6			11	33	2				9.9		Sept.
	60		-	6	0.5	04	114	114	60,	10	80.	105	14	0.0	.05	113	10		10	114	1
of cate	Dec. 17th '13	11, '11	1, '12	24th, '09	*						8				23rd, '(13th, '1	Ъ, 705		Mar. 23rd, '05	th, '1	Aug. 10th, '15
Date of Certificate	171	z. 8tl	May 2nd,	r. 24t	Mar. 23rd,	Oct. 27th,	April 28th,	April 28th,	June 19th,	fan. 26th,	Dec. 16th,	di 27	. 11	r. 25t	v. 23	e 13	. 26th,		r. 231	Aug. 10th,	3. 10
0	Dec	Aug	Ma	Mai	Mai	Oct	Apı	Apı	Jun	Jan	Dec	April 2	Feb.	Mar.	Nov.	June	Jan.		Mai	Aug	Aug
No. of Cert.	39421	34248	35808	3388	5662	8755	40133	40133	28886	11818	27750 .	18246	41376	15515	22860	38470	11514		17931	40927	42960
N O	39	34	35	8	15		4	9	28	=	27	18	Ŧ	15	22	38	=		17	40	42
																-	-		:	:	:
ADDRESS.	117 Church Road, Landbort		-	80 Methuen Road, Eastney	21 Montgomerie Road, Southsea	492 Commercial Road, Mile End	146 Powerscourt Road, Copnor	22 Besant Road, Landport	23 Derby Road, Stamshaw	75 Winter Road, Southsea	14 St. Mary's Road, Kingston	3 Posbrook Road, Milton	22 Folkestone Road	16 St. George's Square, Portsea	1 Collins Road, E. Southsea	Berkeley House, Hollam Road	17 Exeter Road, E. Southsea	4 Jacob's Terrace, Aylward Street,	Portsea	83 Cottage Grove, Southsea	32 Brompton Road
CHRISTIAN NAME.	Flizabeth	Α.			Mary Ann		Jane .	Jane Ann	Ann	Victoria May	Mand Mary	Lily Mary	nnie	Ellen .	Ellen Mary	Kathleen B.	Rebecca	Laura .		Rose .	Alice
		: :	:	:	:	:		:		:	:		:	:	:	:	5	:		:	:
															0						
SURNAME.	Milk	Parkington	Paul	Phillips	Pigg	Ricketts	Rust	Scholfield	Silvester	Stevens	Sansome	Taylor	Treadgold	Tomes	Trowbridge	Vincent	Westropp	Wheeler		Wickens	Waters

TABLE OF ANALYSES OF PUBLIC WATER SUPPLY DURING 1915 BY THE PUBLIC ANALYST. TABLE XX.

(Results expressed in parts per 100,000.)

						-		Athan	Overson	
Date 1915	Source	Total Solid Residue	Volatile Solid Residue	Chlorine	Nitrogen as Nitrates	Total Hardness	Free or Saline Ammonia	minoid or Organic Ammonia	absorbed in 2 hours at 100° F.	Remarks
Jan. 14	Co.'s Main,	31.8	5.0	1.5	.40	22.8	:	-0005	-014	Clear and Colourless
Feb. 11	Arundel St. do.	28.7	2.0	1.6	.45	22.0	.0005	-004	.047	do,
March 9	do.	32.7	0.9	1.6	. 42	24.56	:	-001	:	do.
April 16	do.	21.7	0.9	1.6	.40	23.7	:	8000-	.02	do.
May 18	do.	30.5	2.0	1.5	.38	23.7	:	-002	.02	do.
June 25	do.	29.6	5.4	1.6	-42	23.7	:	-002	10.	do.
July 15	do.	30.2	5.3	1.5	-40	23.7	:	.0016	-014	do.
Aug. 16	do.	29.7	4.0	1.5	.40	23.7	*	-002	;	do.
Sept. 17	do.	28.8	2.0	1.4	.37	16.5	:	900.	.0175	do.
Oct. 22	do.	31.2	3.6	1.48	.576	17	Trace	-0036	10.	do.
Nov. 22	do.	30.8	1.6	1.6	.329	18	:	-0026	Trace	do.
Dec. 17	do.	28.0	2.8	1.48	.278	21.5	:	+00-	.46	do.

WATER SUPPLY.—From the results of the monthly analyses of the public water supply given in Table XX. it will be seen that the water continues to reach a high standard of purity. Since the completion of the excellent system of filtration installed in 1909 the condition of the supply has been excellent, and it is now one of the best in the country.

GENERAL SANITARY SUPERVISION.—Details of the various matters dealt with in connection with the general sanitary supervision of the Borough will be found in the Chief Sanitary Inspector's Report. Owing to the depletion of the Staff not so much inspection as usual was able to be carried out, but so far as possible all the most important matters received attention. Special attention was paid to the food supply, and frequent inspections made of places where food was prepared. Workshops, workplaces, and places where outworkers were employed, were visited, this year by the District Inspectors, instead of by the Workshop Inspector, Mr. Gray, who was put in charge of the clerical work of the Department, the whole clerical staff having joined the Services.

All premises on which cases of infectious disease occurred were visited and subsequently disinfected. The additions to the Milton Hospital are still in hand, and will, it is hoped, certainly be completed this year. Owing to the insufficiency of the present accommodation during the latter half of the year, it was impossible to remove at once all the cases of scarlet fever and diphtheria for which admission was requested. Further, in view of the necessity of providing accommodation for cases of cerebro-spinal fever, and as there were very few cases of enteric fever, it was decided to make use of the enteric fever wards at the Hospital for the former. So far as possible the few patients notified suffering from enteric fever who required hospital treatment were admitted to the Royal Hospital. When the additions to the Hospital are completed, I do not anticipate that we shall for some years again have any difficulty in admitting and treating all the patients for whom such may be necessary.

An attempt was made to induce the public to take steps for the prevention of the dangers of food infection by flies, and in May I prepared and issued the following leaflet:—

THE HOUSE FLY.

DANGERS FROM IT AND HOW TO PREVENT THEM.



House-fly in the act of regurgitating liquid food.*

THE DANGER.—The great danger from flies is that they convey filth and disease germs to food. The fly seen on the dining-table has very likely come straight from the dust-bin, possibly from the expectoration of a consumptive, almost certainly from some form of filth. The house-fly is a disease and filth carrier.

DISEASES IT MAY CONVEY.—Flies have been proved to carry the germs of the following diseases:—

Typhoid or Enteric Fever.

Hospital Gangrene.

Cholera.

Anthrax.

Plague.

Tuberculosis.

Infectious Sores.

Ophthalmia (inflammation of Eyes).

Epidemic Summer Diarrhoea.

Of these, perhaps the most important in this country is epidemic summer diarrhoea. During the hot summer months large numbers of babies die from intestinal complaints, owing to their milk and food having been infected by flies. Everyone must have noticed how flies settle on sores and diseased animals, and their opportunities of conveying all sorts of disease are unlimited.

HOW IT CONVEYS DISEASE.—Food is infected with disease germs by flies in the following ways:—

It may be done directly by contact; a fly's legs are covered with fine hairs like a brush; these become coated with whatever filth it has been visiting, and this in turn is deposited on the food it settles on.

It may also deposit the germs of disease in its excreta and in its vomits. (The probocis of the fly is in the form of a sucker, and its habit is to regurgitate its food,—these vomit spots may be seen as opaque light coloured spots on windows and other places.) By any or all of these means flies carry disease germs from filth and putrefying matter and deposit them directly on food about to be eaten. Thus disease is caused.

PREVENTION OF THE FLY DANGER.—For **intelligent** action to be taken to prevent the danger from flies the following points must be known and appreciated:—

In order to breed, flies must have decomposing garbage of some sort on which to deposit their eggs. Any sort of garbage will do, as long as

^{*}Reproduced by permission from "House-Flies," C. G. Hewitt, Cambridge University Press.

there is warmth and moisture. The commonest substances are: stable manure, cow-dung, rotten fruit, and bad meat and meat bones; flies have often been found breeding in spittoons. Particularly about houses they breed in dust-bins and kitchen waste that is left lying about.

Flies breed from June to October, and mostly in the hottest months. A single female fly will deposit from 100 to 150 eggs at a time. These eggs hatch out into maggots and eventually appear as fully developed flies in nine or ten days. They can fly for any distance up to a mile, but probably do not go on an average more than 600 or 700 yards.

Appreciating these points the methods of preventing the fly danger are apparent. The one essential measure to be put into practice is that no house refuse, kitchen waste, garbage, or stable manure must be allowed to remain long enough for flies to be able to breed on them.

Sprinkle the dust-bin occasionally with paraffin, chloride of lime, or the Municipal disinfectant. Always keep the dust-bin covered.

Keep all food covered with wire gauze covers, and especially prevent flies from gaining access to milk or babies' food.

In the house kill as many flies as possible by fly-papers, fly-traps, fly poisons (two teaspoonsful of formalin in a pint of milk spread about in saucers is an effective fly poison), and by all other means.

Killing flies, however, is not striking at the root of the matter. This is only accomplished by the prevention of all breeding places, and it necessitates taking the trouble to see that no house refuse, kitchen waste, meat bones, fruit skins, etc., are allowed to lie about in the yards and gardens of houses.

It has been stated that in a certain lunatic asylum one of the tests applied to find out if a patient is sufficiently recovered to be discharged, is to give him a broom and put him in a room with a water tap turned full on. If he proceeds placidly to sweep up the water without turning off the tap, his standard of intelligence is not deemed to be high enough. The individual who endeavours to get rid of the fly danger by killing individual flies, and at the same time allows their breeding places to remain unheeded is intellectually not far removed.

In regard to the administration of the Sale of Food and Drugs Acts, 937 samples were taken, and of these 85, or 9 per cent., were certified by the Public Analyst to be adulterated. Particulars of the samples, and of the proceedings which were taken, will be found in the Chief Inspector's Report. The administration of these Acts in respect of samples of milk found to be below the standard of a good milk continues to be unsatisfactory. It is difficult to secure a conviction and an adequate penalty against dishonest dealers; it is also difficult at times to avoid inflicting hardship on innocent persons. The difficulty is that there is no absolute standard for the composition of milk. It is presumed that a genuine milk contains not less than 3 per cent. of fat, but if the milk on analysis is found to be deficient, in say, 10 per

cent. of fat, no proceedings for inflicting a penalty on the vendor can be successful if he can convince the Magistrates that the milk was sold as it came from the cow. Milk producers are usually able to produce evidence to substantiate their statements that the milk, although deficient in fat, was sold as it came from the cow. The retailer of milk, on the other hand, has great difficulty (unless he secures a "warranty," which the small retailer is unable to do) in securing similar evidence. In the latter part of the year the Board of Agriculture and Fisheries issued a Circular letter to Local Authorities, advising them not to take legal proceedings against "milk producers" without first giving them an opportunity of giving an explanation that might account for a deficiency in milk fat found by the Public Analyst in a sample. The value of such a course of action is very greatly diminished by the fact that Local Authorities have not the power of taking evidence on oath, and no penalty can be inflicted for the making of statements which might subsequently be found to be false. There are also what appear to me to be other strong objections to this course. The whole subject of the provision of a pure milk supply is one of the most difficult, and at the same time one of the most important, that vet remain to be solved.

In August the Borough Analyst, Mr. R. P. Page, was granted a Commission in the Hampshire Regiment, and Dr. Arthur Angell, Public Analyst for the County, was appointed temporarily Public Analyst in his place.

The following Table gives the particulars required by the Local Government Board as to the use of preservatives in milk and cream during the year:—

I.—MILK AND CREAM NOT SOLD AS PRESERVED CREAM.

	A Number of Samples examined for the presence of a Preserv.	Number in which a Preservative was reported to be present.
Milk	549	One sample of Farmer's Milk contained traces of Formalin.
Condensed Milk	3	(- J.
Skim Milk	8	
Cream	Five samples, one of which was a test sample of tinned Preserved Cream and one sent in by a Private Person as Pre- served Cream.	All the samples contained Boric Acid varying from 0.15 to 0.27 per cent Three vendors were asked for ex planations and cautioned.

II.—CREAM SOLD AS PRESERVED CREAM.

- (a) Instances in which samples have been submitted for analysis to ascertain if the statements on the label as to Preservatives were correct.
 - Correct statements made, 2
 Statements incorrect, 0
- (b) Determination made of milk fat in cream sold as Preserved Cream.
 - (1) Above 35 per cent, 5
 - (2) Below 35 per cent, 0
- (c) There were no instances where the requirements as to labelling or declaration of Preserved Cream have not been observed.
- (d) Thickening substances. No evidence of their addition to Cream or Preserved Cream.
- (e) The Fat in the Cream not sold as Preserve I Cream varied from 46.6 to 57.5 per cent.
 (Preservative must not be added to Cream containing less than 35 per cent. by weight of milk fat.)

HOUSING.—Owing to the special conditions arising from the war, very little work has been carried out this year under the Housing of the Working Classes Acts. In particular the hopes of the Local Authority in connection with the provision of a reconstruction scheme in the Voller Street area have not been realised.

Demolition Orders were made by the Local Authority on May 11th in respect of 2, 6, 8, 10, 12, 14, 16, 18, 20, 28, 29, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56 and 58 Voller Street. The owners of Nos. 44, 46, 48, 50, 52 and 54 appealed to the Local Government Board against a Demolition Order being made in respect of these houses, and an enquiry held by an Inspector of the Local Government Board on August 11th; the result of this enquiry was communicated to the Local Authority on November 9th, when the Order made by the Council was confirmed.

Demolition Orders were made by the Local Authority in respect of 1 Carver's Court, Highbury Street, on March 9th, and in respect of 2, 3, 4, 5, 6, 7 and 8 Carver's Court on February 9th.

Closing Orders were made by the Local Authority in respect of 1, 2, 3, 4, 5 and 6 Pavilion Place on January 6th, and subsequently Demolition Orders were made on August 10th.

Closing Orders were made by the Local Authority in respect of 60 Highbury Street, and 1, 2, 3 and 4 Keesings Court on January 12th; no Demolition Order was made in this case, as the premises were subsequently altered and converted into a workshop.

Closing Orders were made by the Local Authority in respect of 4 and 5 Church View, Milton, on March 9th; these houses were subsequently repaired and made fit for human

habitation, and the Orders were determined by the Local Authority at its meeting on August 10th.

Letters were sent to the owners of two other houses, advising that if certain repairs were not carried out the Local Authority would take into consideration the making of Closing Orders; in both cases the repairs were effected.

A large number of dwelling houses have been inspected during the year and 1,072 house to house inspections made.

The new houses provided by the Local Authority in Curzon Howe Road and Kent Street, on the site formerly occupied by King's Bench Alley, Albion Street, White's Row, and Southampton Row are all occupied at a rental of 7s. a week. These houses are much sought after and could easily be let at a higher rental if it were advisable. The next houses provided by the Local Authority will be on the Voller Street site, and it is proposed, when the conditions of finance permit, to provide a number of two and three room tenements, which I believe to be very much needed in this Borough.

MUNICIPAL DISINFECTANT.—The establishment of the Municipal Disinfectant Station for the manufacture of Electrolised Sea Water Disinfectant Fluid has proved an unqualified success. In the first place there has been a net saving in cash on money expended on disinfectants during the year of over £100. This has been saved in the Health Department alone; there have been further savings in those other Departments of the Corporation which employ the municipal disinfectant fluid instead of purchasing more expensive disinfectants elsewhere. Further, during the year 11,890 gallons of the fluid have been produced and issued in place of about 3,000 gallons which were available when disinfectants were purchased. Lastly, the municipal disinfectant fluid is not only much cheaper, but far more effective than the majority of disinfectants on the market. The net cost to the Department for the year was £143 6s. 11d., and the net cost per gallon of the disinfectant fluid was just under 3d. Previous to the installation of the Municipal Disinfectant Plant the cost of disinfectants purchased was 1/9 per gallon.

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.

I.-INSPECTION.

		Number of	
Premises	Inspections	Written Notices	Prosecu- tions
FACTORIES	222	15	-
WORKSHOPS (Including Workshop Laundries)	1753	102	-
WORKPLACES	328	33	-
Total	2303	150	_

2.—DEFECTS FOUND.

	Nu	mber of	Defects	Number
Particulars	Found	Reme- died	Referred to H.M. Inspector	of Prosecu- tions
Nuisances under the Public Health Acts:— Want of Cleanliness	46	46		
Want of Ventilation	12	12	_	
Overcrowding	2	2	_	-
Want of drainage of floors			_	_
Other Nuisances	48	48	_	-
Sanitary (insufficient	6	6	-	
Accommodation unsuitable or defective			-	
(not separate for sexes	4	4	-	-
Offences under the Factory and Workshop Act:-				
		-		
Breach of special sanitary requirements for				
bakehouses (ss. 97 to 100)	16	16	-	-
TOTAL	134	134		

3.—HOMEWORK.

		,	s: 6,						umber		25	10	10		: 60
, 110		Prose	(Ss. 10 110)	1 :		:	:		Z		:	tor 1)	: :		: :
rions 108		Orders	made (S. 110)	::		:	:				0	M. Inspection taker	aspector		
SEC			In- stances	∞ ;		:	00	0.			vet (s. 133	rts (of ac	0 H.M. I)		: :
5. 108			Prose- cutions	::		:	:	TTER			orkshop 4		-		: :
dises, se			Notices	::		:	:		SS	ctories :-	W bue y	 Inspect h Acts, by 			year
PRE			In- stances	::		:	:		Cla	ctor of Fe	the Factor	ed by H.A blic Healt	Worksho	11 (10	nring the
tions	100	to	send	::		:	:	5.		f. Inspe	ract of	rs referr r the Pu	ory and	ses (s. 1	anted di
Prosecu	Failing	to keep or	permit in- spection of lists	::		:	:			ed to H.N	uffix Abst	n in matte able unde	r the Fact	Bakehous	Certificates granted during the year In use at the end of the year
Notices	on Occu-	piers as to	keeping or sending lists	::		:	:			rs notifi	lure to	tion take is remedi	not under	rground	Certi In u
ers	g	orkers	Work-	10	:	11	11			Matte	Fai	Ac	1 Off	Unde	
Employ	Sendin e in the	Outw	Con- tractors	17	:	:	17	-	per	0	67	0	1	3	9
from 1				7	:	-	00		Num	13	65	29	65	79	2516
seived	e year	orkers	Work-		4	61		OPS	year	:	:	:	:	:	•
sts rec	Sendir e in th	Outw	Con- tractors	250		:	256	KSH	jo pu						ster
I	Twic		Lists	\$0 50	:	:	82	WOR	t the e	:	:	:		:	n Regi
	NATURE OF WORK		•	Wearing Apparel— (1) making, etc	Furniture and Upholstery	Umbrellas, etc.	TOTAL	4.—REGISTERED V	orkshops on the Register (s. 131) at	ikehouses	ess and Mantle Makers	Uliners	ilors	her Workshops	Total number of workshops on Register
	ved from Employers	Lists received from Employers Notices Prosecutions Sending Once in the year Occu- the control occus on the year Occus on the year Occus oc	OF WORK Twice in the year Outworkers	Company Comp	Nortees Twice in the year Once in the year Outworkers of itsts Columbda C	Sending Sending Sending Outworkers Outworker	WORK Twice in the year Sending Prosecutions Prosecutions Premises, Sec. 108 Secretors Served WORK Twice in the year Outworkers Sending Served Failing permit send in the year of year of the year of year of the year of year	Twice in the year Sending Send	Table 1 1 1 1 1 1 1 1 1	Twice in the year Sending Sending Sending Served Court Sending Served Sending Sending Served Served Sending Sendin	Sending Sending Served Sending Sending Served Sending Served Sending Served Sending Sendi	Tists Tist	Sending Served Served	Conce in the year occupations Sending Sending Sending Served Sending Sen	Concein the year Sending Served Sending Served Sending Served Served Sending Served Sending Served Sending S

NUISANCES IN RESPECT	OF W	ORKSHOPS,	WOR	KPLACES,	&c.,	1915
Drains Repaired						21
,, Cleansed						27
Workshops and Workplaces						46
,, ,, ,,	Ventil			3		12
Bakehouses Cleansed						16
Overcrowding in Workshops	discon	ntinued				2
Sanitary Accommodation pr	ovided					(
Separate Sanitary Accommo	dation	for Sexes p	rovide	d		4
W.C. Fittings Repaired						24
Yard Paving ;,					· · ·	56
Spouting ,,						62
Floors ,,						12
,, Drained		A M.				- 2
Roofs Repaired						58
New W.C. Pans provided						8
Flushing Cisterns to Water	Closets	provided		more de la constante de la con		19
Water Closets Ventilated			.1			. 3
,, ,, Cleansed						2
Yards and Stables Cleansed	,					2
Manure and Refuse Remove	ed					1
Smoke Nuisances abated						1
Gas Ironing-stoves Ventilate	ed					3
Water Closets reconstructed						2
Other Nuisances abated						48
				Total		437

SUMMARY OF METEOROLOGICAL STATISTICS, 1915.

Barometer.—The mean barometer pressure for the year was 29.952 inches. The highest observed reading, corrected to sea-level, was 30.718 on November 21st, and the lowest 28.812 on January 3rd.

Temperature.—The mean temperature in the shade was 51.1°, or 0.8° above the normal.

- MAXIMUM.—The mean maximum temperature in the shade was 57.1°, the highest being 79° on July 2nd.
- MINIMUM.—The mean minimum temperature was 45.2°, the lowest being 27° on February 26th.
- MAXIMUM IN SUN.—The mean maximum temperature in the sun was 98.7°, the highest being 137° on June 30th.
- MINIMUM ON GRASS.—The mean minimum temperature on the grass was 40.8°, the lowest being 18° on November 27th.
- EARTH TEMPERATURE.—The mean temperature at 1 foot below the ground was 51.7°, and that at 4 feet 52.5°.

Bright Sunshine.—The amount of sunshine registered by the Campbell-Stokes Recorder amounted to 1,776 hours. The greatest amount registered on one day was 14 hours 50 minutes, on June 15th.

Frosts.—The minimum thermometer in the shade, four feet above the ground fell to and below freezing point on 28 days, and that on the ground on 62 occasions.

Humidity.—The mean humidity of the air (Saturation 100) was 80.6.

Rainfall.—The total rainfall was 37.41 inches, or 9.44 above the average. The greatest fall of rain in 24 hours was 1.44 inches, on May 13th.

Snow.—Snow fell on four occasions and Hail on four.

Thunder and Thunder Storms occurred on two occasions.

RAINFALL.

The following table shows the total Rainfall and the number of days on which rain fell during each month, together with the greatest fall in 24 hours during the year 1915.

1915	5	Total amount in inches	Number of days on which 0.01 or more rain fell	Greatest fall in 24 hours	Date of greatest fall
January February March April May June July August September October November December		4·48 5·14 ·78 1·28 3·52 ·70 3·38 1·19 3·06 3·50 2·57 7·81	20 19 9 7 11 7 12 13 6 11 8 25	·82 ·76 ·16 ·47 1·44 ·28 1·26 ·26 1·40 ·70 ·80 ·90	3rd 16th 2nd 6th 13th 29th 16th 31st 24th 31st 11th 26th
Total		37 - 41	148	1.44	May, 13th

The following table shows the total Rainfall for the past 20 years.

Year	Total rainfall in inches	Number of rainy days	Greatest fall in 24 hours	Date of greatest fall
1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911	27·60 25·54 28·87 22·66 25·63 28·40 24·31 24·22 35·18 26·70 24·05 28·74 25·33 20·49 32·58 31·36 30·06	147 156 163 142 118 171 131 148 181 177 153 161 167 144 160 168 140	1·17 1·31 1·13 1·45 3·25* 0·98 1·30 1·14 1 80 1·36 2·35 1·85 1·12 0.95 1·87 1·32 1·40	Oct. 30th Sept. 2nd Aug. 26th Nov. 23rd July 23rd Jan. 6th June 30th Aug. 18th Sept. 4th May 20th June 5th Jan 2nd Oct. 14th "18th "26th "11th Aug. 22 & Oct. 24
1912 1913 1914	31 · 94 29 · 96 33 · 13	174 165 165	1.60 1.09 1.67	Sept. 29th Oct. 6th Dec. 9th
Means (20 years)	27.83	156	Greatest fall in 24 hours 3·25	July 23rd 1899
1915	37 - 41	148	1.44	May 13th

^{*}Fell between 1.30 and 3 o'clock p.m. Sunday, July 23rd.

REGISTER OF RAINFALL IN 1915.

						-								
	Date	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Date
	1	in. ·55	in. •19	in.	in.	in. -03	in.	in.	in. •10	in. •05	in. •18	in.	in. •42	1
	2	-35	.18	·16			.01		.04		-19		-37	2
	3	-82		·13	.33	·24		* *	-01				-57	3
	4	-01			**	-01				**			.52	4
	5	-01	.35				**	+4				* *	.52	5
	6	.73	·20	-01	-47			-50	-09				-12	6
	7	-18	-40	***	-08			-05	-04				.25	7
	8	-04	-72					-56	-05			-08	-04	8
	9	.01	.06		-10		-04		-05			-38	.74	9
	10	.20	·20	-04							-04		.28	10
	11	-01		-07								.80	-01	11
	12	-07	-37	**	-26	-58		**	.04			·27		12
	13		.46		**	1 · 44				.13				13
	14	-01						.01		.05			-57	14
	15	-07		1/1.	7	-08		.02	.24			-09	.22	15
	16		-76			-47		1.26	-15				-14	16
	17		-26			-57			.02					17
	18		.27		-0.4	-03	W			**		.04		18
	19		.04			-06		-04	* *					19
	20	-26	7.		-03	-01					.05		-10	20
	21	.04						-03			-36		-18	21
	22	.75	-50	-17	.,			.56					-18	22
	23		.08	.11			-03			.48	-25		.57	23
	24			-06				.04		1.40	-60		•46	24
	25			-03	-01								· 20	25
	26	.02	.02		1.5		-14	·27					• 90	26
	27		-01	**	(1)		-01		,,,		-31		**	27
	28		-07	-5			-19	.04		-95	-31		.02	28
	29				24.		-28		-10			.34	.04	29
	30	-30	·								-51	-57	.04	30
	31	.05							•26		• 70		.35	31
1	fotals	4.48	5 · 14	.78	1.28	3.52	• 70	3.38	1.19	3.06	3.50	2.57	7.81	37.41
	Rain Days	20	19	9	7	11	7	12	13	6	11	8	.25	148

TOTAL RAINFALL, 1891-1915.

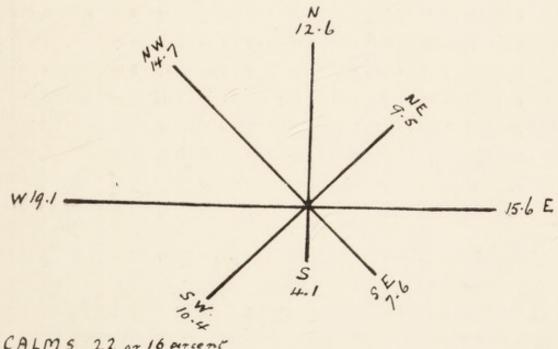
Year	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept	Oct.	Nov.	Dec	Total
1891	in. 2·37	in. •03	in. 2·31	in. •97	in. 2·31	in. 2·27	in. 1·71	in. 5·01	in. 1·26	in. 6·49	in. 3·00	in. 3·51	31 · 24
1892	.88	-93	- 96	-76	-99	1.92	2.80	2.86	2.62	3-76	2.85	1.94	23 - 27
1893	1.73	2.95	.49	.04	.78	1.32	3-62	-58	1.88	4.94	2:14	2.68	23 · 15
1894	4.39	2.11	1.48	1.83	1.02	1.77	4.79	1.79	3.03	5.35	6.39	1.93	35.88
1895	3.19	-02	1.64	2.18	.19	-75	3.58	2.75	- 82	4.23	5.11	3.14	27.60
1896	-70	-33	3.02	• 64	-53	1 - 44	.78	1.63	8.51	2.95	.94	4.06	25.53
1897	2.83	3.31	4.69	1.63	1.38	2.79	-63	3 · 65	2.97	-38	1.62	2.94	28.82
1898	-60	2.98	.58	1.15	3.16	1.50	-30	1.51	1.05	3.37	3 · 20	3.23	22.63
1899	2.77	2.57	-67	2.45	-71	.54	3.37	-81	2.76	2.54	5.12	1.28	25.59
1900	4.53	5.25	1.00	1.36	-93	1.69	1.10	2.04	.29	3.50	3.32	3.37	28.38
1901	1.17	1.42	2 · 23	2.34	.58	2.62	2.89	1.38	2.25	3.08	-38	3.96	24.30
1902	-91	1.63	2.03	1.28	2.08	2.87	1 · 77	4 · 13	-51	1.85	3.57	1.59	24 · 22
1903	2.12	1.61	2.46	2.50	2.49	2.19	2.61	4.33	2.99	7.90	1.71	2 · 27	35.18
1904	3.95	3.72	1.03	1.38	4.02	·87	1.26	2.30	1.76	2.06	1.32	2.94	26.70
1905	1.07	-51	4.43	1.57	-41	3.93	.25	2 · 47	2.38	1.88	4.51	•63	24 · 04
1906	7.13	3 · 25	1.21	-67	1.60	1.52	.43	-86	1 · 43	4.85	4 · 27	1 - 47	28-69
1907	.79	1.05	.34	3.48	2.57	2.04	1 · 14	-88	-52	6.99	2.46	3.04	25.30
1908	.92	.98	2 · 45	2.15	1.41	-68	1.31	2 · 33	1.05	2:36	1.36	3.48	20.48
1909	-84	-27	3.93	1.36	1.28	3.90	2.04	2.52	3.55	7.57	.70	4.61	32.57
1910	3.14	3.53	1.11	1.70	1.42	1.76	2.16	2.60	-09	5.06	3.93	4.85	31 - 35
1911	-92	1 - 44	1.58	1.51	1.53	1.55	-64	1.79	1.15	4.88	4.99	8.21	30 · 19
1912	3.59	1.91	3.78	·12	1.08	3.00	1.70	5.87	2 - 62	2.91	1.76	3.59	31-93
1913	4.34	1.17	2.75	2.65	2.45	.43	1 · 64	1.78	2.82	4.80	2.91	2.22	29-96
1914	-62	4 · 41	4.73	1 - 47	1.22	1.37	2.27	1.58	1.13	2.78	3-48	8.07	33-13
1915	4.48	5 · 14	.78	1.28	3.52	-70	3.38	1.19	3.06	3.50	2.57	7.81	37.41
Aver. 25 years 1891- 1915	2.39	2 · 10	2.03	1 · 53	1.58	1.81	1.92	2.34	2 · 10	3.40	2.93	3.47	28.30
Aver. 20 years 1896- 1915	2.37	2.32	2 · 24	1 · 62	1 · 71	1.86	1.58	2.28	2 · 14	3 · 76	2.70	3.68	28.32

WINDS.

The following Table and Chart shows the direction, velocity and percentage of Winds experienced in Portsmouth during the year 1915.

(Observat	ions	taken	at	9:	a.m.)	
-----------	------	-------	----	----	-------	--

										Force	0-12
Month		N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Calms	4 to 7
January		7	4	4		1		8	5	2	14
February		7 5	1	1		4	4	7	5	1	14
March		7	4	6	4	1		3	5	1	17
April		7	3	7	1	1	3	3	5		15
May		1	4	12	5	1	2	7	2	2	9
June	1.7		1	10	4	3	2		2	1	3
July		3				1	5	12	9	1	3
August			1	1		1	6	9	8	5	
September		2		8	2		2	7	5	4	4
October		4	9	3	7		1		2	5	2
November		9	7	3	2		3	3	3		3
December		1	1	2	3	2	10	9	3		2
TOTAL		46	35	57	28	15	38	70	54	22	86



CALMS 22 or 16 percent

PORTSMOUT

ABSTRACT OF METEOROLOGICAL OBSERVATION

DATE restance rest	Mean 9 a.m. 29.454 29.876 29.877 29.753 29.824 29.531 29.474 29.901 30.009 30.225 29.995 29.986 30.051 29.791 30.235	Mean 9 a.m. 45 · 2 45 · 5 38 · 4 44 · 3 41 · 5 41 · 5 37 · 7 45 · 0 41 · 8	Mean Max. 48·3 49·5 43·4 40·1 48·2 47·1 47·8	Mean Min. 41·4 42·6 36·7 33·6 40·5 36·7	Mean of Max. and Min. 44 · 8 46 · 0 40 · 0 36 · 8	Highest Max.	Lowest Min.	IN SUN Black Bulb in vacuo. Mean 68.8	ON Mean Min. 38.3	Lov
Jan. 9 ,, 16 ,, 23 ,, 30 Feb. 6 ,, 13 ,, 20 ,, 27 March 6 ,, 13 ,, 20 ,, 27 April 3 ,, 10 ,, 17 ,, 24 May 1 ,, 8 ,, 15 ,, 22 ,, 29 June 5 ,, 12 ,, 19 ,, 26 July 3 ,, 10 ,, 17 ,, 24	9 a.m. 29·454 29·876 29·877 29·753 29·824 29·531 29·474 29·901 30·009 30·225 29·995 29·986 30·051 29·791	9 a.m. 45·2 45·5 38·4 36·4 44·3 41·5 41·5 37·7 45·0	Max. 48.3 49.5 43.4 40.1 48.2 47.1 47.8	Min. 41·4 42·6 36·7 33·6 40·5	Max. and Min. 44·8 46·0 40·0	52 · 53 ·	Min.	Bulb in vacuo. Mean	Min.	M
,, 16 ,, 23 ,, 30 Feb. 6 ,, 13 ,, 27 March 6 ,, 13 ,, 27 April 3 ,, 27 April 3 ,, 10 ,, 17 ,, 24 May 1 ,, 8 ,, 15 ,, 22 ,, 29 June 5 ,, 12 ,, 19 ,, 19 ,, 10 ,, 12 ,, 26 July 3 ,, 10 ,, 17 ,, 19 ,, 10 ,, 1	29·876 29·877 29·753 29·824 29·531 29·474 29·901 30·009 30·225 29·995 29·986 30·051 29·791	45.5 38.4 36.4 44.3 41.5 41.5 37.7 45.0	49·5 43·4 40·1 48·2 47·1 47·8	42.6 36.7 33.6 40.5	46·0 40·0	53 ·			38.3	
,, 16 ,, 23 ,, 30 Feb. 6 ,, 13 ,, 20 ,, 27 March 6 ,, 13 ,, 20 ,, 27 April 3 ,, 10 ,, 17 ,, 24 May 1 ,, 8 ,, 15 ,, 22 ,, 29 June 5 ,, 12 ,, 19 ,, 26 July 3 ,, 10 ,, 17 ,, 24	29·877 29·753 29·824 29·531 29·474 29·901 30·009 30·225 29·995 29·986 30·051 29·791	38·4 36·4 44·3 41·5 41·5 37·7 45·0	43 · 4 40 · 1 48 · 2 47 · 1 47 · 8	36·7 33·6 40·5	40.0		0.5			38
,, 23 ,, 30 Feb. 6 ,, 13 ,, 20 ,, 27 March 6 ,, 13 ,, 20 ,, 27 April 3 ,, 10 ,, 17 ,, 24 May 1 ,, 8 ,, 15 ,, 22 ,, 29 June 5 ,, 12 ,, 19 ,, 26 July 3 ,, 10 ,, 17 ,, 29 July 3 ,, 10 ,, 11 ,, 12 ,, 12 ,, 26 July 3 ,, 10 ,, 11 ,, 12 ,, 12 ,, 12 ,, 12 ,, 12 ,, 12 ,, 13 ,, 14 ,, 15 ,, 16 ,, 16 ,, 17 ,, 18 ,, 18 ,, 19 ,, 1	29·753 29·824 29·531 29·474 29·901 30·009 30·225 29·995 29·986 30·051 29·791	36·4 44·3 41·5 41·5 37·7 45·0	40·1 48·2 47·1 47·8	33 · 6 40 · 5		2.75	99.	68 · 4	38.8	- 29
,, 30 Feb. 6 ,, 13 ,, 20 ,, 27 Murch 6 ,, 13 ,, 20 ,, 27 April 3 ,, 10 ,, 17 ,, 24 May 1 ,, 8 ,, 15 ,, 22 ,, 29 June 5 ,, 12 ,, 19 ,, 26 July 3 ,, 10 ,, 17 ,, 24	29·824 29·531 29·474 29·901 30·009 30·225 29·995 29·986 30·051 29·791	44·3 41·5 41·5 37·7 45·0	48·2 47·1 47·8	40.5	26.0	48 ·	32 ·	66.3	33.5	28
,, 13 ,, 20 ,, 27 March 6 ,, 13 ,, 20 ,, 27 April 3 ,, 10 ,, 17 ,, 24 May 1 ,, 8 ,, 15 ,, 22 ,, 29 June 5 ,, 12 ,, 19 ,, 19 ,, 26 July 3 ,, 10 ,, 17 ,, 24	29·531 29·474 29·901 30·009 30·225 29·995 29·986 30·051 29·791	41·5 41·5 37·7 45·0	47·1 47·8			44 ·	29 ·	57 · 4	30.7	22
,, 20 ,, 27 March 6 ,, 13 ,, 20 ,, 27 April 3 ,, 10 ,, 17 ,, 24 May 1 ,, 8 ,, 15 ,, 22 ,, 29 June 5 ,, 12 ,, 19 ,, 19 ,, 10 ,, 17 ,, 24 May 1 ,, 26 July 3 ,, 10 ,, 17 ,, 26 July 3 ,, 10 ,, 17 ,, 26 July 3 ,, 10 ,, 17 ,, 26 July 3 ,, 10 ,, 10 ,, 12 ,, 26 July 3 ,, 10 ,, 10	29·474 29·901 30·009 30·225 29·995 29·986 30·051 29·791	41·5 37·7 45·0	47.8	90.7	44.3	51 ·	33 ·	77.2	37.2	30
March 6 13 20 27 April 3 10 17 24 May 1 8 15 22 29 June 5 12 19 19 19 19 10 11 19 19 10 10	29·901 30·009 30·225 29·995 29·986 30·051 29·791	37·7 45·0			41.9	51.	31 ·	85.5	31.5	24
March 6 ,, 13 ,, 20 ,, 27 April 3 ,, 10 ,, 17 ,, 24 May 1 ,, 8 ,, 15 ,, 22 ,, 29 June 5 ,, 12 ,, 19 ,, 26 July 3 ,, 10 ,, 17 ,, 24	30·009 30·225 29·995 29·986 30·051 29·791	45.0		36.8	42.3	51 ·	29.	84:1	33.5	22
,, 13 ,, 20 ,, 27 April 3 ,, 10 ,, 17 ,, 24 May 1 ,, 8 ,, 15 ,, 22 ,, 29 June 5 ,, 12 ,, 19 ,, 26 July 3 ,, 10 ,, 17 ,, 24	30 · 225 29 · 995 29 · 986 30 · 051 29 · 791		44.5	32.1	38.3	50 -	27 ·	86 · 1	28 · 1	21
,, 20 ,, 27 April 3 ,, 10 ,, 17 ,, 24 May 1 ,, 8 ,, 15 ,, 22 ,, 29 June 5 ,, 12 ,, 19 ,, 26 July 3 ,, 10 ,, 17 ,, 24	29 · 995 29 · 986 30 · 051 29 · 791	41.8	49.8	41 - 1	43.3	54 ·	35 -	91 · 2	38.2	31
,, 27 April 3 ,, 10 ,, 17 ,, 24 May 1 ,, 8 ,, 15 ,, 22 ,, 29 June 5 ,, 12 ,, 19 ,, 26 July 3 ,, 10 ,, 17 ,, 24	29·986 30·051 29·791	100	48.1	37.8	42.9	55:	33 -	84 · 4	34.5	30
April 3 ,, 10 ,, 17 ,, 24 May 1 ,, 8 ,, 15 ,, 22 ,, 29 June 5 ,, 12 ,, 19 ,, 26 July 3 ,, 10 ,, 17 ,, 24	30·051 29·791	43.6	48.8	38 - 4	43.6	58.	28.	83 · 4	33.8	19
,, 10 ,, 17 ,, 24 May 1 ,, 8 ,, 15 ,, 22 ,, 29 June 5 ,, 12 ,, 19 ., 26 July 3 ,, 10 ,, 17 ,, 24	29.791	44.9	50 · 2	37 · 4	44.0	59 ·	29.	94.8	32.5	21
,, 17 ,, 24 May 1 ,, 8 ,, 15 ,, 22 ,, 29 June 5 ,, 12 ,, 19 ., 26 July 3 ,, 10 ,, 17 ,, 24		42.5	47.7	32 - 4	40.0	55 -	29.	94 - 7	26.2	22
,, 24 May 1 ,, 8 ,, 15 ,, 22 ,, 29 June 5 ,, 12 ,, 19 ., 26 July 3 ,, 10 ,, 17 ,, 24		47.6	32.5	42.0	47.2	56.	38 -	103 -	38-0	28
May 1 ,, 8 ,, 15 ,, 22 ,, 29 June 5 ,, 12 ,, 19 ,, 26 July 3 ,, 10 ,, 17 ,, 24		48·6 48·0	54·8 54·3	41·5 39·3	48·1 46·8	62 · 58 ·	36.	107·1 108·7	37 - 3	28 30
,, 8 ,, 15 ,, 22 ,, 29 June 5 ,, 12 ,, 19 ., 26 July 3 ,, 10 ,, 17 ,, 24	30 · 174 30 · 162	53 - 7	62.0	43.7	52.8	72 -	39.	111.0	40.1	35
,, 15 ,, 22 ,, 29 June 5 ,, 12 ,, 19 ., 26 July 3 ,, 10 ,, 17 ,, 24	30.162	57.7	64.0	48.2	56-1	72 -	42.	118-1	44.2	39
June 5 ,, 29 June 5 ,, 12 ,, 19 ., 26 July 3 ,, 10 ,, 17 ,, 24	30.070	53.8	60.0	44.0	52.0	68-	38-	108.2	40.2	32
June 5 ,, 12 ,, 19 ., 26 July 3 ,, 10 ,, 17 ,, 24	29-974	55.2	60.8	48.7	54.7	74 -	42.	108.0	46.2	36
June 5 ,, 12 ,, 19 ., 26 July 3 ,, 10 ,, 17 ,, 24	30 - 063	63 - 6	70.5	51.0	60.7	78-	42 -	122.8	45.7	37
,, 12 ,, 19 ., 26 July 3 ,, 10 ,, 17 ,, 24	30 - 142	56.2	61.4	46.2	53.8	65 -	41.	111.7	41.1	34
,, 19 ,, 26 July 3 ,, 10 ,, 17 ,, 24	30.045	63 - 7	70 - 7	34.8	62 - 7	77 -	51.	126 - 2	52.2	45
July 3 ,, 10 ,, 17 ,, 24	30 - 180	61 - 1	67.5	48.8	58 - 1	74 -	45.	127 - 7	43.8	40
July 3 ,, 10 ,, 17 ,, 24	29-991	62 - 1	66.2	52 - 5	59.3	72.	46.	118-5	49.2	38
,, 10 ,, 17 ,, 24	29.981	62 - 2	69.0	50.7	64 - 1	79.	53 -	129 - 4	50.7	48
,, 17 ,, 24	29.997	63 - 7	68.7	56.8	62 - 7	73 -	51:	123 - 4	53 - 7	47
,, 24	29.812	61 - 0	64 · 8	53 - 5	59-1	67 -	49.	118-1	49.5	41
	29 - 960	60 - 9	65 · 6	55.2	60 - 4	67 -	50 -	122 · 8	52.3	44
,, 31	30.002	60 - 7	66 · 4	54 - 1	60 - 2	68 -	50 -	123 · 8	48.7	44
Aug. 7	29.880	62.8	67.3	58.0.	62.6	68 ·	54 ·	123 · 1	55-2	48
,, 14	30.049	65.0	70.9	58.9	64-9	73 ·	55.	128 - 7	55-7	50
., 21	30 - 090	60.9	68 · 1	54 - 2	61 - 1	71 ·	51.	123 - 7	50 - 1	46
,, 28	30 - 205	64 · 1	71 · 7	55.6	63 - 6	73 ·	52.	119.0	50 - 4	47
Sept. 4	29.935	56.8	63 - 7	50 - 6	57 - 1	67 -	45.	115.0	47.0	41
,, 11	30 - 290	62 - 0	68 - 4	49.2	58-8	71 -	42 -	117.4	43 - 4	35
., 18	30 - 180	63 - 9	70 - 0	56.2	63 - 1	74 -	52 ·	133 - 8	52.0	46
,, 25	30 - 045	62 - 5	67 - 2	55.2	61 · 2 50 · 2	70 -	51 · 37 ·	113·2 98·4	51·1 39·7	47 32
Oct. 2	29·755 30·146	50·1 52·8	56·7 59·0	43 - 7	53 - 2	65 · 61 ·	43.	96.8	43.1	36
16	30.146	54.0	60 - 7	50.0	55.3	63 -	46.	95.0	44.7	39
00	30 - 178	51 - 1	57.8	46.2	52.0	60 -	40 -	93 - 1	39.8	32
90	29.942	47.8	54.1	42.3	48.2	58.	36.	91.0	38.5	30
Nov. 6	29.790	44.2	50.5	40.6	45.5	57 -	36.	86.2	37.0	32
19	29.580	45.5	51.6	40.3	45.5	57 -	32.	84 · 4	35.3	24
20	30 - 260	34.8	45.7	31.8	38.7	46.	30 -	77 - 1	25.2	21
,, 27	30 - 403	35.3	41.8	32.0	36.9	43.	27.	65 - 0	28.2	18
Dec. 4	29.583	44.3	49.9	40.7	45.3	55.	31 -	61.5	35 - 4	23
,, 11	29.537	47.8	52 - 6	42.6	47.6	55.	35.	74 - 5	38.0	27
,, 18	29 - 933	40 - 4	44.9	36.6	40.7	49.	31 ·	64 - 5	31.4	25
,, 25	29.763	43.8	48.1	40.0	44.0	52 ·	33 -	65 - 1	35.7	27
1916, Jan.1	29-690	49.5	52.8	45.9	49.3	56 ·	43 -	75:2	41.0	37

AND SOUTHSEA.

during the 52 weeks ending January 1st. 1916.

							V	VINI	D 9	a.1	n.			RA	INFALL	
Mean Earth grou	below-	Wet Bulb	Humi- dity	Total Bright Sunshin (Campbe	e	*	Nı	umb	er of	f D	ays		Total	No. of days 0.01	Greatest	Date of
1 ft.	4 ft.	Mean 9 a.m.	Mean 9 a.m.	Stokes		Calm		N.E.	S.E.	ŝ	.W.	N.W.	(Ins.)	inch or more rainfall	24 hours	greatest fal
1 11.	4 11.	Sa.m.	9 a.m.	hrs. mir		0	Z	Z	i w	o,	S	Z		taiman		
42.5	45.9	44.0	90 - 5	14 40	8.3		2			1		2 2	1.80	7	-82	Jan. 3
42.9	45.8	43.6	84.5	11 45	7.1		2					4 1	.36	5	·20	,, 10
10-3	45-6	36.8	86.	19 55			4		1			1 1	1.05	3	.75	,, 22
38-8	44.6	34 - 4	82.	2 20		1			3				.32	2	.30	,. 30
11.5	44.0	43.0	89.	15 5			1		:	3	1	1 1	.97	5	.35	Feb. 5
41.3	44.8	40 - 2	89.	16 25		1:			1	1		4	2.21	6	·72	,, 8
41.2	44.2	40 - 4	91 -	20 15	20120	1					_	1 3	1.33	4 4	·76	,, 16
39·1 42·5	44 · 1	35.9	84 · 5	35 15 24 15	100		1				1 .	2 4	-37	4	-16	,, 22 March 2
43-2	44.9	39.9	85.	12 45		::	3					1 1	-11	2	-07	
44 - 3	45.6	41.6	84.5	24 50		i	3	2	1							,, 11
43-6	45.6	42.9	84	30 15			1		1 4	1			-37	4	-17	., 22
41.2	45.3	39.0	74 -	38 55					4			2 1	-33	1	-33	April 3
46.0	45.9	44.0	74.5	36 35			3				1	1 2	-65	3	-47	,, 6
47.9	47-1	44.5	72.5	39 35			1	2	1		2 .	. 1	.26	1	.26	,, 12
49.3	48.7	44-1	73 -	47 45	4 - 4		3		1 1			. 1	.03	1	-03	,, 20
51.0	49.3	48.9	70.5	57 50	4.8				5	1		1	.04	2	-03	May I
54 - 7	51.0	54.0	77.5	46 3	4.8	1			2 1	1		1	.25	2	.24	,, 3
55.7	52.9	48.9	70 -	46 25			1		3 1			1 1	2.10	3	1 · 44	,, 13
55.5	53 · 2	52.6	82.5	30 55					2 3		1.		1.14	5	-57	,, 17
60 - 6	55.4	56.3	62 ·	81 13				2	4		1 .		12.	13		
58 - 1	55.9	52.5	76.5	56 5		1		12	1	1	1	3	-01	1	-01	June 2
63 - 3	57.3	59-1	74 - 5	48 (1	1 1	1	1	2	-04	1	-04	,, 9
62.8	58·9 59·9	55 · 4	68 · 72 ·	86 6 35 32					6 1 3 2				-17	2	-14	26
61 · 8 64 · 0	60 - 1	58-6	79.	48 10	7000000	1:			3 2	1		4	-48	3	-28	00
67-3	61-6	59.5	76.5	48 13		1	1	* *	1	1	0.01	3 1	1.11	3	:56	July 8
63 - 3	61-3	56.5	73.5	26 35		1						2 3	1.29	3	1.26	,, 16
62.9	60 - 7	57.3	78.	46 35		1						2 2	-67	5	-56	,, 22
64 - 5	61:0	56-8	76.	66 30								4 3		3	.27	,, 26
64 - 1	61.6	60 - 1	83 -	27 25								4	.28	5	-10	Aug. 1
67-1	62 · 4	61 - 6	80.5	54 55		2							-14	3	-05	,, 8 &
64 - 1	62 - 7	57.2	77.5	55 35	3.1	1						2 4		3	.24	,, 15
64.5	62 · 1	59.0	72.	60 30	3.5			1	1			1 2				
60 - 7	62.0	53.0	76.	43 (1					2 4		4	-26	,, 31
59.3	60 - 4	57 · 1	72 ·	74 43					3 1			1 1				
62 · 4	60.5	60 · 7	81 .	43 55		2			1 1			3		2	.13	Sept. 13
61 - 5	61 - 0	58.7	78.	41 10		1			4			1		2	1.40	.,, 24
55.0	60-0	48.2	86.	25 50		1			: 1			1 4	1.32	3	-95	,, 28
53.0	57.4	50.3	82.5	16 35			3	1	1 2			. 1	-04	i	-04	Oct. 10
54 · 6 52 · 2	56·5 56·1	53 · 2	94 -	15 55		1			2				-66	3	-36	0.1
49.7	54.9	45.8	92.5	25 20 19 30		1	1						1.73	4	-60	,, 21
46-6	53.0	42.4	86.	29 10	The state of the s	1	2		: i					1	.70	,, 31
45-8	51.2	43.5	84.5	20 (-					3 2	1.53	4	-80	Nov. 11
40 - 7	49.7	33.5	86.	39		1::	4		1				.13	2	-09	,, 15
39.8	47.5	33 - 7	84.5	22 38			3		2							
41.6	46.1	43.3	92.		0.0	1.			. 3		3	1		6	.57	,, 30
46-0	47.4	46.2	88.	12 50					2		2	3	1.96	7	.74	Dec. 9
41-6	47.3	38.7	86.5	19 50	0.6						4 .	. 2	-93	3	-57	,, 14
42-6	46-1	42.4	88 -	9 40				1.		1	1	3 1	1.69	6	-57	,, 23
45.2	46.7	47.7	87.5	9 10	8.1				. 2	1	173	2	1.42	6	-90	,, 26

TABLI

MONTHLY WEATHER

	Baro- meter			AII	R TEMPE	RATU	RE			HYGRO	METER	BRIGH	
Month	Mean at 329 F.	Mean	n of	Mean		A	bsolute M Mir	aximun imum	and				
	at Level and Latitude of Station	A Max.	B Min.	of A and B	Diff. from Normal	Max.	Day	Min.	Day	Dry Bulb	Humid- ity	Total in hours	
Jan	29.767	45.3	38.6	41.9	+2.2	53	13th	29	30th	41.3	86	48.40	100000000000000000000000000000000000000
Feb	29.682	50.0	36.5	43.2	+2.6	51	13th	27	26th	41.0	88	87.0	
Mar	30.051	49.0	37.4	43.2	+0.2	59	18th and 23rd	28	20th	43.5	82	131.0	
April	30.090	56.0	43.0	49.5	+2.0	72	28th	31	1st	49.5	73	181.45	
May	30.034	63.8	48.0	56.0	+3.0	78	25th	38	15th	57.6	71	204.40	
June	30.153	67.0	51.5	59.2	+0.2	77	8th	41	1st	61.0	74	273.0	
July	29.942	66.3	55	60.6	-1.8	79	2nd	49	13th	61.6	76	188.0	
Aug	30.056	70.0	56.7	63.3	+0.9	74	8th and 25th	46	30th	63.5	78	198.25	
Sept	30.041	65.1	51.0	58.0	-0.5	74	17th	38	30th	59.3	79	230.0	
Oct	30.071	56.3	47.2	51.7	+1.4	63	12th 13th 14th	37	30th	51.5	88	78.45	
Nov	29.835	47.0	36.0	41.5	-4.0	57	12th	30	23rd	40.0	85	111.35	
Dec	29.701	49.4	40.8	45.2	+4.0	55	4th 9th 10th	31	14th	45.0	88	43.10	The same
Totals	359.423	685.2	541.7	613.3						614.8	968	1776	
Means	29.952	57.1	45.2	51.1	+0.8					51.2	80.6	148	

XXII.

REPORT, 1915.

CLOUD (0-10)		RAI	N		TEMPE	RTH					thei days								W	INE)			
		Diff.	Most	in a day	At	At			storm	y			frost	ce		(bse	rva	tion	s at	9 a	m,		
Mean Am- ount	Total fall	from Normal	Am- ount	Day	ı foot deep	4 foot deep	Snow	Hail	Thunderstorm	Clear Sk	Overcast	Fog	Ground frost	Wind-force 8 and above	Forces 4-7	Calm	ż	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
8.1	4.48	+2.0	.82	3rd	41.2	45.5	1			2	21		7		14	2	7	4	4		1		8	5
7.7	5.14	+3.12	.76	16th	41.7	44.3	2	1		3	20	3	13		14	1	5	1	1		4	4	7	5
6.5	.78	-0.96	.17	22nd	43.0	45.0				5	20	1	12		17	1	7	4	6	4	1		3	5
5.4	1.28	-0.37	.47	6th	48.5	47.6		1		11	13		6		15		7	3	7	1	1	3	3	5
5.0	3.52	+1.96	1.44	13th	56.5	53.1		1		12	14	1			9	2	1	4	12	5	1	2	2	2
4.7	.70	-1.21	.28	29th	62.0	58.4				9	5				3	1		1	10	4	3	2	7	2
5.1	3.38	+1.13	1.26	16th	64.5	61.1		1		4	10				3	1	3				1	5	12	9
5.0	1.19	-1.09	. 24	15th	64.7	62.2			2	6	11					5		1	1		1	6	9	8
3.0	3.06	+0.52	1.40	24th	59.8	60.7				15	8				4	4	2		8	2		2	7	5
7.0	3.50	+0.10	.70	31st	52.5	56.1				5	15	2	2		2	5	4	9	3	7		1		2
4.0	2.57	-0.60	.80	11th	43.4	49.6	1			14	11		14	1	3		9	7	3	2		3	3	3
7.0	7.81	+5.26	.90	26th	43.4	46.7				4	22	1	8	2	2		1	1	2	3	2	10	9	3
68.5	37.41	+9.44			620.0	630.3	4	4	2	90	170	8	62	3	86	22	46	35	57	28	15	38	70	54
5.7	3.11	+1.8	1.44	May 13th	51.7	52.5					-													

Census of 1911.

51,705

Total families or separate occupiers

Area of District in acres (land and inland water)—6,100.

APPENDIX.-TABLE I.

Vital Statistics of Whole District during 1915 and previous years.

										1
G TO	Ages	Rate	:	:	14.21	13.24	12.57	12.81	16.24	
SELONGINGTRICT.	At all Ages	Number	:	:	3289	3125	3080	3149	3284	
NETT DEATHS BELONGING TO THE DISTRICT.	Year age	Rate per 1,000 Nett Births	95	104	127	58	91	85	87	
NETT	Under 1	Number	556	603	734	466	545	486	433	
ERABLE THS.	of Resi-	dents not regis- tered in the District	:	:	7.5	81	85	86	55	
TRANSFERABLE DEATHS.	of Non-		:	:	106	97	86	125	176	
RED IN	INICI.	Rate	13.62	13.14	14.52	13.31	12.63	12.96	16.81	
TOTAL DEATHS REGISTERED IN	THE DE	Number	3045	2995	3361	3141	3096	3176	3405	
	t.	Rate	26.40	25.41	24.99	23.60	24.34	23.17	21-44	
BIRTHS.	Nett.	Number	:	:	5775	5570	5966	5678	4949	
		Un- corrected Number Number	5820	5801	5787	5605	5989	5714	4975	
	Population estimated to	Middle of each Year.	223,436	227,821	232,221	236,732	241,256	245,827	202,441	
	VEAR		1909	1910	1911	1912	1913	1914	1915	

APPENDIX. TABLE II.—Cases of Infectious Disease notified during the Year 1915.

Small-pox Cholera, Plague Diphtheria (including 923 Membranous croup) 109 Erysipelas 885	Under												B	
At all Ages	Under		At Age	At Ages—Years	LS.			⊶ qin	61	० ग	4 July	o T	, u	Total cases Removed
ague including nous croup)	-	1 to 5	5 to 15	15 to 25	25 to 45	45 to 65	65 and up- wards	ontstroq	Portsea	rodbus.I	I,andpor	-Mid- Southse	Southse	to Hospital
uding roup)	:	:	:	:	:	:	:	:	:	:	:	:		:
: :	:	:	:	:	:	:	:	:	:	:	:	:	:	:
: :	63	226	579	63	84	4	1	10	44	318	210	264	82	684
:	4	6	7	15	59	28	17	20	17	30	23	21	13	:
	10	183	521	125	48	65	:	18	97	291	188	222	69	630
Typhus fever	:	:	:	:	:	:	:	:	:	:	:	;	1	:
Enteric fever 97	:	11	35	13	31	7	:	:	4	31	33	24	10	33
Relapsing fever and	:	:	1	:	:	-;	:	:	:	:	:	:	:	:
Puerperal fever 6	:	:	:	:	9	:	:	:	1	89	1	1	:	:
Cerebro- spinal	8	14	25	47	16	1	1	25	17	33	15	17	20	27
Poliomyelitis	:	:	4	:	:	:	:	;	:	:	:	:	:	:
OphthalmiaNeonatorum 28	28	:	:	:	;	:	:	:	1	7	12	00	:	- 2
Pulmonary Tuberculosis 417	:	2	58	81	209	59	20	7	+1	92	149	102	26	80
Other forms of Tuber- 230 culosis	11	42	120	23	30	4	:	4	26	62	75	46	17	9
TOTALS 2802	53	490	1345	367	417	106	24	44	248	867	200	705	232	1460

Isolation Hospitals or Sanatoria 2. Sm

1. Milton Hospital for Infectious Diseases.
2. Small-pox Hospital at Elson (by arrangement with Gosport and Alverstoke U.D.C.)
3. The Langstone Consumption Hospital.

APPENDIX.—TABLE III.

Causes of, and Ages at, Death during the Year 1915.

							f " Res		,	Total Deaths whether of
Causes of Death	All ages.	Under 1 year	1 and under 2 years	2 and under 5 years			25 and under 45 years		65 and up- wards	" Residents" or " Non- Residents" in Institu- tions in the District.
1	2	3	4	5	6	7	8	9	10	11
All Causes Certified Uncertfd.	3265 19	428 5	213	160	174	110 1	422 1	751 3	1007 9	878
Enteric Fever Small-pox	15			1	6	1	7			8
Measles	123	27	44	33	19					5
Scarlet Fever	17	1	2	7	5	1	1			14
Whooping Cough	36	12	12	11	1					
Diphtheria and Croup	68	1	5	24	37		1			46
Influenza	51	1	1		4	3	7	16	19	2
Erysipelas	3	1						2		
Pulm. Tuberculosis	233			3	11	41	109	62	7	90
Tuberculous Meningitis	51	8	15	14	13	1				7
Other Tuberculous Diseases	69	15	13	5	4	10	13	9		17
Cancer, malignant	000		0				00			
disease	239		2	**		1	26	110	100	71
Rheumatic Fever	8	4	4	2	2 3		3	2	1 0	4
Meningitis Organic Heart Disease	339				6	5	3 41	138	149	91
Bronchitis	308	45	24	5	3	1	9	54	167	45
Pneumonia (all forms) Other diseases of	248	64	54	24	11	5	17	42	31	32
respiratory organs	37	1		3	1	2	6	10	14	5
Diarrhoea & Enteritis	69	44	8	1	3	1	6	3	3	4
Appendicitis & typhlitis	11				3	3	3	1	1	12
Cirrhosis of Liver	20						6	12	2	7
Alcoholism	13			**	**	**	9	4		8
Nephritis and Bright's Disease	103		1	1	5	5	14	49	28	15
Puerperal Fever	6						6			3
Other accidents and diseases of Preg-							4			
nancy & Parturition Congenital Debility and Malformation, in-	20	**			**	2	18		**	5
cluding Premature Birth	144	140	2	1	1					6
Violent Deaths, exclud- ing Suicide	96	14	- 5	7	14	5	16	20	15	32
Suicide	17					4	7	4	2	5
Other Defined Diseases	915	53	1	18	21	20	92	215	475	342
Diseases ill-defined or										
unknown	6	2			1		3			1
Totals	3284	433	213	160	174	111	423	754	1016	878

APPENDIX.—TABLE IV. Infantile Mortality.

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

CAUSE OF DEATH.		Under 1 week	I-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 mths. and under 9 mths	9 months and under 12 mths	Total Deaths under One Year
All causes—Certified		3 (3) (3)	35	16	19	156	66	77	59	27	435
Uncertified		. 3				3			2		5
Small-pox Chicken-pox Measles								3	5	19	27
Scarlet Fever										1	1
Whooping-Cough							1	4	5	2	12
Diphtheria and Croup										1	1
Erysipelas				4.0		**	1				1
Tuberculous Meningitis							1	2	3	2	8
Abdominal Tuberculosis							1	2	4	3	12
Other Tuberculous Diseases				4.4	1		1.0	2			3
Meningitis (not Tuberculous)							**	1	2	1	4
Convulsions		. 2	4	3	1	10	4	2	4	1	21
Laryngitis						11	11	100	**		**
Bronchitis	**	395	2	2	2	6	14	12	5	8	45
Pneumonia (all forms)		1	1	1	4	7	12	15	12	18	64
Diarrhoea			1		1	2	5	13	4	4	28
Enteritis			1 2				4	1	4	*:	10
Gastritis				1	2	3			2	1	6
Syphilis			**	**		3		1	**		5
0.00 11 11				1		5	2	2	2	**	11
Injury at Birth		0			**	2		100			2
Atelectasis		- 0				2					. 2
Congenital Malformations		- 4	- 1			5	1	3	2	2	13
Premature Birth		770	7	4	2	86	5	3	1	2	97
Atrophy, Debility and Maras		0	3	i	2	14	7	6			27
1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1											-
Other Causes		2	3	3	4	12	6	5	6	4	33
								-			
Total	s	99	25	16	19	159	66	77	61	70	433

Nett Births in the year—Legitimate 4717 Illegitimate 232

Port Sanitary Authority.

To the Chairman and Members of the Port Sanitary Authority.

GENTLEMEN,

There has again been no case of infectious disease on any vessel arriving at the Port during the year. There were found 20 cases of insanitation, which were remedied under the supervision of the Port Sanitary Inspector.

The total number of vessels arriving at the Port was 5,418, and of these 4,678 were from places in the Solent, 668 from other British ports, and 72 from foreign ports. The following is the nationality of the foreign vessels:—

Norwegian	 8	Dutch	 4
French	 10	Swedish	 4
Danish	1		

I have the honour to be, Gentlemen, Your obedient servant,

A. MEARNS FRASER, M.D.,

Medical Officer of Health to the Port of Portsmouth.

Milton Hospital.

To the Chairman and Members of the Hospital Committee.
Gentlemen,

I have the honour to submit my Annual Report for the year ending December 31st, 1915.

The number of admissions was 1,374, against 1,194 last year.

The number of deaths was 79; discharged 1,128; remaining 167. The combined mortality in respect of all cases was 5.7 per cent.

Scarlet Fever.—Of this disease 630 cases were admitted, last year 469; discharged 517; died 14; remaining 99; the fatality rate being 2.2 per cent. Of the fatal cases three died 24 hours after admission. In the great majority of cases the disease was mild and was followed by the usual complications.

DIPHTHERIA.—Admitted 684, last year 615; discharged 571; died 45; remaining 68, the fatality rate being 6.5 per cent. Of the faucial cases, two died within 24 hours of admission, and one on the way to the hospital. In 10 cases obstruction to respiration necessitated operation; tracheotomy was performed, 5 recovered, 5 died.

ENTERIC FEVER.—Admitted 33, discharged 25, died 8, the death-rate being 24.2 per cent. The small number of enteric admissions was due to the fact, that owing to the outbreak of Cerebro-spinal Meningitis, it was necessary to admit cases of that disease, the only accommodation available being the block usually occupied by enteric cases.

CEREBRO-SPINAL MENINGITIS.—Admitted 27, discharged 15, died 12, the fatality rate being 44.4 per cent.

Illness of Staff.—Four Nurses contracted Scarlet Fever, 2 Diphtheria; two Wardmaids, Diphtheria. All recovered.

I have to express my thanks to the Matron and Nursing Staff for their valuable help.

Your obedient servant,

JAMES McGREGOR,

Medical Superintendent.

TABLE XXIII.

MILTON HOSPITAL.

NUMBER OF PATIENTS ADMITTED during the Year 1915.

				A	GES	1	ľ	,	
DISEASES	0 to 1	to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 and over	TOTAL
Small-pox	 								
Scarlet Fever	 4	138	358	84	37	7	2		630
Typhoid Fever	 	3	12	6	8	3		1	33
Diphtheria	 3	171	415	53	21	19	1	1	684
Cerebro-spinal Fever	 1	9	11	5	1				27
TOTALS	 8	321	796	148	67	29	3	2	1374

TABLE XXIV.

NUMBER OF PATIENTS ADMITTED to the MILTON HOSPITAL

(Small-pox Patients-Langstone Hospital) for the years 1883 to 1915.

Year	Small-pox	Scarlet Fever	Enteric or Typhoid	Diphtheria	Measles	Other Diseases	Total
			-				
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	
1897		413	102	37	6	11	499 569
1898		436	92	118	6	10	662
1899	1	333	96	225		2	657
1900		198	157	211	1		567
1901	1	270	101	170			
1902	8	339	105	197			542
1903	3	572	70	211		2	649
1904		340	73	220		3	858
1905	10	274	57	198			636
1906	1	243	72	239			539
1907		202	109	235		**	555
1908		343	102	284	i	1	546
1909		631	96	354	1	1	731
1910		850	114	336			1082
1911		635	70	436			1300
1912		702	71	782			1141
1913		730	55	652			1555
1914		469	110	615			1437
1915		630	33	684	* *	07	1194
		000	0.0	004		27	1374

Report of the Chief Inspector of Nuisances

FOR THE YEAR 1915.

To the Chairman and Members of the Health Committee.

Gentlemen,

I have the honour to submit my Thirtieth Annual Report as Chief Inspector of Nuisances of the work carried out by the Department during the year 1915.

Owing to the scarcity of labour a good deal of difficulty has been experienced in getting work carried out within a reasonable time of the service of Notices, although owners of property have loyally endeavoured to meet the requirements of the Department. At the end of the year a large number of Notices were outstanding, but in nearly every case orders had been given for the work to be executed, and it was only necessary to take proceedings in the Police Court in three instances for the abatement of Nuisances.

2,401 Preliminary, and 736 Statutory Notices were served, and the following works were carried out under the supervision of your officers, viz.:—

DRAINAGE DEFECTS.

SANITARY DEFECTS IN CONNECTION WITH DWELLING-HOUSES AND WORKSHOPS.

DWELLING-HOUSES AND WORKSHOPS.		
Rain-water spouting cleansed, provided, or repaired		618
Roofs repaired		736
Outside walls protected or weather tiling repaired		166
Flooring, stairs, or doors repaired		315
Sashes, lines or sash frames repaired		319
Fixed window sashes made to open		62
Space under floors ventilated		91
Damp courses repaired or provided		28
Houses or parts of houses cleansed and distempered		290
Walls and ceilings repaired		185
Sanitary dustbins provided		7
Dust Chute cleansed		1
Yards repayed or paving repaired		553
Urinals cleansed or repaired		2
,, provided		1
Water-closets cleansed		20
reconstructed		2
Overgranding in dwelling houses shoted		32
workshops abated		2
Water Supply provided to dwelling houses		15
Pain water tanks removed		2
Foundations of houses concreted		7
		1
Occupation of cellar-dwelling discontinued		6
Gipsy Caravans cleansed		
Workshops cleansed and limewashed		46
,, ventilated		12
Ironing Stoves ventilated		3
Floors of Workshops drained		2
Other Nuisances in connection with dwelling-houses abated		97
workshops abated		48
Smoke Nuisance abated		1
OFFENSIVE MATTER, &c.		
Manure removed		22
Offal and bones removed		5
Refuse removed		51
Animals removed		13
Stagnant water removed		9
Bedding cleansed		7
Cesspits		6
SLAUGHTER-HOUSES, COWSHEDS, BAKEHOUSES		
SLAUGHTER-HOUSES, COWSHEDS, BAKEHOUSES		0
Slaughter-houses cleansed	s, &c.	3
Slaughter-houses cleansed	s, &c. 	4
Slaughter-houses cleansed	s, &c. 	4 16
Slaughter-houses cleansed	s, &c. 	4 16 23
Slaughter-houses cleansed	s, &c. 	4 16 23 12
Slaughter-houses cleansed	s, &c. 	4 16 23
Slaughter-houses cleansed	s, &c. 	4 16 23 12
Slaughter-houses cleansed	s, &c. 	4 16 23 12 3
Slaughter-houses cleansed	S, &c	4 16 23 12 3
Slaughter-houses cleansed	S, &c	4 16 23 12 3 8 2
Slaughter-houses cleansed	S, &c	4 16 23 12 3

The following articles of food have either been seized or have been given up for destruction by the owners or consignees as unfit for the food of man, viz. :-

Carcases of Beef and Offa	1 9	Conger Eels	11
Quarters of Beef		Lemon Soles	cases 8
Carcases of Mutton and o		,, ,, ., .,	stone 8
,, ditto (Colonia		Skate	12
,, Pork		,,	boxes 6
Legs of Mutton (Colonial)		Haddock	stone 3
Pieces of Beef & Mutton		,, (dried)	boxes 99
	lbs. 432	Codling (dried)	boxes 65
T: 0 TO 0 (0) 4 . 4)	., 110	Filletted Dried Fish	,, 137
Pieces of Bacon		Escalops	,, 1
Pigs' Plucks	24	Mackerel	,, 75
Set of Bullock's Offal	1		11,605
Ox Kidneys (Colonial)	lbs. 164	,, (dried)	boxes 11
Sheep's Kdineys (Col.)	,, 20	Plaice	basket 1
Ox Tails (Colonial)	,, 76	Prawns	tins 17
Ox Tongues (Colonial)	4	,,	1,800
Ox Livers (Colonial)	39	Salmon	2
Sweetbreads (Colonial)	boxes 4	,,	tin 1
Tripe (Colonial)	lbs. 170	Shrimps	galls. 158
Tripe (Colonial)	boxes 26	,,	sacks 3
Sausages	1bs. 60	Crabs	89
,,	box 1	,,	barrels 4
Pork Pie	1	Eggs	boxes 5
Whiting	cases 3	,, (preserved)	lbs. 56
Mixed Fish	,, 3	Fowls	21
Cray Fish	,, 5	Ducks	20
Cod Fish	stone 11	Grouse	4
,,	box 1	Turkeys	56
Cods' Roes	stone 51	Rabbits	65
Dabs	$,, 2\frac{1}{2}$,, (Colonial)	326
Bream	24	,, and Fruit	box 1
,,	boxes 4		boxes 2
Herrings	,, 26	,,	
,,	cwt. 8	Damsons	baskets 17
,,	barrels 17	Pears	boxes 26
Bloaters	boxes 46	Apples	cask 1
Kippers	., 109	,,	galls. 32
Hake	9	Greengages	baskets 12
Sprats	barrels 11	Water Cress	,, 1
" (Smoked)	box 1	Carrots	bags 100
Smelts	boxes 147	Potatoes	bushels 2
Gurnet	,, 2		

It was only necessary to obtain nine Magistrates' Orders for condemnation during the year.

GENERAL INSPECTION OF THE BOROUGH.

DWELLING HOUSES.—During the year 7,178 dwelling-houses were examined and 11,085 re-inspections of properties under Notice took place, whilst works ordered to be carried

out were in progress.

Included in the above were 1,072 house to house inspections, a smaller number than in previous years. The defects were not dealt with under the clauses in the Housing and Town Planning Act, but under the Public Health Act, 1875, and were chiefly in regard to dampness from defective roofs, rain-water spouting, and defective walls; want of ventilation in dwelling-houses, drainage, the provision of flushing cisterns to water closets, cleanliness, defective paving, etc.

COMPLAINTS.—870 Complaints were made at the office and received attention.

SLAUGHTER-HOUSES.—4,545 visits were made to the various Slaughter-houses. At the end of the year there were 75 in actual regular use and occupation, including 10 provisional licences.

Dairies, Cowsheds and Milkshops.—1,830 visits were made to the Dairies, Cowsheds and Milkshops. 223 applications for registration were made, including 10 as cowkeepers, compared with 276 last year, and I am pleased to report that the premises and the animals have been generally very well kept.

COMMON LODGING HOUSES.—During the year 541 visits have been made to the Common Lodging Houses. There are now only nine in occupation, one having been closed. The premises have been kept in a fairly cleanly state, and no action has been taken against any of the keepers.

Workshops.—Owing to the whole of the clerical staff of the Department having joined the Colours, Inspector Gray was relieved of his work under the Factory and Workshops Act and took over the clerical work of the office from May last, and the District Inspectors have visited Workshops and Bakehouses in their respective districts. 2,200 visits have been made by the Inspectors, and 103 visits were made by Miss Monk and 455 visits were made to outworkers' premises.

During the year Dr. Pearse, one of the Medical Inspectors of the Local Government Board, paid two visits to the town, and I accompanied him to a number of workshops and other places, where articles of food were being prepared for sale or sold to the troops in the garrison. Dr. Pearse made sugges-

tions for improvement in some of the premises, which were at once carried out by the occupiers under our supervision. The various places have since been regularly visited by the Inspectors, and in no case have we found anything of a suspicious nature being prepared for food.

Bakehouses.—1,128 visits have been made to the different Bakehouses, which have been kept clean and regularly limewashed. 16 Notices were sent with respect to limewashing.

INFECTIOUS DISEASES.—2,906 visits were made to premises where infectious diseases have occurred. The usual particulars were obtained for the Medical Officer of Health and the houses were examined for sanitary defects.

DISINFECTION.—2,308 rooms have been disinfected after infectious diseases, and a large number of articles of clothing bedding, etc., have been disinfected in the steam disinfector at Milton Hospital, as well as quantities of horse rugs sent in by the Military Authorities.

Drainage.—3,170 old drains were tested or re-tested by the District Inspectors. Inspector Turner tested or re-tested 1,025 new drains and 874 sanitary fittings in connection with new buildings. He has also tested a number of sewers and drains relaid by the Borough Engineer's staff.

Sale of Food and Drugs Act.—During the year 937 samples were submitted to the Public Analyst under the provisions of the above Act. Of these 85, or 9 per cent., were found to be adulterated. Of the samples taken 549 were milks, 8 skim milk, 163 butter, and 47 drugs. samples of milk were taken from vendors in the streets or at dairies, 142 were taken in course of delivery, and 2 were sent in by private persons. 29 of the milk samples purchased were found to be below the standard. Legal proceedings were taken in 18 cases, convictions were obtained in 12 of these, and 6 informations were dismissed; in five of the latter the defence of a warranty was successfully established, and the other case was dismissed because the analysis of the third part which was sent to Somerset House, did not agree with the Borough Analyst's certificate, although it was returned as below the standard. In 10 cases the vendors were cautioned. Of the 142 milks taken on delivery, 104 were from milks sent by farmers, and of these 31 or 30 per cent. were found to be below the standard. Proceedings were taken in 24 cases and convictions obtained in 8; three were dismissed on the ground that the milk was sold as drawn from the cow. Three farmers received letters of caution.

Thirty-eight samples of milk were taken during delivery at public institutions and private houses. Of these, 8 were below the standard; proceedings were taken in 4 cases and one conviction was obtained.

During September on six occasions visits were paid to the Mental Hospital, Milton, for the purpose of taking samples from the herd there. The results of the analysis showed that there was 3.33 per cent. of fat in the morning milk and 4.48 per cent. in the afternoon milk.

Two milk vendors were summoned for impeding the

Inspector and were fined £2 in each case.

PROSECUTIONS AND FINES.

Public Health Act, 1875.

Under the Nuisance Clauses of the Act proceedings were taken in three cases, viz.:—

Offence H.B. .. Non-compliance with Notice to Ordered to abate nuisance abate Nuisance at 3 St. Cathin 7 days. erine Street. R.S. .. Ditto in Merry Row .. Ditto within 6 weeks. W.W. . . Ditto at 1-6 Pavilion Place .. Ditto in 7 days and to pay 13/- Costs. A.B. .. Depositing for Sale at the Ports- Fined 6d. for each fish, or a mouth Town Station 673 dried total of £16 16s. 6d. Codling, which were unfit for the food of man. J.B. .. Depositing for Sale at the Fratton Fined £3 each piece. Total Station four quarters of Beef, £12. which were diseased and unfit for the food of man.

FOOD AND DRUGS ACT.—Forty-eight informations were laid with respect to adulteration. Twenty-two convictions were obtained, and Fines and Costs amounting to £63–14s. 0d. were inflicted. Ten cases were dismissed, chiefly on warranty grounds, three were dismissed on payment of the costs, two were withdrawn on payment of costs, eight other cases were withdrawn, and three were adjourned sine die.

Two persons were summoned for refusing to serve and obstructing the Inspector, and each were fined £2.

Under the Margarine Act, one information was laid and the case was withdrawn, the defendant being fined £1 under the Food and Drugs Act.

I am, Gentlemen,
Your obedient servant,
FRED L. BELL,
Chief Inspector of Nuisances.

The Diseases of Animals Act, &c.

To 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 December 31st, 1915.

INSPECTION OF CATTLE.—The following is a list of animals which have been imported into the Borough from all quarters during the year, viz.:—

(1) Cattle arriving at Town and Fratton Railway Stations, as follows:

Beasts	 	 8,498
Sheep	 	 22,400
Calves	 	 4,538
Pigs	 	 12,047
		-

47,483

(2) Cattle arriving by Horse Boats from the Isle of Wight:

Beasts	 	 723
Sheep	 	 1,756
Calves	 	 1,068
Pigs	 	 4,255
Yearlings	 	 257
Horses	 	 410

8,469

(3) Cattle arriving from the Western Districts, re Cosham Station, for Portsmouth:

Beasts	 	 1,659
Sheep	 	 5,997
Calves	 	 399
Pigs	 	 465

8,520

(4) Cattle arriving by Road from various markets, etc.:

		12,372
Pigs	 	 12
Calves	 	 3,366
Sheep	 	 8,339
Beasts	 	 655

The above is approximately the number that has arrived in the Borough during the year.

INSPECTION OF CATTLE TRUCKS, &c.—2,454 cattle trucks, 538 horse boxes, and 410 tow-boats have been inspected during the year. All of these were cleansed and lime-washed as required by the various orders made by the Board of Agriculture and Fisheries.

FOOT AND MOUTH DISEASE ORDER OF 1915.—In consequence of several outbreaks of the above disease occurring in different counties, the Board of Agriculture and Fisheries issued orders relating to the slaughter and movement of animals, by declaring such districts infected areas. These had my special attention, but no case has been detected or reported in the Borough during the year.

Swine Fever Order of 1908.—During the year three outbreaks of Swine Fever occurred in the Borough. of these cases were traced to a farm at Hayling Island. farmer was prosecuted for not reporting Swine Fever upon his premises. When his pigs were suffering from Swine Fever he took them to Cosham Market and some pig owners of this Borough bought them. In consequence of these outbreaks Form (B) was served upon twenty different pig owners, placing them under restriction for three months, by Order of the Board of Agriculture Inspectors. The number of animals affected by the outbreak was 681, of which 27 died, seven were killed by the Board's Veterinary Surgeon, and 143 fat pigs were licensed by the Board's Inspectors and myself to various Slaughterhouses. These had my supervision until they were dressed and passed fit for food. For the first time in this Borough the Board of Agriculture and Fisheries introduced the anti-Swine Fever Serum. Nearly the whole of the pigs at the Portsea Island Workhouse have been vaccinated against the disease, and it was reported by the Board's Officials to prove very satisfactory in the saving of pig life.

During the year I received from various districts no less than 2,585 licenses relating to the movement of fat pigs into the Borough for slaughter, and 131 licenses were issued for store pigs. These had the supervision of Inspector Turner and myself until the time expired for isolation by the Order.

Tuberculosis Order of 1914.—This Order has been suspended during the War, but it has been necessary from a health point of view to examine all animals, as far as possible, arriving in the Borough from certain districts, as a great deal of trading has been done during the year in suspicious and emaciated animals. I have given special attention to these until they were slaughtered.

Importation of Dogs Order of 1914.—During the year I have received several Licenses and Memoranda from the Board of Agriculture and Fisheries, and the Customs Officials in H.M. Dockyard, notifying dogs arriving from foreign parts into this Borough. Two were performing dogs and licensed to places of amusement. These had Inspector Turner's supervision until they were licensed by the Board of Agriculture and Fisheries to other towns.

Parasitic Mange Order of 1911.—This Order was suspended from the 6th day of August, 1914, with the exception of Article 7, which does not permit horses while suffering from Parasitic Mange to be exposed or come in contact with other horses, but on the 28th March the Order was enforced again.

During the year many complaints were made by the Police and owners of horses, and horses affected were dealt with until cured, except for one, which was so bad that the owner, by the advice of his Veterinary Surgeon, had it destroyed and the premises disinfected.

GLANDERS AND FARCY ORDER OF 1907.—During the year several horses were reported on suspicions of suffering from Glanders. Most of these were cart horses from the War Department, not suited for military purposes, but in no case was Glanders certified by the Veterinary Surgeon for the Borough.

RABIES ORDER OF 1897.—During the year several suspicious cases of Rabies have been reported. One dog reported by the Police as having bitten several people was shot. The Veterinary Surgeon made a post-mortem, but failed to find any trace of Rabies, and gave a certificate to that effect.

Animals (Transit and General) Order of 1912.— During the year no lame horses have been sent by rail from this Borough to foreign countries, but a large number of Government horses have been entrained for various parts. These are generally under the care of a Government Veterinary Surgeon, and my duty in these cases consists only in seeing the railway trucks and horse boxes are cleansed in accordance with the Orders during transit.

A large number of Orders and Instructions sent to me through the Town Clerk by the Board of Agriculture and Fisheries, relating to animals, have had my attention, and have all been vigorously carried out during the year.

I am, Sir,

Your obedient servant,

G. W. MONKCOM.

Female Inspector's Report.

TO THE MEDICAL OFFICER OF HEALTH.

I beg to report on the Inspection during the year as follows :-

NOTIFICATION OF BIRTHS ACT.

Births notified	 	 4,705
First visits paid	 	 4,046
Subsequent visits	 	 4,340

During the first months only six per cent. of the infants were found to be artificially fed.

EPIDEMIC DIARRHOEA.

Fatal cases amongst	Infants	 26
Under one year		 21
Over one and under	two years	 5

Of those under one year 17 were artificially fed, and of the five over one year, but under two, three were weaned when a few weeks of age.

OPHTHALMIA NEONATORUM.

Cases reported				28
Visits paid				200
All these cases	made	3 9000	d recov	rerv

cases made a good recovery.

Infectious Diseases.

Including cases of Measles 418 visits were paid.

Midwives Act.

Number of Midw	ives on	Reg	ister	46
Number of Cases a	attende	d by	Midwive	es 3100
Cases in which M				
was sent for				260
Still birthe				74
Inspections of Mi	dwives	and '	visits	
to Midwives'				726

There was no case of Puerperal Fever notified and no case of malpractice amongst midwives.

Workrooms and Out-workers.

To those of the above where females were employed 359 visits were paid.

MARY MONK,

Female Inspector and Health Visitor.

The Public Analyst's Report.

THE CHEMICAL LABORATORY,

16 ARUNDEL STREET,

PORTSMOUTH.

To the Chairman and Members of the Health Committee.

GENTLEMEN,

I beg to submit my Report on the work conducted in the Public Analyst's Department during the year ending December 31st, 1915.

Owing to the fact that I have no Assistant, the number of samples examined is slightly less than during the previous twelve months, and there is again an increase in the total adulteration compared with the same period. It will be seen in the following Report that the percentage of detected adulteration is steadily increasing. This is a very serious matter, and can only be met by a more vigorous enforcement of the Food and Drugs Act.

In August 1915, the Council granted me leave of absence for the duration of the War in order that I might take a Commission in the 2/6th Hants Regiment, and since that time the work of the Department has been carried on by Dr. A. Angell, of Southampton.

I have to express my indebtedness to Inspector J. S. Hobbs for the extremely thorough and efficient manner in which he has at all times carried out his duties.

I am, Gentlemen,
Your obedient servant,
REGINALD P. PAGE,
Public Analyst.

REPORT OF THE PUBLIC ANALYST.

During the year ending December 31st, 1915, the number of samples examined was 1,019, which may be briefly summarised as follows:—

Food and 1	Drug S	amples	 	937
Waters			 	40
Miscellaneo	ous		 	42
				1,019

The number of Samples taken in connection with the Sale of Food and Drugs Act is 937. This averages one sample to every 266 persons in the Borough, or a "Sample Rate" of 3.7 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 three 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.

Milk 549 483 66 12·0 Skim Milk 8 7 1 12·5 Condensed Milk 3 3 Cream 5 2 3 60·0 Butter 163 158 5 3·0 Margarine 16 16 Cheese 16 16 Cheese 16 16 Cream Cheese 1 1 Lard 11 1 Lard 11 1 Lard 11 1 Cream Cheese 1 1 Cream Cheese 1 1 Coffee 23 18 5 .21·7 Coffee 23 18 5 .21·7 Coffee	Nature of Sample	Number Examined	Number Genuine	Number Adulterated	Percentage o Adulteration
Skim Milk 8 7 1 12.5 Condensed Milk 3 3 Cream 5 2 3 60.0 Butter 163 158 5 3.0 Margarine 16 16 Cheese 16 16 Cheese 16 16 Cheese 1 1 Cheese 16 16 Cheese 1 1 Cheese 16 16 Cheese 1 1 Cream Cheese 1 1 Coffee 23 18 5 .21.7 Coffee 23 18 5 .21.7 Coffee 23 1 16 Mustard <	Milk	549	483	66	12.0
Condensed Milk 3 3 <td< td=""><td>CLI Aritt-</td><td>7.72</td><td></td><td>1000</td><td>100 March 2 75 March 2</td></td<>	CLI Aritt-	7.72		1000	100 March 2 75 March 2
Cream 5 2 3 60·0 Butter 163 158 5 3·0 Margarine 16 16 Cheese 16 16 Cheese 16 16 Cream Cheese 1 1 Lard 11 11 Lard 11 11 Coffee 23 18 5 21·7 Coffee and Chicory 1 1 Mustard 9 9 Ground Ginger 9 9	Condensed Mills	0			
Butter	Cream	5			0.00000
Margarine 16 16 16 <	D. 11-11				3.0
Cream Cheese 1 1 1 <	Margarine	16			
Aard	Cheese	16	16		
Tea	Cream Cheese	1	1		
Coffee .	Lard	11	11		
Cocoa	Tea		4		
Cocoa 16		23	18	5	21.7
Pepper	Coffee and Chicory	1	1		
Mustard 9 9 <td></td> <td>16</td> <td>16</td> <td></td> <td></td>		16	16		
Ground Ginger	Pepper		8		
Sam			10.8		
Corn Flour	Ground Ginger				
Corn Flour				2	28.5
Arrowroot					
Rice 12 12					
Pearl Barley					
Baking Powder 3 2 1 33·3 Sausages 1 1 Beer 1 1 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
Sausages			1.5	0.5%	
Beer				1	33.3
Honey					
Camphorated Oil 7 7					
Ammoniated Tincture of Quinine					
Ammoniated Tincture of Quinine	Control of the Contro			++	**
Quinine 2 25.0 Fincture of Iodine Beeswax Milk of Sulphur Boric Acid Ointment Mercury Ointment 1 1 Fodiform Ointment 2 2 Seidlitz Powders		4	4		**
Comparison of Todine Comparison of Todine of Todin		0	0	0	0=.0
Beeswax				2	25.0
Milk of Sulphur 3 Boric Acid Ointment 7 7 Mercury Ointment 1 1 Seidlitz Powders 6 6					
Boric Acid Ointment					
Mercury Ointment					
odiform Ointment 2 2 Seidlitz Powders 6 6					
Seidlitz Powders 6 6	210 01-11				
		14.5			
937 852 85 9.0		000			

From the figures given in the foregoing Table it will be seen that 9.0 per cent. of the samples examined were found to be "not genuine." Comparing this figure with that for the previous twelve months (6.4 per cent.) a marked increase is shown in the percentage of detected adulteration.

The corresponding figure for England and Wales is 8.2 per cent., and for London 9.1 per cent.

TABLE B.

ADULTERATED SAMPLES.

	****	0 1	27-4	
No.	Nature of		Nature of Adulteration	Result—Fines, &c.
8	Milk			 Dismissed on paying Costs 6/6.
29	Do.			. Fined 36/- and 4/- Costs.
67	Ammoniate			
	Quinine		10% deficient in Quinine Sulph	
74	Milk		4% deficient in fat	. Cautioned by M.O.H.
96	Amm. Tine			
00	Quinine		10% deficient in Quinine Sulph	
99	Milk		5.3% of added water .	
135	Do.		3% deficient in fat and 2% of	
120	D-		added water	. Withdrawn on paying costs 2/6
136	Do.	** **	7% of added water and 3% deficient in fat	
143	Do.		20/ - 6 - 33-3 4	Channel Start Land Street Co. 1
161	Coffee		000/ - 6 (01-1	
173	Milk		00/ 6 13 1 1 -	. Cautioned by M.O.H.
178	Do.		0 = 0/ of added	
193	Do.		20/ Jeffelant in fat	. ,, ,,
195	Do.		9 50/ of added water	
205	Do.		EO/ Antidont in for	. Case withdrawn (Farmer's).
206	Do.		0.07	. Not proceeded with (Farmer's).
207			= a/	. Case withdrawn (Farmer's).
210			100/	. Case dismissed (Farmer's).
213	**		10/	. Case withdrawn (Farmer's).
222	Coffee		FOO! - C (31 !	. Test Sample.
236	Do.		E00/ 6 01:	. Fined 20/
247	Milk		00/ 3-61-1	. Not proceeded with.
251	Do.		0.07	. Not proceeded with.
254	Do.			. Case dismissed.
284	Do			. Fined 30/
285	Do.		0 =0/ / 11 1	. Fined 20/
286	Do.			. Not proceeded with.
314	Raspberry	Jam	1.4 grs. of Salicylic Acid per ll	o. Test Sample.
322	Do.			. Do.
334	Milk		4% of added water	
335	Do.			. Fined £3, inclusive.
336	Do.		10% deficient in fat and 2% o	
200				. Fined 40/
337	Do.			. Not proceeded with.
345	Do.			. Fined 30/
	WW		7.879 evees of modelure	F10 - 1 - 10 - 1
353				. Test Sample.
362	Milk		17% deficient in fat .	. Fined 30/
362 368	Milk Do.		17% deficient in fat	. Fined 30/ . Fined 80/
362 368 401	Milk Do. Do.		17% deficient in fat	. Fined 30/ . Fined 80/ . Fined 20/
362 368 401 412	Milk Do. Do. Do.		17% deficient in fat	Fined 30/ Fined 80/ Fined 20/ Case dismissed (Warranty).
362 368 401 412 435	Milk Do. Do. Do. Do.		17% deficient in fat 40%	Fined 30/ Fined 80/ Fined 20/ Case dismissed (Warranty). Case dismissed.
362 368 401 412 435 438	Milk Do. Do. Do. Do. Skim Milk		17% deficient in fat 40% ,, ,, 7% ,, ,, 20% ,, ,, 10% of added water .	Fined 30/ Fined 80/ Fined 20/ Case dismissed (Warranty). Case dismissed. Fined 40/
362 368 401 412 435 438 444	Milk Do. Do. Do. Do. Skim Milk Milk		17% deficient in fat 40% ,, ,, ,, 7% ,, ,, 20% ,, ,, 10% of added water 10% deficient in fat	Fined 30/ Fined 80/ Fined 20/ Case dismissed (Warranty). Case dismissed. Fined 40/ Fined 40/
362 368 401 412 435 438 444 447	Milk Do. Do. Do. Skim Milk Milk Do.		17% deficient in fat 40% ,, ,, 7% ,, ,, 20% ,, ,, 10% of added water 10% deficient in fat 8% ,, ,,	Fined 30/ Fined 80/ Fined 20/ Case dismissed (Warranty). Case dismissed. Fined 40/ Fined 40/ Not proceeded with.
362 368 401 412 435 438 444 447 449	Milk Do. Do. Do. Skim Milk Milk Do. Do.		17% deficient in fat 40% ,, ,, 7% ,, ,, 20% ,, ,, 10% of added water 10% deficient in fat 8% ,, ,, 21% ,, ,,	Fined 30/ Fined 80/ Fined 20/ Case dismissed (Warranty). Case dismissed. Fined 40/ Fined 40/ Not proceeded with. Fined 80/
362 368 401 412 435 438 444 447 449 466	Milk Do. Do. Do. Skim Milk Milk Do. Do. Do.		17% deficient in fat 40% ,, ,, 7% ,, ,, 20% ,, ,, 10% of added water 10% deficient in fat 8% ,, ,, 21% ,, ,, 6% ,, ,,	Fined 30/ Fined 80/ Fined 20/ Case dismissed (Warranty). Case dismissed. Fined 40/ Fined 40/ Not proceeded with. Fined 80/ Case dismissed.
362 368 401 412 435 438 444 447 449	Milk Do. Do. Do. Skim Milk Milk Do. Do.		17% deficient in fat 40% ,, ,, ,, 7% ,, ,, ,, 20% ,, ,, ,, 10% of added water 10% deficient in fat 8% ,, ,, 21% ,, ,, 6% ,, ,, 35% ,, ,,	Fined 30/ Fined 80/ Fined 20/ Case dismissed (Warranty). Case dismissed. Fined 40/ Fined 40/ Not proceeded with. Fined 80/ Case dismissed. Fined 40/
362 368 401 412 435 438 444 447 449 466 468	Milk Do. Do. Do. Skim Milk Milk Do. Do. Do. Do.		17% deficient in fat 40% ,, ,, 7% ,, ,, 20% ,, ,, 10% of added water 10% deficient in fat 8% ,, ,, 21% ,, ,, 6% ,, ,, 35% ,, ,, 4% ,, ,,	Fined 30/ Fined 80/ Fined 20/ Case dismissed (Warranty). Case dismissed. Fined 40/ Fined 40/ Not proceeded with. Fined 80/ Case dismissed. Fined 40/
362 368 401 412 435 438 444 447 449 466 468 469	Milk Do. Do. Do. Skim Milk Milk Do. Do. Do. Do. Do. Do.		17% deficient in fat 40% ,, ,, 7% ,, ,, 20% ,, ,, 10% of added water 10% deficient in fat 8% ,, ,, 21% ,, ,, 6% ,, ,, 35% ,, ,, 4% ,, ,, Consisted of Margarine	Fined 30/ Fined 80/ Fined 20/ Case dismissed (Warranty). Case dismissed. Fined 40/ Fined 40/ Not proceeded with. Fined 80/ Case dismissed. Fined 40/ Cautioned by M.O.H.
362 368 401 412 435 438 444 447 449 466 468 469 471	Milk Do. Do. Do. Skim Milk Milk Do. Do. Do. Do. Do. Do. Do. Butter		17% deficient in fat 40% ,, ,, 7% ,, ,, 20% ,, ,, 10% of added water 10% deficient in fat 8% ,, ,, 21% ,, ,, 6% ,, ,, 35% ,, ,, Consisted of Margarine 10% deficient in fat	Fined 30/ Fined 80/ Fined 20/ Case dismissed (Warranty). Case dismissed. Fined 40/ Fined 40/ Not proceeded with. Fined 80/ Case dismissed. Fined 40/ Cautioned by M.O.H. Private sample sent in. Not proceeded with.
362 368 401 412 435 438 444 447 449 466 468 469 471 477	Milk Do. Do. Do. Skim Milk Milk Do. Do. Do. Do. Butter Milk		17% deficient in fat 40% ,, ,, 7% ,, ,, 20% ,, ,, 10% of added water 10% deficient in fat 8% ,, ,, 6% ,, ,, 35% ,, ,, Consisted of Margarine 10% deficient in fat 8% ,, ,,	Fined 30/ Fined 80/ Fined 20/ Case dismissed (Warranty). Case dismissed. Fined 40/ Fined 40/ Not proceeded with. Fined 80/ Case dismissed. Fined 40/ Cautioned by M.O.H. Private sample sent in. Not proceeded with.
362 368 401 412 435 438 444 447 449 466 468 469 471 477 479 480 481	Milk Do. Do. Do. Skim Milk Milk Do. Do. Do. Do. Do. Do. Butter Milk Do. Do. Do.		17% deficient in fat 40% ,, ,, ,, 7% ,, ,, 20% ,, ,, 10% of added water 10% deficient in fat 8% ,, ,, 6% ,, ,, 35% ,, ,, Consisted of Margarine 10% deficient in fat 8% ,, ,, 5% ,, ,, 25% ,, ,,	Fined 30/ Fined 80/ Fined 20/ Case dismissed (Warranty). Case dismissed. Fined 40/ Fined 40/ Not proceeded with. Fined 80/ Case dismissed. Fined 40/ Case dismissed. Fined 40/ Not proceeded with. Private sample sent in. Not proceeded with.
362 368 401 412 435 438 444 447 449 466 468 469 471 477 479 480 481 494	Milk Do. Do. Do. Skim Milk Milk Do. Do. Do. Butter Milk Do. Do.		17% deficient in fat 40% ,, ,, ,, 7% ,, ,, ,, 20% ,, ,, ,, 10% of added water 10% deficient in fat 8% ,, ,, 6% ,, ,, Consisted of Margarine 10% deficient in fat 8% ,, ,, Consisted of Margarine 10% deficient in fat 8% ,, ,, 5% ,, ,, 25% ,, ,, 60% of Chicory	Fined 30/ Fined 80/ Fined 20/ Case dismissed (Warranty). Case dismissed. Fined 40/ Fined 40/ Not proceeded with. Fined 80/ Case dismissed. Fined 40/ Case dismissed. Fined 40/ Cautioned by M.O.H. Private sample sent in. Not proceeded with.
362 368 401 412 435 438 444 447 449 466 468 469 471 477 479 480 481	Milk Do. Do. Do. Skim Milk Milk Do. Do. Do. Do. Do. Do. Butter Milk Do. Do. Do.		17% deficient in fat 40% ,, ,, ,, 7% ,, ,, 20% ,, ,, 10% of added water 10% deficient in fat 8% ,, ,, 6% ,, ,, 35% ,, ,, Consisted of Margarine 10% deficient in fat 8% ,, ,, 5% ,, ,, 25% ,, ,,	Fined 30/ Fined 80/ Fined 20/ Case dismissed (Warranty). Case dismissed. Fined 40/ Fined 40/ Not proceeded with. Fined 80/ Case dismissed. Fined 40/ Case dismissed. Fined 40/ Cautioned by M.O.H. Private sample sent in. Not proceeded with. """ Fined £10. Test Sample. Cautioned under Milk and Cream
362 368 401 412 435 438 444 447 449 466 468 469 471 477 479 480 481 494	Milk Do. Do. Do. Skim Milk Milk Do. Do. Do. Butter Milk Do. Coffee Cream		17% deficient in fat 40% ,, ,, ,, 7% ,, ,, ,, 20% ,, ,, ,, 10% of added water 10% deficient in fat 8% ,, ,, 21% ,, ,, 6% ,, ,, 35% ,, ,, 4% ,, ,, Consisted of Margarine 10% deficient in fat 8% ,, ,, 5% ,, ,, 5% ,, ,, 25% ,, ,, 60% of Chicory ,, 60% of Chicory ,, 60% of Boric Acid	Fined 30/ Fined 80/ Fined 20/ Case dismissed (Warranty). Case dismissed. Fined 40/ Fined 40/ Not proceeded with. Fined 80/ Case dismissed. Fined 40/ Case dismissed. Fined 40/ Cautioned by M.O.H. Private sample sent in. Not proceeded with.
362 368 401 412 435 438 444 447 449 466 468 469 471 477 479 480 481 494 497	Milk Do. Do. Do. Skim Milk Milk Do. Do. Do. Butter Milk Do. Coffee Cream		17% deficient in fat 40% ,, ,, ,, 7% ,, ,, ,, 20% ,, ,, ,, 10% of added water 10% deficient in fat 8% ,, ,, 21% ,, ,, 6% ,, ,, 35% ,, ,, 4% ,, ,, Consisted of Margarine 10% deficient in fat 8% ,, ,, 5% ,, ,, 5% ,, ,, 60% of Chicory 0.27% of Boric Acid	Fined 30/ Fined 80/ Fined 20/ Case dismissed (Warranty). Case dismissed. Fined 40/ Fined 40/ Not proceeded with. Fined 80/ Case dismissed. Fined 40/ Cautioned by M.O.H. Private sample sent in. Not proceeded with. """ Fined £10. Test Sample. Cautioned under Milk and Cream Regulations.
362 368 401 412 435 438 444 447 449 466 468 469 471 477 479 480 481 494 497	Milk Do. Do. Do. Skim Milk Milk Do. Do. Do. Butter Milk Do. Coffee Cream Do. Do.		17% deficient in fat 40% ,, ,, ,, 7% ,, ,, ,, 20% ,, ,, ,, 10% of added water 10% deficient in fat 8% ,, ,, 6% ,, ,, 35% ,, ,, Consisted of Margarine 10% deficient in fat 8% ,, ,, 5% ,, ,, 25% ,, ,, 60% of Chicory 0·27% of Boric Acid	Fined 30/ Fined 80/ Fined 20/ Case dismissed (Warranty). Case dismissed. Fined 40/ Fined 40/ Not proceeded with. Fined 80/ Case dismissed. Fined 40/ Case dismissed. Fined 80/ Case dismissed. Fined 40/ Cautioned by M.O.H. Private sample sent in. Not proceeded with. """ "" "" "" "" "" "" "" "" "" "" ""
362 368 401 412 435 438 444 447 449 466 468 469 471 477 479 480 481 494 497	Milk Do. Do. Do. Skim Milk Milk Do. Do. Do. Butter Milk Do. Coffee Cream		17% deficient in fat 40% ,, ,, ,, 7% ,, ,, ,, 20% ,, ,, ,, 10% of added water 10% deficient in fat 8% ,, ,, 21% ,, ,, 6% ,, ,, 35% ,, ,, Consisted of Margarine 10% deficient in fat 8% ,, ,, 5% ,, ,, 5% ,, ,, 60% of Chicory 0·27% of Boric Acid	Fined 30/ Fined 80/ Fined 20/ Case dismissed (Warranty). Case dismissed. Fined 40/ Fined 40/ Not proceeded with. Fined 80/ Case dismissed. Fined 40/ Case dismissed. Fined 80/ Case dismissed. Fined 40/ Cautioned by M.O.H. Private sample sent in. Not proceeded with. """ "" "" "" "" "" "" "" "" "" "" ""

No.	Natur	e of Sam	ple	Nature of Adulteration	Results—Fines, &c.
556	Milk			3% of added water	Not proceeded with.
337	Do.			5% ,, ,,	"
558	Do.			8% ,, ,,	Case dismissed (Farmer's Milk).
559	Do.			2.5% ,, ,,	Not proceeded with.
560	Do.			13.3% ,, ,,	Fined £5.
561	Do.			10% ,, ,,	Not proceeded with.
576	Do.			6% ,, ,,	Case dismissed (Warranty).
604	Do.			9% deficient in fat	Cautioned by Town Clerk
615	Do.			6.6% ,, ,,	"
626	Do.			6% ,, ,,	,, ,,
668	Do.	.,		18.3% ,, ,,	Case dismissed. Third part sent
					to Somerset House. Re- turned not less than 6% deficient in fat.
669	Do.			8.3% deficient in fat	Fined 20/
671	Do.			6.6% deficient in fat	Cautioned by M.O.H.
680	Do.			25% of added water	Test Sample.
696	Do.			15% deficient in fat	Fined 21/
704	Do.			28.3% ,, ,,	Private Sample.
709	Do.			16.6% ,, ,,	Fined £5.
710	Do.			8.3% ,, ,, and 1.7%	
				added water	Not proceeded with after pre- vious case.
717	Do.			3.3% deficient in fat	Cautioned by M.O.H.
723	Butter			Consisted of Margarine	Test Sample.
733	Milk			1.65% added water and con-	
				tained traces of Formalin	Cautioned by M.O.H.
745	Butter			Consisted of Margarine	Fined 20/
775	Coffee			40% of Chicory	Test Sample.
786	Milk		1.1	13.3% deficient in fat	Fined £5.
807	Do.			18·3% ,, ,, and 9% of	Security Walter
				added water	Fined 10/6.
815	Do.			56-6% deficient in fat	Fined £5.
884	Butter			Consisted of Margarine	Test Sample.
892	Milk		**	3.6% of added water	Cautioned by M.O.H.

Total Fines, including Costs, amounted to £62 13s. 0d.

Two milk vendors were summoned for impeding and obstructing the Inspector from taking samples of milk, and in each case a fine of 40/- was imposed. Several milk vendors were personally cautioned by the Inspector for not having their names and addresses on receptacles from which milk was served.

TABLE C.

Showing the number of samples analysed and the number found to be adulterated in Portsmouth during the last five years.

		Year	Samples Examined	Number Adulterated	Percentage Adulterated
PORTSMOUTH		 1911	1123	54	4.8
Do.		 1912	1140	52	4.5
Do.		 1913	1072	27	2.5
Do.		 1914	1099	70	6.4
Do.		 1915	937	85	9.0
ENGLAND AND	WALES	 1911	103221 -	9009	8.7
Do.	do.	 1912	108174	9086	8.4
Do.	do.	 1913	108157	8860	8.2

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
PORTSMOUTH		 1911	544	34	6.2
Do.		 1912	480	27	5.6
Do.		 1913	466	16	3 · 4
Do.		 1914	530	49	9.2
Do.		 1915	549	66	12.0
ENGLAND AND V	VALES	 1913	52539	5582	10.6

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.

Each sample of milk is submitted to as complete an examination as possible, in order to ascertain the actual quality of the milk supplied in the town, and the following table, which includes all milks, both genuine and adulterated, gives the average percentage of Fat and of Non-fatty Solids for each month of the year under review:—

TABLE E.

		Fat	Solids not Fat	Total Solids
JANUARY		 3.32	8.80	12.12
FEBRUARY		 3.36	8.73	12.09
MARCH		 3.30	8.75	12:05
APRIL	4.0	 3.29	8.66	11.95
MAY		 3.34	8.77	12.11
JUNE		 3.32	8.76	12.08
JULY		 3 · 44	8.58	12.02
AUGUST		 3.67	8.71	12.38
SEPTEMBER		 3.39	8.71	12.10
OCTOBER		 3.32	8.90	12.22
NOVEMBER		 3.33	8.89	12.22
DECEMBER		 3.38	8.74	12.12
Annual M	fean	 3.37	8.75	12.12

During the year there have been 104 samples of milk taken at the Railway Stations, and of these 31 were found to be below the standard required. This means that one-third of the samples taken at the stations were found to be "not genuine," and shows the necessity of constantly sampling the milk coming into the town.

Proceedings were instituted in 24 cases, convictions being obtained in 8 cases. Two cases were withdrawn on payment of Costs, the farmer having previously obtained a conviction against his cowman for watering the milk. Three cases were dismissed, the Magistrates apparently being satisfied that the milk was sold "as drawn from the cow," and the other cases were not proceeded with after a conviction was recorded against the farmer.

The mean composition of the farmers' milk was 3.25 per cent. of fat and 8.65 per cent. of non-fatty solids.

Thirty-seven samples of milk were obtained from Kingston Workhouse, Royal Marine Artillery Barracks, and the various Hospitals in the Borough. Three of these samples were returned as adulterated, and four samples were returned as being below the contract standard of 3.5 per cent. milk fat.

The average composition of these milks was 3.7 per cent. of milk fat and 8.75 per cent. non-fatty solids.

BUTTER.

163 samples of Butter were examined during the year, and of these 5 or 3.06 per cent. were found to be not genuine.

Of the 5 adulterated samples, one contained an excess of moisture, one was a mixture containing 43 per cent. of foreign fat, and three consisted wholly of margarine.

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 Adulterated
Portsmouth		 1911	227	4	1.7
Do.		 1912	312	25	4.8
Do.		 1913	303	4	1.3
Do.		 1914	249	4	1.6
Do.		 1915	163	5	3.06
ENGLAND AND V	WALES	 1913	21932	1113	5.2

Each sample of Butter is examined for the presence of Preservatives, and in the following table is given the percentage of samples in which Boracic Compounds have been found during the last three years.

	Year	Number Examined	Number containing Boracic Compounds	Percentage containing Boracic Compounds
PORTSMOUTH	 1913	303	244	80 · 6
Do.	 1914	249	208	83 · 5
Do.	 1915	163	110	80.9

GROCERIES.

Twenty-three samples of Coffee were taken, and of these five were found to contain Chicory. A conviction was obtained in one case.

One sample of Baking Powder was found to be deficient in Available Carbon Dioxide, and the vendor warned.

JAM.

Seven samples of Jam were examined, two of which contained traces of Salicylic Acid, but since the quantity of this substance detected was too small to exercise any preservative action on the whole sample, it is extremely likely that the paper laid upon the surface of the jam had been dipped in a solution of Salicylic Acid to prevent the growth of moulds upon the surface.

DRUGS.

Ammoniated Tincture of Quinine.—The two adulterated samples of this substance were found to be slightly deficient in Quinine Sulphate—the active principle of the Tincture. The vendor was warned in both instances.

MISCELLANEOUS SAMPLES.

In addition to the samples of Foods and Drugs examined, analyses were made during the year of various substances on behalf of different Committees, as follows:—

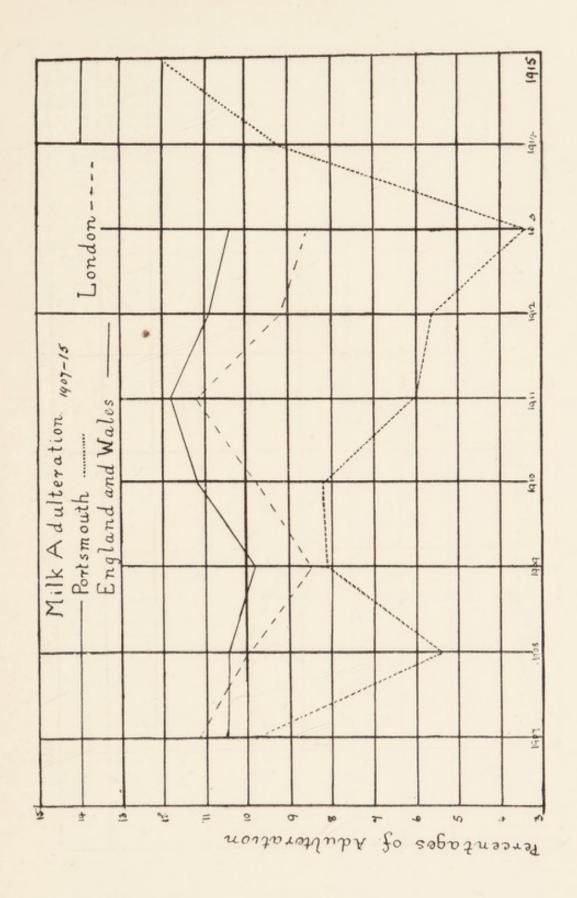
Paint			12
Turpentine		 	 10
Linseed Oil		 	 9
		 	 . 2
Varnish		 	 2
Russian Petro	oleum	 	 2
Patent Drier		 	 1
Lard Oil		 	 1
Colza Oil		 	 1
Cement		 	 1
Fowl (dead)		 	 1
			- 42

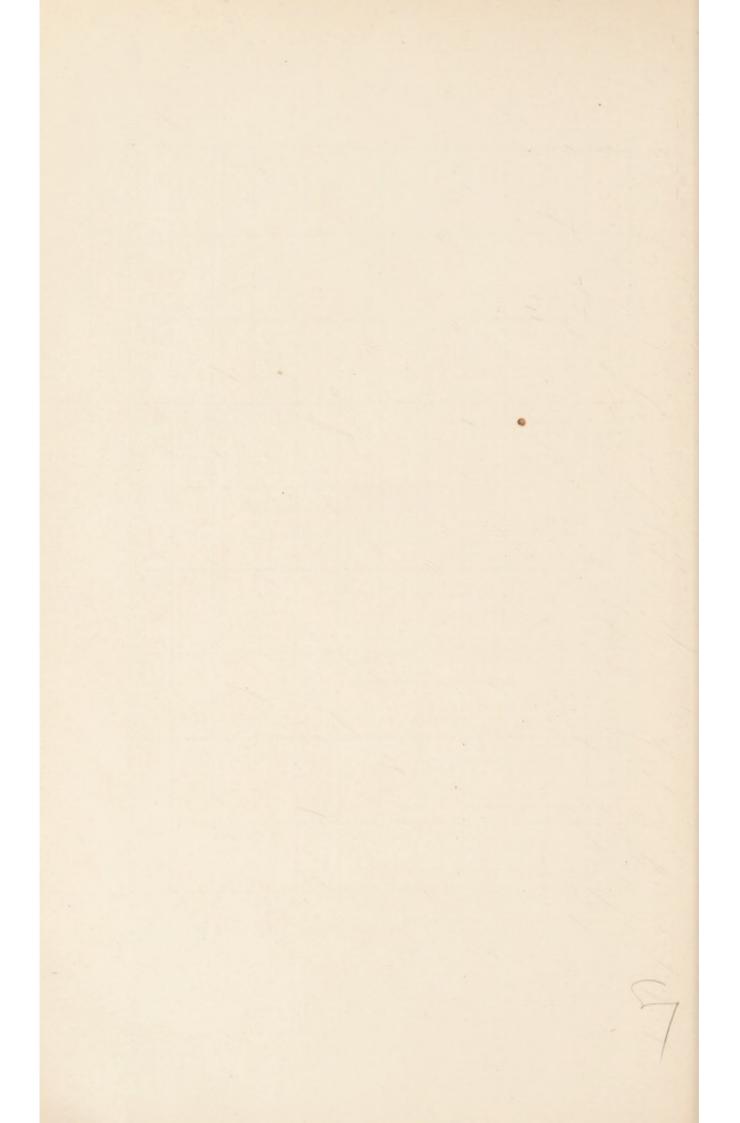
The 40 samples of Water analysed during the year were derived mainly from the Town Supply and from Baffins Tip.

REGINALD P. PAGE,

Public Analyst.

Food and Drug Adulteration Porlsmouth ______ England and Wales d Percentages of Adulteration





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