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MAP showing incidence of certain infectious diseases in Portsmouth during the year ending December 31st, 1923.





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“SALUS POPULI SUPREMA LEX.”



REPORT

ON

The Health of Portsmouth

For the Year 1923

BY

A. MEARNS FRASER

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

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

INCLUDING

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

PORTSMOUTH :

W. H. BARRELL, LTD., 114 HIGH STREET.



Health and Housing Committee

1922-23.

THE WORSHIPFUL MAYOR—
ALDERMAN F. G. FOSTER, J.P.

CHAIRMAN.

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

VICE-CHAIRMAN :

COUNCILLOR H. W. BLACKADAR.

ALDERMAN SIR GEORGE E. COUZENS, J.P., K.L.H., O.R.O.R.

ALDERMAN T. E. FULLJAMES.

ALDERMAN J. MULVANY, J.P., L.R.C.P. (Edin.)

ALDERMAN SIR JOHN TIMPSON, K.B.E., J.P.

COUNCILLORS :

J. F. HOOPER

A. BOSWORTH WRIGHT, M.R.C.S.

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S. SALTER

A. HEMINGWAY

W. R. WARD

J. W. PERKINS, J.P.

W. A. BILLING

F. J. PRIVETT, M.P., J.P.

W. E. C. SPERRING

J. W. CARTER

OFFICERS OF THE Medical Officer of Health's Dept.

Medical Officer of Health :

A. MEARNS FRASER, M.D., D.P.H.

Assistant Medical Officer of Health :

ROWAN W. REVELL, M.D., D.P.H., M.R.C.S., L.R.C.P. (Lond.),
M.B.B.S. (Lond.)

Senior Sanitary Inspector :

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

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

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

Inspector of New Buildings and Sanitary Inspector :

W. H. TURNER, Certs. San. Inst. and Adv. Bdg. Constn.

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

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

Sanitary Inspectors :

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

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

H. HOLMAN, Cert. San. Inst.

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

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

F. R. BELL, Cert. San. Inst.

Health Visitors :

*MISS D. POULSON

*MISS M. E. HANDLEY

*MISS A. KNIGHT

*MISS L. CUDLIPP

*MRS. M. SMEATON

First Asst. Clerk : L. C. ROGERS.

Asst. Clerk : J. E. C. MERRIFIELD

Port Sanitary Inspector : A. YATES

Disinfecter : S. ROE.

**Certified Midwife.*

Municipal Tuberculosis Dispensary.

Medical Officer :

ROWAN W. REVELL, M.D., D.P.H., M.R.C.S., L.R.C.P. (Lond.),
M.B.B.S. (Lond.)

Nurses :

*MISS N. ALLEN	*MISS E. ETHERINGTON
MISS L. LAMB	MISS V. F. WARDLAW

Secretary :

*MISS E. HEALEY

Almoner :

MISS F. K. M. BONE

Child Welfare Centres.

Medical Officer :

RONALD K. FORD, M.R.C.S. (Eng.), L.R.C.P. (Lond.)

Langstone Hospital.

Sister-in-Charge .. MISS M. BOOKER.

Municipal Maternity Hospital.

Medical Officer :

RONALD K. FORD, M.R.C.S. (Eng.), L.R.C.P. (Lond.)

Matron :

*MISS C. A. ARKCOLL

Infectious Diseases Hospital.

Medical Superintendent :

† J. MCGREGOR, L.R.C.P., L.R.S.C.

Matron : MISS F. PETCHEY

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

Assistant : C. M. BECKETT

**Certified Midwife.*

†*Part-time Medical Officer.*

Medical Officer's Report, 1923.

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

GENTLEMEN,

I beg to submit for your consideration my Annual Report on the Health of Portsmouth for the year 1923.

The shortage of houses is still the condition which most urgently demands attention. Some progress has been made with the Voller Street unhealthy area, but the reconstruction scheme is still far from completion.

There has been a slight decrease in the prevalence of infectious disease in the Borough, largely due to fewer cases of scarlet fever.

The death-rate, 10.9 is the lowest ever recorded in the Borough, and the extraordinarily low infantile mortality rate of 52 is also a record.

This is the twenty-ninth Annual Report on the Health of Portsmouth which I have prepared.

I have the honour to be, Gentlemen,

Your obedient servant,

A. MEARNS FRASER, M.D.,

Medical Officer of Health.

SUMMARY FOR 1923.

Civil Population (estimated to middle of 1923) 230,718

1.—GENERAL STATISTICS.

Area in Acres (land and inland water) ..	7,964
Population (Census 1921) : Civil 233,929 ;	
Naval and Military, 13,414 ..	Total 247,343
Number of Inhabited Houses	51,692
Rateable Value	£1,240,911
Sum represented by a Penny Rate	£4,900
Average number of persons in each house ..	4.6
Average number of persons per acre ..	30.1
Total Rainfall	29.54 inches, 750 millimetres

2.—EXTRACTS FROM VITAL STATISTICS.

Births.	TOTAL	MALE	FEMALE
Legitimate ..	5,053	2,561	2,492
Illegitimate ..	261	126	135
Birth Rate ..	21.0		
Number of Women dying in, or in consequence of Childbirth :—			
From Sepsis ..	6	Other Causes ..	13
Deaths of Infants under one year of age per 1,000 births :			
Legitimate ..	49	Illegitimate ..	95
		Total ..	52

COMPARISON WITH PREVIOUS YEAR.

	1923		1922	
	Population		Population	
	Total—252,300		Total—249,700	
	Civil—230,718		Civil—236,630	
	Number	Rate per 1000 living	Number	Rate per 1000 living
*BIRTHS	5314	21.0	5529	22.1
*DEATHS	2524	10.9	2874	12.1
Principal Zymotic Diseases	141	0.61	149	0.61
Small-pox	—	—	—	—
Measles	39	0.16	12	0.05
Scarlet Fever	5	0.02	12	0.05
Diphtheria	46	0.19	48	0.20
Whooping Cough	9	0.03	42	0.17
Fever	11	0.04	3	0.01
Diarrhoea (under 2 years)	31	0.13	32	0.13
Pulmonary Tuberculosis ..	191	0.82	207	0.87
Cancer	290	1.25	285	1.20
Influenza	47	0.20	125	0.52
	Number	Rate per 1000 births	Number	Rate per 1000 births
Under 1 year of age ..	276	52	349	63

AVERAGE DEATH-RATE for previous Ten years (1913-1922) .. 13.2

* The Birth-rate is calculated on the total population and the Death-rates on the civil population only.

STATISTICS.

During the year there were published the results obtained in Portsmouth from the 1921 Census. The Census was originally planned to have been taken on the 24th April, but owing to a threatened strike of railwaymen and transport workers it was decided to postpone it until the 19th June ; it was not found that the alteration in the date of taking the census had any appreciable effect in showing the population of Portsmouth to contain a larger number of visitors than if it had been taken at the customary time.

Population.—The Census showed that the population was 247,284, an increase of 13,711 over the population at the 1911 Census. The natural increase of population during the period 1911-21, from the excess of births over deaths was 24,047 ; against this there was a loss by migration of 10,336, of whom 1,670 were men in the Services ; in the previous intercensal period, 1901-1911, instead of there being a loss by migration, there was an increase of 17,796. The increase of 13,711 represents a percentage increase of only 5.9 over the 1911 population, whereas the 1911 census population showed an increase of 22.7 per cent. over the census population of 1901. It is of interest to give the previous five census returns to show the growth of the Borough during the past 50 years. These are as follows :—

GROWTH OF BOROUGH IN 50 YEARS.

Census Year	Population	Increase over previous Census	Percentage increase over previous census
1871	113,595	18,767	20.0%
1881	128,022	14,427	12.7%
1891	159,278	31,256	24.4%
1901	190,281	31,003	19.4%
1911	233,573	43,292	22.7%
1921	247,284	13,711	5.9%
Whole of England and Wales 1921 ..	37,885,242	1,814,750	4.9%

Males and Females.—The population of 247,284 is made up of 121,020 males and 126,264 females, the latter exceeding the males by 5,244. At the 1911 Census the females exceeded the males by only 771, the numbers being, males 116,401, and females 117,172. The excess of females over males is

seen only above the age of 24 years, up to that age there is a slight excess of males over females. The following table gives the numbers of males and females at various age periods :

	Aged up to 4 years last birthday	Years 5-9	Years 10-14	Years 15-19	Years 20-24	Years 25-34	Years 35-44	Years 45-54	Years 55-64	Years 65 and upwds	Total population all ages
Males ..	11,939	11,385	11,110	10,978	11,826	19,287	17,505	12,966	8,086	5,938	121,026
Females ..	11,365	11,142	11,297	10,361	10,042	20,575	18,978	14,213	9,653	8,638	126,264
Excess of Males or Females ..	Males +574	Males +243	Femls +187	Males +617	Males +1784	Femls +1288	Femls +1473	Femls +1247	Femls +1567	Femls +2700	Femls +5244

Families.—The number of the population in private families was 223,901 ; the number of private families 57,412 ; and the average number in a family 3.9. The number of rooms per person was 1.20. The following table gives particulars as to the numbers of families in the Borough, the sizes of the families, and the number of rooms occupied by each family according to its size :—

PRIVATE FAMILIES, CLASSIFIED BY SIZE OF FAMILY AND ROOMS OCCUPIED.

Number of persons in family.	Number of Private Families occupying the following No. of Rooms										Total Private Families	% Families	Population in Private Families	Rooms Occupied	Average number of rooms per person
	Number of Private Families occupying the following No. of Rooms														
	1	2	3	4	5	6-7	8-9	10 and over							
1	1,033	1,085	443	597	316	412	51	10	3,945	6.9	3,947	11,576	2.93		
2	445	2,507	1,247	2,499	1,900	2,342	261	49	11,250	19.6	22,500	45,766	2.03		
3	189	1,761	1,168	2,834	2,730	3,652	409	95	12,838	22.3	38,514	59,020	1.53		
4	54	713	767	12,625	2,701	3,534	380	118	10,892	19.0	43,568	53,928	1.24		
5	11	221	362	1,821	1,953	2,813	322	107	7,610	13.3	38,050	39,762	1.04		
6	7	86	218	1,043	1,250	1,845	228	86	4,763	8.3	28,578	25,421	0.89		
7	..	37	105	594	747	1,244	144	77	2,948	5.1	20,636	16,233	0.79		
8	..	8	52	331	429	674	83	42	1,619	2.8	12,952	9,008	0.70		
9	1	4	22	169	213	324	40	27	800	1.4	7,200	4,467	0.62		
10	..	1	4	75	114	209	35	19	457	0.8	4,570	2,699	0.59		
11	..	..	2	32	37	83	7	5	166	0.3	1,826	670	0.53
12	..	..	..	10	20	28	5	3	66	0.1	792	402	0.51
13	..	..	..	6	6	16	6	2	36	0.1	468	221	0.47
14	..	..	..	..	1	8	3	..	12	0.0	168	78	0.46
15 and over	..	..	..	..	..	2	5	1	8	0.0	132	63	0.49
Total Private Families	1,740	6,423	4,390	12,636	12,417	17,186	1,979	641	57,412	100	..	..	..
Population in Private Fmls.	2,812	16,224	14,038	49,587	52,832	76,032	9,018	3,358	..	..	223,901	..	..
Rooms occupied	1,740	12,843	13,154	50,532	62,085	105,501	16,358	7,403	..	..	..	269,616	1.20

WARDS OF THE BOROUGH.

The following table gives the population of the fifteen wards of the Borough, the increase in each since the previous Census, the area of each ward, and the number of persons to the acre in each. The density of the population varies greatly in the different wards, the lowest being the new Cosham ward, with nearly two acres to three people, and the most densely populated is St. Mary's Ward, with 137 persons per acre. The average number of persons per acre for the whole Borough is 31.0 ; if, however, the Cosham Ward be excluded, the density of the population for the remainder of the Borough is found to be 40.0 persons per acre.

WARDS	Area in statute acres (land and inland water)	Population		Number of persons per acre 1921
		Census 1911	Census 1921	
Whole Borough ..	7.964	233,573	247,284	31.0
Buckland ..	585	21,357	26,696	42.2
Charles Dickens ..	106	12,760	12,228	115.4
Cosham ..	1,914	..	2,616	1.4
Fratton ..	86	10,645	10,759	125.1
Havelock ..	131	11,515	11,353	86.7
Highland ..	431	25,726	29,698	68.7
Kingston ..	577	18,350	21,027	36.4
Mile End ..	125	11,895	12,091	96.7
North End ..	2,235	31,909	38,587	17.3
Portsea ..	422	22,119	20,712	49.1
St. Mary ..	81	11,326	11,085	136.9
St. Paul ..	114	11,291	11,696	102.6
St. Simon ..	621	17,129	18,252	29.4
St. Thomas ..	445	16,327	13,677	30.7
Town Hall ..	91	8,792	8,807	96.8

1923.

The total civil and military population of Portsmouth for the middle of 1923 is estimated by the Registrar General to be 252,300 ; the birth-rate is based upon this figure, but the death-rates and sickness rates are all based upon the civil population, which is estimated at 230,718. The total population for 1922 was 249,700, of which the civilian population was estimated to be 236,630. It will be seen therefore that although the total population for 1923 shows an increase of 2,600, there has actually been a decrease in the civil population of 5,912, and that the increased total

population is solely due to an increase of 8,512 amongst the naval and military population.

The total number of births registered in the Borough was 5,314 ; this gives a birth-rate of 21.06 per 1,000 population, and with the exception of 1917, when the birth-rate was 20.71, is the lowest ever recorded in the Borough. Seeing that there was a reduction in the number of births, it is satisfactory to note that there were fewer deaths in infants under one year of age, in proportion to the number born, the infant mortality rate being only 52 deaths per 1000 births.

The total number of deaths registered was 2,524 ; this gives a death-rate of 10.93 per 1000 population, against 12.14 per 1000 last year, and is the lowest death-rate ever recorded in the Borough. The average death-rate for the past 10 years was 13.38. No fewer than 290 deaths were attributable to cancer, *i.e.*, nearly one death out of every 9 ; the deaths from pulmonary tuberculosis again showed a slight decrease, numbering only 191 as against 207 in the previous year, and is the lowest death-rate from this disease ever recorded in the Borough.

Under one year of age there were only 276 deaths, and under 5 years of age only 433, both of which figures are lower than have before been recorded in any one year in the Borough.

TABLE I.

Table showing the Population, Marriages, Inhabited Houses, Births and Deaths, for the year 1923, and the ten preceding years.

GROSS NUMBERS.

Year	Estimated Population	No. of Inhabited Houses	Marriages	Registered Births	Total Number of Deaths		
					Total, all ages	Under 1 year	Under 5 years
1923	230,718	51,692	1,924	5,314	2,524	276	433
1922	†236,630	51,477	2,053	5,529	2,874	349	531
1921	†233,929	51,050	2,132	5,651	2,612	355	510
1920	†233,805	50,797	2,269	6,508	2,585	389	560
1919	†224,846	49,925	2,621	5,300	2,888	377	545
1918	†230,396	49,895	2,222	4,778	3,450	356	669
1917	†198,527	49,663	1,893	4,584	2,884	324	581
1916	†197,843	49,348	2,248	5,186	2,875	417	632
1915	†202,441	49,071	2,978	4,975	3,284	433	813
1914	245,827	48,616	2,106	5,714	3,149	485	715
1913	241,256	48,280	2,025	5,989	3,044	462	786
Average 10 years 1913-22	224,550	49,811	2,754	5,421	3,053	394	633

† Civil population only.

TABLE II.

Showing Births and Deaths during the four quarters ending 29th December, 1923

QUARTER	BIRTHS.	DEATHS	Deaths of Infants under 1 year of age.	Deaths from							Rate per 1000 living.		Death-rate per 1000 living.					Death-rate per 1000 Births.			
				Enteric Fever	Measles	Scarlet Fever	Whooping Cough	Diphtheria	Influenza	Diarrhoea and Enteritis (under 2 years).	Total Births	Total Deaths (Civilians)	Measles	Scarlet Fever	Whooping Cough	Diphtheria	Influenza	Diarrhoea and Enteritis (under 2 years)	Infants under 1 year		
1st Quarter	1402	763	72	4	25	3	1	17	18	5		22.5	12.9	0.42	0.05	0.02	0.29	0.31		3.6	51
2nd Quarter	1394	561	55	4	14	1	3	11	12	3		22.4	9.5	0.24	0.02	0.05	0.19	0.20		2.2	39
3rd Quarter	1349	521	79	2	..	..	2	10	6	14		21.7	8.8	..	..	0.03	0.17	0.10		10.4	59
4th Quarter	1169	679	70	1	..	1	3	8	11	9		18.8	11.5	..	0.02	0.05	0.14	0.19		7.7	60
TOTAL ..	5314	2524	276	11	39	5	9	46	47	31		21.3	10.7	0.17	0.02	0.04	0.19	0.20		5.8	52

TABLE III.

Table showing the Annual Birth-rate, Rate of Mortality, and Death-rates among children for the year 1923, and ten preceding years.

Year	Birth-rate per 1000 of the Population	Annual Rate of Mortality living from all causes	Annual Rate of Mortality per 1000 living from 7 Principal Zymotic Diseases	Deaths of Children under 1 year : Percentage to total Deaths	Proportion of Deaths of Children under 1 year per 1000 Registered Births	Deaths of Children under 5 years : Percentage to total Deaths
†1923	21·06	10·93	0·61	10·9	52	17·1
†1922	22·11	12·14	0·61	12·1	63	18·4
†1921	22·90	11·20	0·75	13·5	63	19·5
†1920	25·90	11·10	0·59	15·0	60	21·6
†1919	22·30	12·60	0·51	13·0	71	19·0
†1918	20·96	16·96	0·94	10·3	74	19·4
†1917	20·71	14·52	0·90	11·2	70	20·1
†1916	24·09	14·53	0·96	14·5	80	21·9
†1915	24·47	16·22	1·55	13·1	87	24·5
1914	23·31	12·45	1·11	15·9	84	28·1
1913	24·44	12·23	1·15	18·0	90	25·7
Average of 10 years, 1913-22	23·11	13·38	0·90	13·6	74	21·7

† Civil population only.

TABLE IV.

Showing the Population, Birth-rates, Death-rates, Zymotic Death-rates, and Deaths under 1 year to 1000 Births, in the 20 Large Towns for the year 1923.

NAME OF TOWN	Population as estimated by Registrar General, June, 1923.	DEATH-RATES PER 1,000 LIVING.											Deaths of Children under 1 year of age to 1,000 Births	
		Per 1,000 living												Influenza
		Birth Rate	Death Rate	Small-pox	Measles	Scarlet Fever	Diphtheria	Whooping Cough	Enteric Fever	Diarrhoea & Enteritis under 2 yrs	10	11		
2	3	4	5	6	7	8	9	10	11	12				
1. CROYDON ..	193,400	17.9	10.3	..	0.05	0.01	0.11	0.06	..	0.10	0.13	52		
2. WEST HAM ..	314,400	26.2	10.6	..	0.04	0.02	0.08	0.07	0.00	0.24	0.15	58		
3. PORTSMOUTH ..	230,718	21.3	10.7	..	0.17	0.02	0.19	0.04	0.04	0.13	0.20	52		
4. BIRMINGHAM ..	946,400	20.4	10.7	..	0.19	0.04	0.15	0.05	0.00	0.23	0.27	71		
5. BRISTOL ..	385,600	19.5	11.2	..	0.09	0.05	0.13	0.20	0.01	0.14	0.13	61		
6. LONDON ..	4,564,109	20.2	11.2	0.00	0.08	0.02	0.13	0.09	0.00	0.20	0.17	60		
7. SHEFFIELD ..	524,200	19.6	11.3	..	0.02	0.02	0.03	0.24	0.01	0.23	0.52	89		
8. HULL ..	296,900	23.6	11.3	..	0.05	..	0.08	0.16	0.01	0.41	0.07	83		
9. LEICESTER ..	239,700	19.4	11.4	..	0.10	0.01	0.04	0.13	0.00	0.26	0.15	81		
10. PLYMOUTH ..	193,107	20.0	11.9	..	0.03	0.01	0.05	0.04	0.01	0.09	0.17	50		
11. CARDIFF ..	226,200	23.1	11.9	..	0.12	0.01	0.04	0.14	0.01	0.30	0.12	72		
12. NOTTINGHAM ..	269,300	20.2	12.0	..	0.10	0.04	0.04	0.12	0.01	0.24	0.09	85		
13. LEEDS ..	469,900	19.2	12.6	..	0.11	0.06	0.04	0.07	..	0.22	0.26	85		
14. NEWCASTLE ..	281,600	24.7	12.7	..	0.53	0.02	0.03	0.26	0.00	0.26	0.05	89		
15. STOKE-ON-TRENT ..	276,100	24.8	12.7	..	0.35	0.08	0.03	0.03	0.00	0.48	0.31	93		
16. BOLTON ..	182,200	17.3	12.7	..	0.02	0.03	0.05	0.06	..	0.21	0.50	86		
17. SALFORD ..	241,600	20.8	12.9	..	0.05	0.08	0.12	0.19	0.02	0.27	0.41	95		
18. MANCHESTER ..	752,100	21.2	13.1	..	0.11	0.04	0.06	0.25	0.01	0.26	0.37	85		
19. LIVERPOOL ..	837,600	24.9	13.5	..	0.43	0.05	0.10	0.19	0.00	0.44	0.13	98		
20. BRADFORD ..	290,800	18.1	13.5	..	0.22	0.02	0.06	0.07	0.01	0.10	0.40	78		

The above rates are based on the Registrar General's Returns for 1923.

TABLE V.

Deaths Registered at several groups of ages from different classes of Diseases during the 52 weeks ending 29th December, 1923.

CAUSE OF DEATH	AGES											DISTRICTS						Total		
												Portsmouth	Portsea	Landport North	Landport Central	Mid-Southsea	Southsea		Total	
	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 60	60 to 65	65 to 75	75 to 85	85 and over	51	187	752	634	643			257	2524
TOTALS	276	157	87	85	113	177	264	171	183	450	417	144	51	187	752	634	643	257	2524	
CLASS I General Diseases.																				
Enteric Fever ..	..	..	1	1	5	3	..	..	..	1	..	..	..	..	5	3	..	..	1	11
Measles ..	7	29	3	..	..	..	..	..	..	..	..	..	..	6	7	17	..	..	1	39
Scarlet Fever ..	..	2	2	..	1	..	..	..	..	..	..	..	..	..	1	2	..	..	2	5
Whooping Cough ..	4	4	1	..	..	..	..	..	..	..	..	..	..	..	4	3	..	..	1	9
Diphtheria ..	..	23	22	..	1	..	..	..	..	..	..	..	..	2	17	21	..	..	6	46
Influenza ..	4	2	2	2	6	2	2	4	5	8	7	3	..	1	18	15	10	3	..	47
Dysentery ..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Erysipelas ..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	2
Tetanus ..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1
Pulmonary Tuberculosis ..	1	2	5	41	40	34	23	14	8	7	1	..	3	14	58	41	52	..	..	176
Acute Phthisis ..	1	1	1	4	3	1	3	..	..	1	..	..	..	4	4	6	5	..	..	15
Tuberculous Meningitis ..	2	11	4	2	1	1	..	..	..	..	..	..	2	3	5	3	8	..	..	21
Tuberculosis of Peritoneum and Intestines ..	2	1	..	..	..	1	1	..	..	..	..	..	..	..	..	3	..	..	..	5
Tuberculosis of Spinal Column ..	..	..	..	1	..	..	..	..	..	1	..	..	..	..	1	..	..	..	..	1
Tuberculosis of Joints ..	..	..	2	1	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	4
Tuberculosis of other Organs ..	..	..	..	1	1	..	1	..	1	..	..	..	..	1	1	1	1	..	..	4
Disseminated Tuberculosis ..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	3
Rickets, Softening of Bones ..	..	1	1	..	..	..	1	..	..	1	..	..	..	..	1	1	..	..	..	7
Syphilis ..	4	1	..	..	..	..	1	1	4	2	3	..	..	1	2	2	7	1	..	14
Cancer of the Buccal Cavity ..	..	..	..	..	1	8	15	16	16	35	14	2	3	8	32	19	33	13	108	108
" " stomach, liver, &c ..	..	..	1	..	..	3	7	11	8	21	7	..	..	5	21	15	9	7	57	57
" " peritoneum, in- testines and rectum ..	..	..	..	..	..	3	8	7	7	7	7	..	..	2	12	12	5	5	38	38
" " female genital organs ..	..	..	..	..	2	8	7	4	3	4	3	1	2	2	7	8	5	5	25	25
" " breast ..	..	..	..	..	1	4	5	4	1	4	1	..	1	..	7	8	5	4	25	25
" " skin ..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	1	..	..	2	2

TABLE V.—Continued

CAUSE OF DEATH	AGES										DISTRICTS						Totals		
	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 60	60 to 65	65 to 75	75 to 85	85 and over	Portsmouth	Portsea	Landport North	Landport Central		Mid-Southsea	Southsea
CLASS III																			
Diseases of the Circulatory System.																			
Pericarditis ..	..	..	..	..	1	1	..	..	..	2	..	..	..	..	1	1	2	..	4
Acute Endocarditis ..	..	..	..	3	3	..	..	..	..	1	..	..	..	..	4	2	1	..	9
Organic Disease of the Heart	1	..	6	8	16	..	..	36	78	3	4	..	..	..	89	65	76	26	289
Angina Pectoris ..	..	..	..	..	..	..	..	2	3	1	..	..	..	..	1	4	2	1	8
Diseases of the Arteries,																			
Atheroma, Aneurysm																			
Embolism and Thrombosis ..	..	..	..	..	..	..	..	2	3	8	1	3	..	..	7	1	6	13	35
Diseases of the Veins ..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	..	..	13
CLASS IV.																			
Diseases of the Respiratory System.																			
Diseases of the Larynx ..	..	1	..	..	..	5	..	..	..	..	..	..	..	..	..	..	..	..	1
Bronchitis ..	13	6	3	..	..	..	..	..	14	7	12	38	32	17	37	44	46	10	147
Bronchiectasis, Bronchial	..	..	..	..	..	1	..	..	1	1	..	..	..	..	2	1	..	..	3
Catarrh ..	..	..	..	..	..	2	..	..	1	1	..	5	2	..	28	15	10	4	67
Broncho-pneumonia ..	20	32	5	6	10	2	7	13	11	2	..	13	4	..	17	19	20	3	70
Pneumonia—Lobar & undefined	6	6	1	..	1	2	2	..	2	..	..	..	..	..	5	1	1	..	7
Pleurisy ..	1	..	..	..	..	1	..	..	1	..	..	..	..	..	1	1	..	..	2
Pulmonary Congestion ..	..	..	..	..	..	..	..	..	1	2	1	2	4	..	1	7	6	1	16
Asthma ..	..	..	..	..	..	1	1	..	6	1	..	..	..	..	1	..	..	..	2
Other Diseases of the Respiratory System ..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1

TABLE V.—Continued.

CAUSE OF DEATH	AGES										DISTRICTS						Totals		
	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 60	60 to 65	65 to 75	75 to 85	85 and over	Portsmouth	Portsea	Landport North	Landport Central		Mid-Southsea	Southsea
CLASS VII.																			
The Puerperal State.																			
Accidents of Pregnancy	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Puerperal Haemorrhage	1	2	..	..	..	..	..	..	..	..	..	..	..	..	..
Other Accidents of Childbirth	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Puerperal Fever	2	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Puerperal Albuminuria and Convulsions	1	1	3	..	..	..	..	..	..	..	1	1	1	..	..	..
Puerperal Insanity	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..
CLASS VIII.																			
Diseases of the Skin and Cellular Tissue																			
Gangrene	1	..	..	..	..
Carbuncle	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Phlegmon: Acute Abscess	1	..	..	..	..	..	..	..	..	..	..
Diseases of the Integumentary System	1	..	..	..
CLASS IX.																			
Diseases of the Bones and of the Organs of Locomotion.																			
Diseases of the Bones	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	2	2	..
CLASS X.																			
Malformations.																			
Congenital Malformations	25	2	1	..	..	..	..	..	..	..	..	..	..	2	11	8	5	3	28

SUMMARY OF TABLE V.

Class	DISEASES	Number of Deaths
I.	General Diseases	741
II.	Diseases of the Nervous System and of the Organs of Special Sense	249
III.	Diseases of the Circulatory System	359
IV.	Diseases of the Respiratory System	314
V.	Diseases of the Digestive System	153
VI.	Non-venereal Diseases of the Genito-urinary System and Annexa	121
VII.	The Puerperal State	19
VIII.	Diseases of the Skin and Cellular Tissue	4
IX.	Diseases of the Bones and of the Organs of Locomotion	5
X.	Malformations	28
XI.	Diseases of Early Infancy	130
XII.	Old Age	304
XIII.	Affections produced by external causes	95
XIV.	Ill-defined Causes	2

TABLE VI.

Table showing the Numbers and Death-rates per 1,000 of Population from the Seven Principal Zymotic Diseases, from Lung Diseases (excluding Phthisis), from Phthisis, and from all causes, during each Quarter and for the whole year 1923. (Civil population only.)

Quarter ending	The Seven Principal Zymotic Diseases* All ages		Lung Diseases (excepting Phthisis)†		Phthisis		From all Causes	
	No.	Rate per 1000	No.	Rate per 1000	No.	Rate per 1000	No.	Rate per 1000
1923								
March 31st ..	55	0.95	111	1.92	51	0.88	763	13.2
June 30th ..	36	0.62	59	1.02	45	0.78	561	9.7
September 29th ..	28	0.48	43	0.74	35	0.60	521	9.0
December 29th ..	22	0.38	101	1.75	60	1.04	679	11.7
Totals ..	141	0.61	314	1.36	191	0.82	2524	10.9

* 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.

NOTIFIABLE DISEASES.

As will be seen from the following table the total number of infectious diseases notified during the year was 2,284, and of these 1,558 were admitted to hospital. The corresponding number notified in the previous year was 2,829. The decrease in this year was largely due to a reduction in the number of cases of scarlet fever, which was 709 against 1,342 in 1922. On the other hand there was an increase in cases of enteric fever from 17 to 42, of diphtheria from 605 to 693, and of cases of tuberculosis from 568 to 666. Ten cases of encephalitis lethargica were notified, as against only one in the previous year. There was a satisfactory decline in the cases of ophthalmia amongst new-born infants, infants, the number notified during the year being only 50, as compared with 149 in 1923. No case of small-pox occurred in the Borough, although I was called in to give an opinion upon several suspicious cases.

NOTIFIABLE DISEASES DURING 1923.

Disease	Cases Notified	Admitted to Hospital	Total Deaths
Diphtheria	693	669	46
Scarlet Fever	709	595	5
Enteric Fever	42	24	11
Puerperal Fever	7	1	6
Pneumonia	32	..	70
Cerebro-Spinal Meningitis	1	1	..
Acute Poliomyelitis	1	..	..
Encephalitis Lethargica	10	..	5
Erysipelas	73	1	2
Ophthalmia Neonatorum	50	..	..
Malaria .. .. .	..	..	..
Dysentery .. .. .	..	..	1
Tuberculosis : (a) Pulmonary			
M.	280	121	102
F.	244	108	89
Total	524	229	191
(b) Non-Pulmonary			
M.	73	17	18
F.	69	21	19
Total	142	38	37

DEATHS FROM NOTIFIABLE DISEASES, 1923.

DISEASE	Under 1		1-2		2-3		3-4		4-5		5-10		10-15		15-20		20-35		35-45		45-65		65 and over		Total		
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
Diphtheria ..	..	..	4	5	8	7	13	8	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	46
Scarlet Fever ..	..	..	..	1	..	1	2	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5
Enteric Fever ..	..	..	..	..	..	..	..	1	..	5	..	..	..	..	1	..	..	..	..	3	..	..	..	..	..	..	11
Puerperal Fever ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	..	..	..	..	..	6
Pneumonia ..	8	..	2	..	2	..	4	4	..	..	..	..	..	..	..	..	..	..	5	10	20	..	..	..	..	70	
Erysipelas ..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	2
Dysenter ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1
Encephalitis Lethargica ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	3	..	..	..	..	..	5
Tuberculosis— Pulmonary ..	1	1	1	..	..	..	1	2	3	1	..	1	2	3	8	9	8	40	27	27	13	29	16	5	5	102	89
* Non-pulmonary ..	2	2	3	..	2	1	2	2	3	1	2	1	2	2	1	..	3	1	..	1	2	1	2	1	1	18	19

TABLE VII.

Showing the number of Deaths in the Years 1861 to 1923,
from the Seven Principal Zymotic Diseases.

Year	Popula- tion	DISEASES							Totals	
		Small pox	Measles	Scarlet Fever	Diph- theria	Whoop'g Cough	Fever	Diarr- hoea	Num- bers	Rate per 1000 living
1861	95220	1	3	5	6	11	111	152	292	3.06
1862	96960	..	42	225	20	36	128	71	523	5.39
1863	98731	12	80	134	24	16	37	68	391	3.96
1864	100531	228	6	17	17	48	72	118	498	4.95
1865	102363	3	14	20	7	50	74	122	317	3.09
1866	104230	1	16	34	26	46	85	117	330	3.16
1867	106130	..	82	15	4	23	74	140	338	3.18
1868	108064	..	46	107	18	57	119	117	526	4.86
1869	110034	1	57	295	18	26	105	100	602	5.47
1870	112040	1	39	119	13	46	91	121	430	3.83
1871	114083	39	42	30	10	66	72	100	366	3.28
1872	114970	514	52	5	21	17	112	113	834	7.25
1873	116380	45	16	12	15	19	97	106	310	2.66
1874	117810	2	56	36	19	104	101	149	470	3.99
1875	119260	..	54	47	18	8	103	141	371	3.11
1876	120730	1	109	457	11	42	71	131	822	6.80
1877	122210	..	12	36	5	59	87	153	322	2.63
1878	123710	..	36	16	1	92	96	170	411	3.32
1879	125250	..	10	11	4	9	62	73	169	1.35
1880	126830	..	42	9	20	48	70	192	381	3.00
1881	128691	..	7	25	205	66	60	73	436	3.38
1882	131535	..	156	40	106	36	107	111	556	4.22
1883	134441	1	10	16	20	54	93	80	274	2.03
1884	137412	..	164	9	41	9	58	116	397	2.88
1885	140448	..	7	5	42	44	93	123	314	2.23
1886	143552	1	197	18	65	102	124	191	698	4.86
1887	146724	3	8	26	47	41	53	151	329	2.34
1888	149966	..	50	12	17	27	27	98	230	1.53
1889	153279	2	8	11	33	92	32	122	300	1.95
1890	156667	..	4	19	47	39	50	105	265	1.69
1891	160128	..	223	9	23	38	33	73	399	2.49
1892	163667	..	38	18	26	87	42	99	310	1.89
1893	165153	..	120	32	29	36	54	247	518	3.13
1894	167878	4	139	14	34	41	29	93	534	3.18
1895	170672	..	39	7	18	64	37	238	403	2.36
1896	173565	..	126	19	20	60	28	157	410	2.36
1897	176497	..	35	11	22	65	44	286	463	2.62
1898	179500	..	73	31	54	42	44	183	427	2.38
1899	182576	..	50	22	120	62	75	316	645	3.53
1900	185725	..	3	11	104	87	93	159	457	2.46
1901	188885	..	82	15	70	21	43	311	542	2.87
1902	193969	..	70	14	62	92	54	159	451	2.32
1903	198049	..	17	27	75	34	23	115	291	1.46
1904	202171	..	1	22	71	76	34	213	417	2.06
1905	206336	..	218	11	69	45	18	173	534	2.58
1906	210546	..	8	3	60	63	17	226	377	1.79
1907	214797	..	169	4	61	57	30	60	381	1.77
1908	219095	..	14	8	49	55	26	48	200	0.91
1909	223436	..	104	19	66	27	33	54	303	1.35
1910	227821	..	64	30	56	52	39	54	295	1.29
1911	232221	..	28	21	72	40	26	290	477	2.05
1912	236732	..	95	29	124	52	22	57	379	1.60
1913	241256	..	25	20	87	16	23	112	283	1.17
1914	245827	..	39	5	79	50	29	71	273	1.11
1915	*202141	..	123	17	68	36	18	52	314	1.55
1916	*197843	..	15	3	52	46	10	65	191	0.96
1917	*198527	..	44	7	40	36	4	48	179	0.90
1918	*203396	..	52	4	48	43	5	40	192	0.94
1919	*224846	..	14	2	42	20	..	37	115	0.51
1920	*233805	..	32	3	40	41	1	22	139	0.59
1921	*233929	..	23	13	30	21	3	87	177	0.75
1922	*236630	..	12	12	48	42	3	32	149	0.61
1923	*230718	..	39	5	46	9	11	31	141	0.61

* Civil population only.

TABLE VIII.
VACCINATION RETURNS FOR PAST TWENTY-ONE YEARS.

Year	No. of Births returned in birth sheets so registered from 1st Jan. to 31st Dec.	Successfully Vaccinated	Insusceptible to Vaccination	Had Small-pox	Dead Unvaccinated	Postponement by Medical Certificate	Removed to Districts the Vacc. Officer of which has been appraised	Removed to places to which unknown	No. of these births remaining	No. in respect of which certificates of conscientious objections have been received
1902	5192	4509	31	..	547	26	29	19	..	31
1903	5446	4831	12	..	471	23	35	24	..	50
1904	5609	4916	23	..	556	28	23	17	1	45
1905	5637	5015	15	..	477	25	35	26	..	44
1906	5891	5117	35	..	552	43	47	28	2	67
1907	5863	5069	20	..	495	40	63	25	2	149
1908	5998	5120	35	..	473	37	43	24	..	266
1909	5861	4938	46	..	430	40	33	26	2	346
1910	5809	4667	15	..	449	40	50	21	5	562
1911	5788	4376	57	..	510	41	43	42	6	713
1912	5658	4314	26	..	389	33	57	34	5	800
1913	5874	4321	35	..	409	44	48	27	12	978
1914	5749	4235	42	..	409	59	74	31	9	890
1915	4997	3785	29	..	288	47	50	18	11	769
1916	5208	3875	31	..	321	39	56	29	9	848
1917	4613	3405	13	..	256	32	54	37	6	810
1918	4810	3459	38	..	263	38	118	30	5	859
1919	5195	3752	13	..	302	26	76	38	4	984
1920	6600	4790	38	..	303	30	116	29	5	1289
1921	5662	4083	18	..	265	32	82	26	4	1152
1922	5528	4105	11	..	269	23	61	18	2	1039
1923	2795	2158	15	..	109	36	50	12	13	402

(to June)

TABLE IX.
VACCINATION RETURNS—1st January to 30th June, 1923.

Registration Sub-Districts comprised in the Vaccination Officer's District	Number of Births returned in the Birth List Sheets as registered from 1st January to 30th June, 1923	Number of these Births duly entered by 31st Jan., 1924 in Columns 1, 2, 4 and 5, of the Vaccination Register Birth List Sheets, viz.:					Number of these Births which on 31st January, 1924, remained unentered in the Vaccination Register on account (as shown by Report Book) of				Number of these Births remaining on 31st January, 1924, 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)
		Col. 1 Success- fully Vaccin- ated	Col. 2		Col. 4 Number in respect of whom Certif- icates of Con- scientious Objection have been received	Col. 5 Dead Unvac- cinated	Postpone- ment by Medical Certificate	Removal to Districts the Vaccination Officer of which has been duly apprised	Removal to places un- known, or which cannot be reached; and cases not having been found		
			Insuscep- tible of Vaccin- ation	Had Small- Pox							
1	2	3	4	5	6	7	8	9	10	11	
1. North End and Buckland ..	706	524	3	..	143	23	2	11	..	..
2. Kingston and East Southsea ..	505	380	4	..	69	25	10	11	2	4	
3. Portsea and Landport ..	718	570	2	..	80	39	9	10	3	5	
4. Portsmouth and Mid-Southsea ..	866	684	6	..	110	22	15	18	7	4	
Totals ..	2795	2158	15	..	402	109	36	50	12	13	
VACCINATION OF CHILDREN whose Births were registered in this District from Jan. 1st to Dec. 31st, 1922, inclusive.											
1. North End and Buckland ..	1554	1122	4	..	366	51	2	6	3	..	
2. Kingston and East Southsea ..	978	715	3	..	209	39	2	9	1	..	
3. Portsea and Landport ..	1388	1060	..	..	192	103	8	16	7	2
4. Portsmouth and Mid-Southsea ..	1608	1208	4	..	272	76	11	20	7	..	
Totals ..	5528	4105	11	..	1039	269	23	61	18	2	

SCARLET FEVER.—709 cases of scarlet fever were notified during the year, and of these 5 proved fatal ; 595 of the cases (or 83 per cent.) were isolated in the Milton Infectious Diseases Hospital.

TABLE X.

Showing the number of cases of SCARLET FEVER notified, the number of Deaths, and the percentage of Deaths to cases notified for the years 1884 to 1923.

Year	Cases notified	Attack-rate per 100,000 population	No. of Deaths	Percentage of 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	11	2·07
1906	383	181	3	0·80
1907	282	130	4	1·42
1908	597	272	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
1916	428	*215	3	0·70
1917	496	*249	7	1·56
1918	359	*176	4	1·11
1919	274	*121	2	0·73
1920	445	*189	3	0·67
1921	1992	*807	13	0·65
1922	1342	*566	12	0·89
1923	709	*307	5	0·70
Total (40 years)	27,725	Mean 296	575	Mean 2·07

* Calculated on estimated civil population.

TABLE XI.

Table showing the number of cases of SCARLET FEVER admitted to the MILTON HOSPITAL, the number of Deaths, and the percentage of Deaths to number of cases of Scarlet Fever admitted for the years 1884 to 1923.

Year	Cases Admitted	No. of Deaths	Percentage of Deaths to cases treated
1884	13	..	..
1885	16	..	..
1886	29	..	..
1887	56	1	1.78
1888	120	1	0.88
1889	278	1	0.36
1890	384	11	2.86
1891	180	3	1.66
1892	532	6	1.12
1893	503	6	1.19
1894	238	8	3.36
1895	177	2	1.13
1896	354	11	3.12
1897	413	9	2.17
1898	436	23	5.27
1899	333	6	1.80
1900	198	6	3.03
1901	270	6	2.20
1902	339	6	1.77
1903	572	5	0.87
1904	340	8	2.38
1905	274	4	1.44
1906	243	2	0.82
1907	202	5	2.48
1908	343	4	1.17
1909	631	14	2.20
1910	850	16	1.88
1911	635	18	2.83
1912	702	19	2.70
1913	730	14	1.91
1914	469	4	0.85
1915	630	14	2.22
1916	340	2	0.58
1917	383	5	1.30
1918	277	3	1.08
1919	250	..	..
1920	382	3	0.78
1921	1010	7	0.69
1922	996	7	0.70
1923	595	5	0.84
(Total 40 years) ..	15,723	265	Mean 1.68

DIPHTHERIA.—694 cases of Diphtheria were notified during the year, and of these 46 proved fatal ; 669 cases, or 96.5 per cent. were isolated and treated at the Milton Hospital ; amongst these the death-rate was 6.8 per cent.

TABLE XI.

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 1923.

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	633	319	75	11.84
1904	601	297	71	11.81
1905	457	221	69	15.10
1906	430	204	60	13.95
1907	423	196	61	14.89
1908	434	198	49	11.28
1909	494	221	66	13.36
1910	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	455*	68	7.36
1916	689	348*	52	7.54
1917	372	187*	40	11.94
1918	531	261*	48	9.03
1919	536	238*	42	7.83
1920	684	291*	40	5.84
1921	561	239*	30	5.34
1922	605	255*	48	7.93
1923	693	300*	46	6.63
Total (40 years)	17,474	Mean 191	2157	Mean 12.34

* Calculated on estimated civil population.

TABLE XIII.

Table showing the number of cases of DIPHTHERIA admitted to the MILTON HOSPITAL, the number of Deaths, and the percentage of Deaths to cases of Diphtheria admitted, for the years 1884 to 1923

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	4	33.33
1894	38	8	21.05
1895	46	5	10.87
1896	38	4	10.52
1897	37	3	8.11
1898	118	19	16.10
1899	225	27	11.90
1900	211	28	13.27
1901	170	24	14.11
1902	197	23	11.67
1903	211	14	6.63
1904	220	23	10.45
1905	198	24	12.12
1906	239	35	14.64
1907	235	28	11.91
1908	284	23	8.10
1909	354	40	11.30
1910	336	45	13.40
1911	436	51	11.69
1912	782	86	10.99
1913	652	58	8.89
1914	615	56	9.15
1915	684	45	6.57
1916	589	42	7.13
1917	340	34	10.00
1918	483	38	7.86
1919	520	37	7.11
1920	598	36	6.02
1921	482	29	6.01
1922	557	41	7.36
1923	669	46	6.87
Total (40 years) ..	10,813	1014	Mean 9.37

ENTERIC FEVER.—42 cases of Enteric Fever were notified during the year, and eleven deaths occurred from this disease.

TABLE XIV.

Table showing the number of cases of ENTERIC or TYPHOID FEVER notified, the number of Deaths, and the percentage of Deaths to cases notified, for the years 1884 to 1923.

Year	Cases notified	Attack-rate per 100,000 population	No. of Deaths	Percentage of Deaths to cases notified
1884	539	392	58	10·76
1885	762	542	93	11·48
1886	1249	870	124	9·90
1887	554	378	53	9·52
1888	313	208	27	8·60
1889	317	207	32	10·01
1890	457	292	50	10·94
1891	265	165	33	12·40
1892	330	203	38	11·51
1893	361	218	54	14·96
1894	201	119	25	12·44
1895	258	151	33	12·74
1896	235	135	27	11·49
1897	320	181	42	13·08
1898	305	170	43	14·10
1899	531	290	75	14·12
1900	1083	583	92	8·49
1901	324	171	43	13·27
1902	448	230	54	12·05
1903	216	109	23	10·65
1904	223	110	33	14·80
1905	165	79	18	10·91
1906	146	69	17	11·64
1907	233	108	30	13·73
1908	207	94	26	12·07
1909	274	122	33	12·04
1910	215	110	39	15·14
1911	159	68	28	17·61
1912	140	59	22	15·71
1913	126	52	23	18·25
1914	189	76	29	15·34
1915	97	47*	18	18·55
1916	78	39*	10	12·82
1917	30	15*	4	13·33
1918	32	15*	5	15·62
1919	21	9*	..	..
1920	27	11*	1	3·70
1921	33	14*	3	9·09
1922	17	7*	3	18·23
1923	42	18*	11	25·95
Total (40 years)	11,558	Mean 135	1,372	Mean 11·87

* Calculated on estimated civil population.

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 1923.

Year	Cases Admitted	No. of Deaths	Percentage of Deaths to cases treated
1884	2	..	..
1885	6	..	..
1886	66	4	6.06
1887	37	1	2.70
1888	35	..	..
1889	48	6	12.50
1890	114	5	4.38
1891	51	4	7.84
1892	81	6	7.41
1893	94	3	3.19
1894	53	3	5.66
1895	83	4	4.82
1896	76	6	7.90
1897	102	11	10.78
1898	92	14	15.22
1899	96	12	12.50
1900	157	18	11.46
1901	101	11	10.89
1902	105	13	12.38
1903	70	3	4.28
1904	73	9	12.33
1904	73	9	12.33
1905	57	7	12.28
1906	72	7	9.72
1907	109	14	12.84
1908	102	15	14.70
1909	96	14	14.58
1910	114	13	11.40
1911	70	10	14.28
1912	71	9	12.67
1913	55	10	18.18
1914	110	17	15.45
1915	33	8	24.24
1916	47	7	14.89
1917	21	1	4.76
1918	15	2	13.33
1920	12	..	..
1921	26	1	3.84
1922	14	2	14.28
1923	24	8	33.33
Total (40 years)	2 600	278	Mean 10.69

Tuberculosis.—Once again it is satisfactory to find a reduction in the number of deaths from Tuberculosis ; these numbered 191, which gives a death-rate of 0.82 per 1000 living, and is the lowest death-rate from this disease ever recorded in the Borough. The lowest figure previously recorded was 0.84 per 1000 in 1920. The gradual decline in the mortality from tuberculosis is shown in chart form on page 36. The total number of deaths from pulmonary and all other forms of tuberculosis was 228. During the year 494 cases of pulmonary, and 136 cases of non-pulmonary tuberculosis were notified ; out of the deaths registered from tuberculosis 157, or 68.8 per cent., had previously been notified.

Details of the work carried out in connection with the treatment of persons suffering from Tuberculosis will be found in the following tables. The number of patients examined at the Dispensary during the year has increased from 440 to 535, and of these 192 were found to be non-tubercular. Ninety patients were admitted during the year for treatment at Langstone Hospital, 93 to the Milton Hospital and 55 children to Beach Lodge ; 20 cases were sent to other sanatoria and hospitals ; the total number sent to all residential institutions for treatment was 258.

We are again much indebted to Sir Henry Gauvain, who has periodically visited the Dispensary and assisted us with his very valuable advice in regard to tuberculous children.

The duties in connection with the treatment of tuberculosis have been successfully carried out by Dr. Rowan Revell. Dr. Revell attends daily at the Dispensary, and is also Medical Officer to the Langstone Hospital. This latter institution, which has proved very useful in the past, could with great advantage be further extended.

TABLE XVI.

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

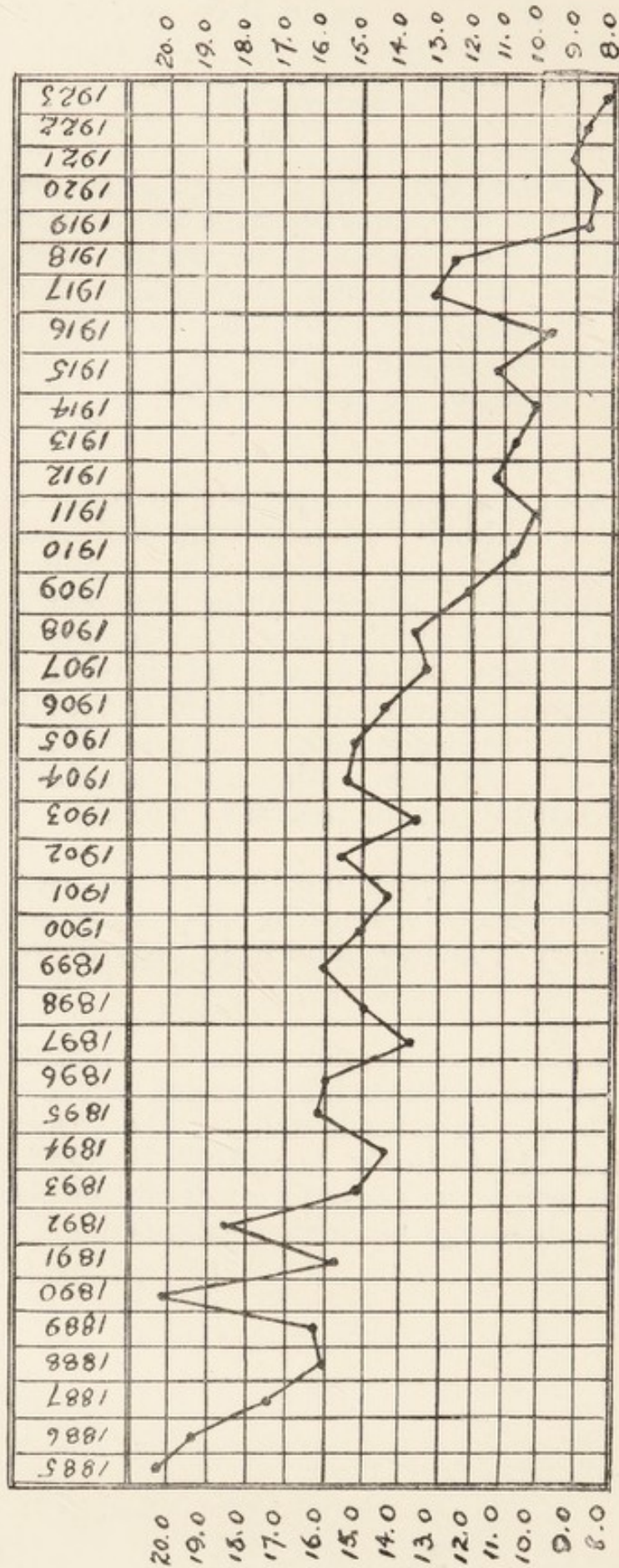


TABLE XVII.

Table showing the number of Deaths and Death-rates per 1000 living from TUBERCULAR DISEASES for Forty-five Years (1879 to 1923).

Year	(1) Pulmonary Tuberculosis		(2) Tubercular Meningitis, Hydrocephalus Deaths	(3) Other Forms of Tuberculosis Deaths	Totals of Cols. 2 and 3	
	Deaths	Rate			Deaths	Rate
1879	271	2.05	44	58	102	.77
1880	234	1.74	49	81	130	.96
1881	275	2.14	44	61	105	.81
1882	269	2.07	33	67	100	.76
1883	262	1.96	41	72	113	.84
1884	292	2.12	34	62	96	.69
1885	290	2.06	36	54	90	.64
1886	285	1.98	38	85	123	.86
1887	261	1.77	41	95	136	.92
1888	240	1.60	38	90	128	.85
1889	251	1.63	35	93	128	.83
1890	319	2.03	37	57	94	.60
1891	252	1.57	41	86	127	.79
1892	308	1.89	31	51	82	.50
1893	254	1.53	32	59	91	.55
1894	241	1.43	21	50	71	.42
1895	280	1.64	43	50	93	.54
1896	283	1.63	51	55	106	.61
1897	245	1.38	39	33	72	.39
1898	277	1.54	37	57	94	.52
1899	295	1.61	40	64	104	.57
1900	286	1.53	42	53	95	.51
1901	278	1.47	37	91	128	.67
1902	308	1.58	31	51	82	.42
1903	269	1.35	35	34	69	.34
1904	321	1.58	44	32	76	.37
1905	314	1.52	42	25	67	.32
1906	306	1.45	38	36	74	.35
1907	282	1.31	47	36	83	.38
1908	300	1.36	39	38	77	.35
1909	272	1.21	41	33	74	.33
1910	249	1.09	40	23	63	.28
1911	239	1.02	36	23	59	.25
1912	267	1.13	30	46	76	.32
1913	264	1.08	41	40	81	.33
1914	249	1.01	33	52	85	.34
*1915	233	1.15	51	69	120	.59
*1916	188	0.95	39	48	87	.43
*1917	269	1.35	38	62	100	.50
*1918	261	1.28	23	45	68	.33
*1919	197	0.88	25	37	62	.27
*1920	197	0.84	19	36	55	.23
*1921	211	0.90	22	26	48	.20
*1922	207	0.87	17	38	55	.23
*1923	191	0.82	21	16	37	.16

* Calculated on estimated civil population.

TABLE A.
PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1912.

Summary of Notifications during the period from 31st December, 1922, to the 29th December, 1923.

	Number of Notifications on Form A.														Number of Notifications on Form B.				No. of Notifications on Form C.		
	Primary Notifications.														Primary Notifications				Total Notifications on Form B	Poor Law Institutions	Sana- toria
	0 to 1	1 to 5	5 to 10	10 to 15	15 to 20	20 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to and upw.	Total Primary Notifitns	under 5	5 to 10	10 to 15	Total					
Pulmonary :																					
Males ..	1	1	6	12	16	22	42	39	28	16	5	188	244	..	..	..	5	84
Females ..	..	1	7	13	25	39	52	34	12	13	2	198	250	..	..	..	..	77
Non-Pulmonary :																					
Males ..	2	7	19	6	5	7	4	3	1	..	1	56	68	..	..	..	..	15
Females ..	1	7	9	10	6	6	1	5	2	2	2	51	58	..	..	..	..	12

TABLE B.

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

	Tubercular	Not Tubercular	Pre-Tubercular	Diagnosis Incomplete	Observation	Total
Adults ..	219	80	..	1	9	309
Children ..	63	112	50	1	..	226
TOTAL ..	282	192	50	2	9	535

TABLE C.

Table of Occupations of Adult Patients found to be Tubercular.

Invalided H.M. Service	..	..	..	..	..	..	34
Housewives	..	..	..	..	..	..	64
Domestic Servants	..	..	..	..	..	..	20
Clerks and Shop Assistants	..	..	..	..	..	..	27
Skilled Artisans and Factory Workers	..	..	..	..	..	..	39
Labourers	..	..	..	..	..	..	9
Police	..	..	..	..	..	..	1
Trams	..	..	..	..	..	..	1
Dressmakers	..	..	..	..	..	..	2
Teachers	..	..	..	..	..	..	4
G.P.O.	..	..	..	..	..	..	1
Agents	..	..	..	..	..	..	4
Nurses	..	..	..	..	..	..	2
Merchant Service	..	..	..	..	..	..	4
Amusements	..	..	..	..	..	..	3
Nil	..	..	..	..	..	..	4
							219

TABLE D.

Showing particulars of 282 Patients found to be Tubercular.

Age and Sex Table—ADULTS.

	16-19	20-29	30-39	40-49	50-59	60 & Over	Total
Male ..	10	43	28	17	9	2	109
Female ..	16	45	34	6	7	2	110

Age and Sex Table—CHILDREN.

	0-4	5-6	7-8	9-10	11-12	12-15	Total
Male ..	2	6	7	5	6	3	29
Female ..	7	6	4	1	5	11	34

TABLE E.

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

	Acute Miliary	Pulmonary	Pulmonary and Other Organs	Pleurisy	Non-Pulmonary	Total
Adults	1	182	11	5	20	219
Children	..	23	..	1	39	63
TOTALS	1	205	11	6	59	282

TABLE F.

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

	Adults	Children	Total
Joint and Bone ..	12	21	33
Genito-urinary ..	3	..	3
Glands	2	14	16
Peritoneum .. ..	..	4	4
Eyes	3	..	3
	20	39	59

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
Adults	66	41	85	192
Children	29	27	50	106

TABLE H.

LANGSTONE HOSPITAL

	Males	Females	Children		Totals
			M.	F.	
In Langstone Dec. 31st, 1922 ..	10	7	4	6	27
Admitted during 1923	50	39	30	26	145
TOTALS	60	46	34	32	172
Discharged during 1923 ..	51	41	29	27	148
In Langstone Dec. 31st, 1923	9	5	5	5	24

TABLE I.

Total Number of Patients treated at various Sanatoria, Hospitals, and Colonies during 1923.

Sanatorium, Hospital or Colony	Resident at beginning of year	Admitted during year	Discharged during year	Remaining end of year	Totals
Langstone Hospital	17	90	93	14	107
Beach Lodge (Children)	10	55	55	10	65
Milton Hospital	25	93	92	26	118
Royal National Sanatorium, Bournemouth .. .. .	..	1	1	..	1
Royal National Hospital for Con- sumption, Ventnor	2	..	2	..	2
Margate Sea Bathing Hospital	1	1	1	1	2
Preston Hall Training Colony	6	4	6	4	10
Fairlight Sanatorium	3	3	4	2	6
Lord Mayor Treloar Cripples' Hos'l. .	7	9	3	13	16
Royal Portsmouth Hospital .. ..	..	2	2	..	2
Brighton Borough Sanatorium	2	..	1	1	2
Nayland	2	..	2	..	2
Lenham	1	..	1	..	1
Frimley	2	1	3	..	3
Hermitage Sanatorium .. .. .	..	1	1	..	1
St. Catherine's Home, Ventnor	2	1	2	1	3
Shedfield Convalescent Home .. ..	..	6	6	..	6
	80	267	275	72	347

TABLE XVIII.

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

Week ending		Small-pox	Scarlet Fever	Diphtheria	Enteric Fever	Puerperal Fever	Erysipelas	Cerebro Spinal Meningitis	Acute Poliomyelitis	Ophthalmia Neonatorum	Pneumonia	Dysentery	Encephalitis Lethargica	Malaria	Total
1923															
Jan.	6	..	19	13	..	..	1	..	..	1	1	..	..	..	35
"	13	..	24	7	..	..	2	..	..	1	1	..	..	..	35
"	20	..	28	10	..	1	3	..	..	2	..	..	..	..	44
"	27	..	22	9	3	1	..	..	..	1	1	..	..	..	37
Feb.	3	..	22	15	2	..	1	..	..	..	3	..	..	..	43
"	10	..	26	22	1	..	4	..	..	2	1	..	..	..	56
"	17	..	17	13	1	..	4	..	1	1	..	..	..	..	37
"	24	..	14	20	..	1	1	1	..	1	..	..	1	..	39
Mar.	3	..	16	25	1	..	2	..	..	..	..	..	..	..	44
"	10	..	18	16	..	..	1	..	..	1	..	..	..	..	36
"	17	..	17	14	..	..	..	..	..	1	..	..	1	..	33
"	24	..	17	17	1	1	1	..	..	2	3	..	..	..	42
"	31	..	10	12	..	..	1	..	..	..	1	..	..	..	24
April	7	..	18	20	..	..	4	..	..	2	..	..	..	..	44
"	14	..	8	15	..	..	..	..	..	1	3	..	1	..	28
"	21	..	12	11	1	..	..	..	..	..	1	..	..	..	25
"	28	..	14	8	..	..	1	..	..	1	..	..	..	..	24
May	5	..	3	13	2	..	1	..	..	..	1	..	..	..	20
"	12	..	10	17	1	..	3	..	..	2	2	..	..	..	35
"	19	..	14	12	1	..	1	..	..	2	1	..	..	..	31
"	26	..	14	6	..	..	2	..	..	1	..	..	1	..	24
June	2	..	9	9	1	..	2	..	..	..	2	..	..	..	23
"	9	..	13	13	1	1	..	..	..	..	..	..	..	..	28
"	16	..	7	20	..	..	..	..	..	1	..	..	1	..	29
"	23	..	15	13	2	..	2	..	..	..	3	..	..	..	35
"	30	..	8	6	2	1	1	..	..	3	..	..	1	..	22
July	7	..	9	20	2	..	1	..	..	..	..	..	..	..	32
"	14	..	7	8	2	..	..	..	..	..	..	..	..	..	17
"	21	..	11	11	1	..	..	..	..	1	..	..	..	..	24
"	28	..	9	5	..	..	2	..	..	1	..	..	1	..	18
Aug.	4	..	14	14	1	..	..	..	..	..	..	..	..	..	29
"	11	..	9	13	3	..	..	..	..	1	1	..	..	..	27
"	18	..	9	1	..	..	2	..	..	1	2	..	..	..	15
"	25	..	3	7	..	..	3	..	..	1	..	..	..	..	14
Sept.	1	..	9	17	1	..	..	..	..	..	..	..	..	..	27
"	8	..	8	10	..	..	1	..	..	1	..	..	1	..	21
"	15	..	10	15	..	..	2	..	..	1	..	..	..	..	28
"	22	..	9	33	..	..	..	..	..	..	..	..	..	..	42
"	29	..	12	9	1	..	..	..	..	1	..	..	..	..	23
Oct.	6	..	18	11	3	1	1	..	..	..	..	..	1	..	35
"	13	..	15	8	1	..	3	..	..	1	..	..	..	..	28
"	20	..	20	11	2	..	2	..	..	1	..	..	..	..	36
"	27	..	16	13	1	..	..	..	..	..	..	..	..	..	30
Nov.	3	..	28	14	..	..	..	..	..	..	1	..	..	..	43
"	10	..	9	14	1	..	1	..	..	2	..	..	..	..	27
"	17	..	14	11	1	..	3	..	..	1	1	..	1	..	32
"	24	..	15	14	..	..	3	..	..	3	..	..	..	..	35
Dec.	1	..	14	21	1	..	3	..	..	..	1	..	..	..	41
"	8	..	11	16	1	..	3	..	..	3	..	..	..	..	24
"	15	..	9	10	..	..	2	..	..	2	2	..	..	..	25
"	22	..	15	20	..	..	3	..	..	2	..	..	..	..	40
"	29	..	11	11	..	..	..	..	..	..	..	..	..	..	22
TOTALS	..	..	709	693	42	7	73	1	1	50	32	..	10	..	1618

Venereal Diseases.—During the year the number of new patients who attended at the V.D. Clinic at the Royal Hospital was 758 ; of these 507 were males and 251 females ; 311 of this total were suffering from some other disease and not venereal. Excluding the number of "late" cases of disease (which attended for purposes of a Wassermann test, or for other reasons), and cases of congenital syphilis, the number of new cases was 373, of which 280 were males and 93 females. The following table shows the increase or decrease in the number of new cases of venereal disease in each year from the opening of the Treatment Centre in 1917 :

Year	Patients suffering from Venereal Disease.		Total	Percentage Increase (+) or Decrease(—) on previous year.
	Males	Females		
1917 ..	193	110	303	...
1918 ..	219	141	360	+ 10.9
1919 ..	414	142	556	+ 54.4
1920 ..	428	143	571	+ 2.7
1921 ..	291	92	383	— 32.9
1922 ..	234	93	327	— 14.6
1923 ..	280	93	373	+ 14.0

No special propaganda work for the prevention of venereal disease has been carried out during the past year. The leaflets giving instruction in the methods of immediate self-disinfection have been obtainable at the Health Department and the notices on the subject have been exhibited in the public urinals.

The Treatment Centre at the Royal Hospital has, as usual, been efficiently administered by Dr. A. Cambell. In connection with the efforts which have been made in the past to induce men who have exposed themselves to the risk of infection, to adopt measures of immediate self-disinfection, Dr. Cambell supplies me with the following particulars in regard to men patients whom he has questioned. Altogether 97 men were questioned, and of these only 16 adopted any form of self-disinfection within ten minutes of exposure ; 19 practised some form of self-disinfection within one to three hours, and 14 at some later period still. It must be borne in mind that we have no information whatever as to men who, having exposed themselves to the risk of infection, practised immediate self-disinfection and subsequently escaped disease.

The following table gives the details of the very valuable work which has been carried out at the Treatment Centre :—

44 RETURN RELATING TO ALL PERSONS WHO WERE TREATED AT THE TREATMENT CENTRE DURING THE YEAR ENDED 31st DECEMBER, 1923.

	Syphilis		Soft Chancre		Gonorrhoea		Conditions other than Venereal		TOTAL	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1. Number of persons who, on 1st January, 1923, were under treatment or observation	151	117	4	..	97	22	20	5	272	144
2. Number dealt with during the year for the first time and found to be suffering from :—										
Syphilis only	139	91	..	..	..	..	..	..	139	91
Soft Chancre only .. .. .	..	..	6	..	..	..	..	..	6	..
Gonorrhoea only .. .. .	..	..	..	..	154	31	..	..	154	31
Syphilis and Soft Chancre ..	1	..	1	..	..	..	..	..	2	..
Syphilis and Gonorrhoea ..	8	4	..	..	8	4	..	..	16	8
Gonorrhoea & Soft Chancre ..	..	..	..	..	..	..	..	..	..	..
Syphilis, Soft Chancre and Gonorrhoea .. .. .	..	..	..	..	..	..	..	..	..	..
Conditions other than Venereal .. .. .	..	..	..	..	..	..	190	121	190	121
TOTAL—Item 2	148	95	7	..	162	35	190	121	507	251
TOTAL—Items 1 and 2	299	212	11	..	259	57	210	126	779	395
3. Number of persons who ceased to attend :—										
(a) before completing the first course of treatment for	19	16	1	..	33	7	..	..	53	23
(b) after one or more courses but before completion of treatment for ..	24	22	..	..	..	..	..	..	24	22
(c) after completion of treatment, but before final tests as to cure of ..	14	25	1	..	29	4	..	..	44	29
4. Number of persons transferred to other Treatment Centres after treatment for	13	6	..	..	22	3	..	..	35	9
5. Number of persons discharged after completion of treatment and observation for	69	37	6	..	69	22	..	..	144	59
6. Number of persons who, on the 1st January, 1924, were under treatment or observation for	160	106	3	..	106	21	16	10	285	137
TOTAL—Items 3, 4, 5, and 6 ..	299	212	11	..	259	57	16	10	585	279
7. Out-patient attendances :—										
(a) For individual attention by the Medical Officer	1773	1445	39	..	1592	311	621	318	4025	2074
(b) For intermediate treatment, e.g., irrigation, dressings, etc.	774	209	257	..	6716	1087	785	365	8502	1661
TOTAL	2517	1654	296	..	8308	1398	1406	683	12527	3735
8. Aggregate number of " In-patient days " of treatment given to persons who were suffering from ..	62	27	..	..	42	139	..	8	104	174

Examinations of Pathological material	For detection of			For Wassermann Reaction
	Spirochetes	Conococci	Other Organisms	
(a) Specimens which were examined at, and by the Medical Officer of, the Treatment Centre	15	6	..	..
(b) Specimens from persons attending at the Treatment Centre which were sent for examination to an approved laboratory .. .. .	..	1266	115	1199

Statement showing the services rendered at the Treatment Centre during the year, classified according to the areas in which the patients resided.

Name of County or County Borough (or Country in the case of persons residing elsewhere than in England and Wales) to be inserted in these headings.	Portsmouth	Hampshire	West Sussex	Isle of Wight	London	Margate, Kent	Ilford, Essex	Brighton	Nottingham	Rosyth	Southend-on-Sea	TOTAL
Number of persons from each area dealt with during the year for the first time and found to be suffering from:—												
Syphilis	202	30	8	1	2	..	..	..	..	..	..	243
Soft Chancre	6	..	..	..	1	..	..	..	..	..	..	7
Gonorrhoea	158	22	10	..	4	..	1	1	1	..	..	197
Conditions other than Venereal ..	259	36	9	2	2	1	1	..	..	1	..	311
TOTAL ..	625	88	27	3	9	1	1	1	1	1	1	758

Total number of attendances of all patients residing in each area	14475	1337	292	5	96	1	2	46	6	1	1	16262
Aggregate number of " In-patient days " of all patients residing in each area ..	204	42	32	..	..	..	..	..	..	..	..	278
Number of doses of arsenobenzol compounds given in the:— to patients residing in each area.	1365	201	105	2	..	..	..	..	..	..	..	1673

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

Neo-Salvarsan : 0.3 and 0.6 gm.

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

(A description of the methods of treatment given to the various types of cases of Syphilis is too lengthy to be inserted in this report.—A.M.F.)

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

GONORRHOEA.—Tests of Cure :

Absence of discharge, or in cases of gleet persisting after long treatment, failure on repeated microscopical examinations to demonstrate the gonococcus. Urethroscopic examination. Palpation of urethra on dilator. Palpation of prostate and seminal vesicles. Microscopical examinations of resulting fluid for gonococcus, etc. Culture tests.

SYPHILIS.

Primary—Negative Wassermann for 2 years.

Secondary—Negative Wassermann for 2 years after cessation of arsenical treatment.

CANCER.—A disquieting feature in connection with the death returns, not only of this town, but of the whole country, is the yearly increase in the number of deaths from cancer. Last year 290 deaths were registered in the Borough as due to cancer, which means that out of all deaths at all ages, about one out of every nine was due to cancer. Cancer attacks, as a rule, from middle age onward, and among those who died in the Borough from the age of 45 upwards, one in six died from this disease.

Much scientific research work and many investigations in all parts of the world are now being carried out in the hope of discovering the cause of cancer ; up to the present these efforts have not proved successful. In view of the great advances which have been made in medical science in other directions, it is reasonable to believe that it is only a matter of time until success is attained. Until, however, the conditions which cause cancer have been definitely established, it is not possible for health authorities to institute adequate measures for the prevention of the disease. At the same time, although local authorities are unable to put into operation measures to prevent the incidence of cancer, there are certain steps which can be taken to reduce the number of deaths from cancer. And I would like to suggest the advisability of a renewal of the campaign which, on the initiative of Mr. Childe, F.R.C.S., was started in this Borough at the end of 1913, but which was not persisted in after 1914, on account of the disturbance caused by the Great War. The campaign then commenced was of an educative nature, and its object, by means of lectures, leaflets, and printed notices in the local press, was to get the public to realise : (1) that now-a-days cancer is not necessarily a sentence of death, that there is considerable and indisputable evidence that in numerous cases of undoubted cancer the disease has been entirely removed by surgical operation ; (2) that the only method which holds out reasonable hope of success is that of surgical operation ; and (3) that in order for surgical treatment to prove successful it is essential to undergo operation in the early stages of the disease.

To assist in the practical effect of the above there was also issued a short statement, giving the early signs and symptoms which are suspicious of the onset of cancer, and the occurrence of which should be a warning to consult a medical man without loss of time.

One of the forms of cancer in which the early sign (*viz.*, a lump in the breast) is frequently disregarded

is that of cancer of the breast. It is also a form of cancer in which very successful results have been obtained when operation has taken place in the early stage. Last year in this town 26 women died from cancer of the breast, yet from enquiries which have been made it is found that in only nine of these cases was there an operation, and, further, there was an interval between the date of operation and the time when the growth was first noticed of from three months up to four years. In the light of the results which are obtained by modern surgeons there can be no reasonable ground for doubt that had surgical treatment been undergone as soon as the patients noticed the first signs of the disease, some, at least, of the above lives would have been saved.

What applies to cancer of the breast applies with equal force to cancer in those other parts of the body where it is possible for it to be removed. Everything points to the fact that many deaths occur annually from cancer which might have been avoided had surgical treatment been applied as soon as the first signs of the disease made their appearance. I believe, therefore, that if active propaganda work of an educative character were carried out, it would certainly result in life saving. Personally, I do not attach much weight to the objection which has been raised to this procedure that it would frighten people unnecessarily and cause cancerphobia. Most people will admit that propaganda work has been of benefit in regard to tuberculosis, and that there have been no ill effects from the publicity given to the campaign against it. Cancer has now displaced tuberculosis as a death-causing disease, and it has become important that the attention of the public should be directed to the methods of treatment which medical science has shown to be capable of reducing the mortality from this disease.

MATERNITY AND CHILD WELFARE.—This year the unprecedented low infantile mortality rate of 52 deaths under one year of age per 1000 births has been reached. Twenty years ago there were 142 deaths under one year of age per 1000 births. These figures need no comment to indicate the vast improvement which has been effected in the preservation of infant life. It may, however, be pointed out that the infantile mortality rate for Portsmouth is 17 per 1000 lower than that for the whole country.

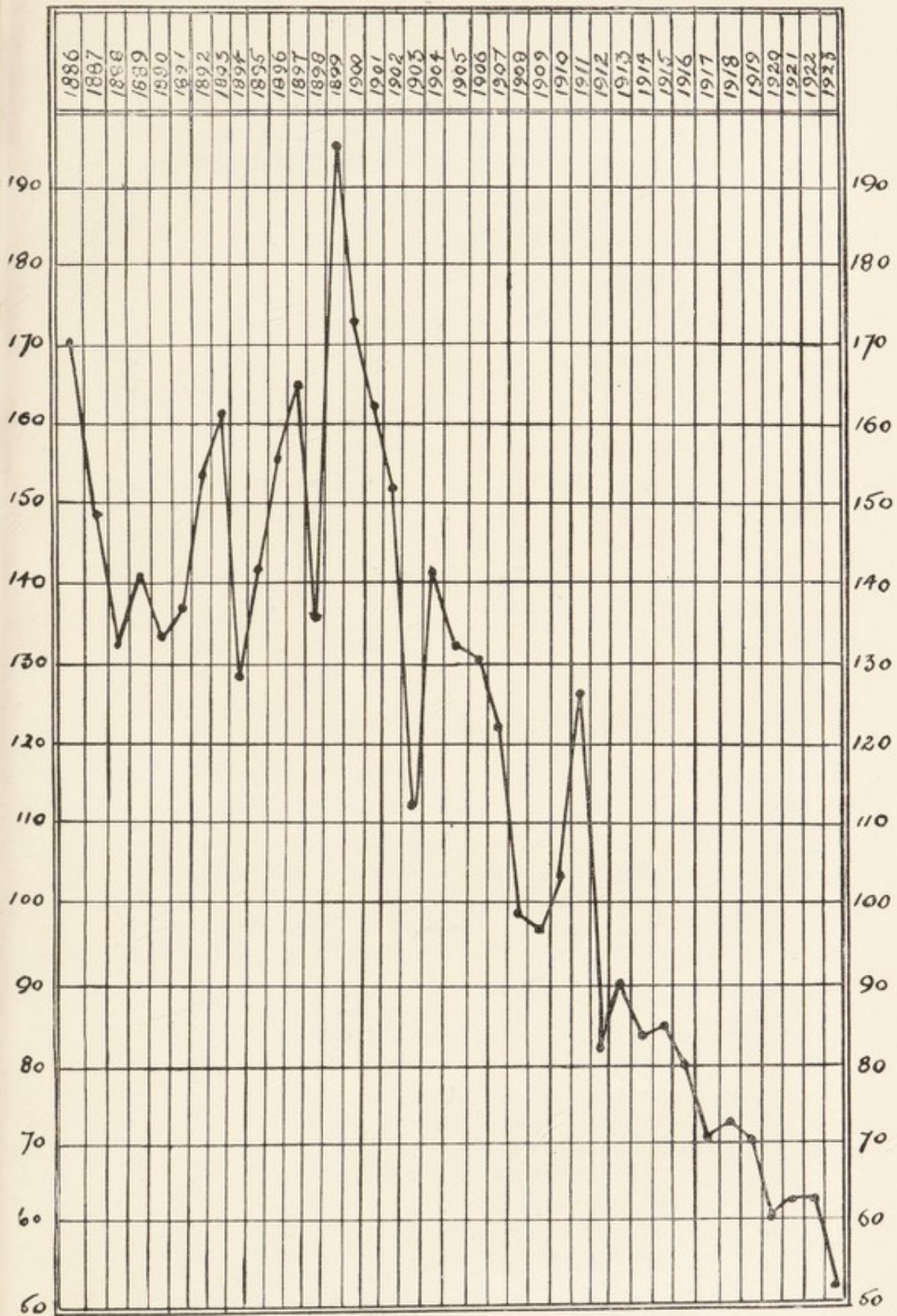
Altogether there were 5,314 births and 276 deaths of infants under one year of age. 261 births were illegitimate, and amongst these there were 25 deaths, giving an infantile mor-

tality rate of 95 deaths per 1000 births. Only 4,079 births out of the total of 5,314 were notified, as required by the Notification of Births Act, 1907, within 36 hours of birth.

The number of Midwives practising in the Borough was 83; only eight of these were untrained. The number of confinements attended by midwives was 3,276, or 61.6 per cent. of the whole.

The number of visits paid by Health Visitors numbered 10,784; of these 4,137 were first visits to infants under one year of age, 2,727 were to children from one to five years of age, and 61 were to expectant mothers. 120 visits of inspection were paid to midwives. Very satisfactory work was carried out at the Child Welfare Centres, under Dr. Kelson Ford, the Maternity and Child Welfare Medical Officer. The number of attendances at all the Centres numbered 17,942, and the total number of new cases was 1,836. The average attendance per session at the various centres was as follows: Fratton Road Centre (2 sessions per week) 90; St. Patrick's Hall, Eastney (1 session) 58; St. George's, Portsea (1 session) 63; Winchester College Mission, Rudmore (1 session) 38. The value of the dried milk, etc., issued to necessitous cases was £1,691.

Chart showing number of Deaths under 1 year of age to 1000 Births in Portsmouth, 1886-1923.



MUNICIPAL MATERNITY HOSPITAL.—There were 251 admissions to the Municipal Maternity Hospital. This is a larger number than in any previous year, the previous highest number being 236 in 1920.

A summary of the year's work is given in the following return, which is prepared for the Ministry of Health :—

**ANNUAL STATISTICS FOR THE YEAR ENDING
31st DECEMBER, 1923.**

1.	Total number of Cases admitted	..	..	..	251
2.	Average duration of stay	..	..	..	14 days
3.	Number of Cases delivered by—				
	(a) Midwives	..	..	..	241
	(b) Doctors	..	..	..	10
4.	Number of cases in which medical assistance was sought by the Midwife—				
	(a) Ante-natal	..	12	(c) After Labour	15
	(b) During Labour	..	17	(d) For Infant	9
				Total	53
5.	Number of cases notified as puerperal sepsis with result of treatment in each case	..	..	..	Nil
6.	Number of cases in which the temperature rose above 100.4 for 24 hours with rise of pulse rate	..	..	..	3
7.	Number of cases notified as ophthalmia neonatorum with result of treatment	..	..	..	2 (Both improved on discharge)
8.	Number of cases of "inflammation of the eyes," however slight	..	..	..	3
9.	Number of infants not entirely breast-fed, with reasons why they were not breast-fed— Lack of Milk, 6 cases ; Condition of Mother, 4 cases Retracted Nipples, 2 ; Double Cleft Palate 1				—Total 13
10.	Number of maternal deaths with cases	..	..	..	Nil
11.	Number of foetal deaths (stillborn or within 10 days of birth and other causes)—				
	Stillborn : Macerated Foetus	..	..	..	3
	Torn Tentorium	..	..	..	2
	Prolapsed Cord	..	..	..	1
	Ante-Partum Haemorrhage	..	..	..	1
	Within 10 days of birth—				
	Premature Births	..	..	..	4
	Congenital Syphilis	..	..	..	1
	Torn Tentorium and Intra-Cranial Haemorrhage	..	..	..	1
				—	Total 13

TABLE XIX.

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

Week ending 1923		Temperature		Earth Therm.		Rain in inches	Deaths from Diarrhoea
		Max.	Min.	1 ft.	4 ft.		
July	21st	72.5	58.4	68.3	62.0	0.04	2
"	28th	69.4	57.8	68.1	63.0	0.21	..
August	4th	68.3	56.8	64.5	62.4	0.36	..
"	11th	74.1	57.2	67.1	62.1	..	..
"	18th	71.1	58.2	67.8	63.5	0.18	..
"	25th	66.8	56.1	62.9	63.0	0.93	2
Sept.	1st	64.1	52.8	60.0	61.7	0.79	2
"	8th	66.2	48.5	58.6	60.3	0.09	1
"	15th	67.7	53.0	60.7	60.0	0.51	3
"	22nd	60.8	48.7	56.9	59.7	1.21	3
"	29th	64.8	52.2	57.1	58.5	0.31	2
Oct.	6th	59.7	47.7	57.1	58.7	0.63	2
"	13th	59.1	51.8	56.3	57.5	1.89	..
"	20th	58.2	44.8	52.3	56.2	0.96	..
"	27th	57.4	49.5	53.0	55.2	2.07	..

BACTERIOLOGY.

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

DISEASE	RESULT		TOTAL
	Positive	Negative	
Diphtheria	403	1226	1629
Tuberculosis	128	404	532
Enteric Fever	5	14	19
Other Diseases .. ..	..	2	2
TOTAL ..	536	1646	2182

ROLL OF MIDWIVES PRACTISING WITHIN THE BOROUGH OF PORTSMOUTH.

SURNAME.	CHRISTIAN NAME.	ADDRESS.	No. of Cert.	Date of Certificate.	DATE OF NOTICE 1923
1. Ainsley	Clarissa Mary	23 Outram Road	51397	14th Aug., '20	1st January
2. Allcock	Maud Phoebe	108 Wymering Road	55146	11th October, '21	"
3. Ansell	Nellie	83 Westfield Road	30550	10th May, '10	"
4. Barnes	Eliza	109 Church Road	23295	26th April, '06	6th January
5. Barnes	Elizabeth	"	27020	14th Oct., '08	"
6. Blake	Ellen M.	85 Frensham Road	27693	16th Dec., '08	1st January
7. Bragg	Sarah	118 St. Augustine Road	42180	1st May, '15	7th January
8. Brassfield	Frances Mary	12 Conway Street	47125	11th May, '18	1st January
9. Brockett	Ellen	23 Outram Road	45584	17th May, '17	2nd January
10. Broughton	Emily Jane	10 Curzon Howe Road	40242	22nd June, '14	1st January
11. Burgess	Alice Jessie	29 Festing Road	13412	23rd Feb., '05	"
12. Calvert	Fanny Jane	70 Sutherland Road	50796	12th May, '20	"
13. Carpenter	Laura	88 Ernest Road	47142	11th May, '18	2nd January
14. Challis	Patty Jane	37 Aylesbury Road	4208	28th April, '04	"
15. Clower	Mabel	Naval Maternity Hospital	57292	10th June, '22	3rd April
16. Cross	Florence Louisa	Cosham Park House	9752	24th May, '04	23rd January
17. Denham	Gertrude E.	14 Lowcay Road	52297	11th Nov., '20	10th January
18. Dowse	Mabel Coles	23 Power Road	28319	7th April, '09	1st January
19. Elliott	Mary Ann Leah	128 Prince Albert Road	5487	30th June, '04	6th January
20. Fardell	Marion	454 Commercial Road	8755	27th Oct., '04	2nd January
21. Farr	Mary	6 Longs Road	52338	10th Nov., '20	1st January
22. Field	Ethel Fanny	126 Devonshire Avenue	54222	11th June, '21	5th January
23. Flynn	Ida	5 Addison Road	19308	27th April, '05	8th January
24. Foley	Louisa	454 Commercial Road	37918	28th April, '13	2nd January
25. Foot	Alice Maud	21 Essex Road	54229	11th June, '21	11th January
26. French	Louisa	20 Church Path North	47980	19th Nov., '18	27th January
27. Ginn	Elizabeth	26 Besant Road	8211	29th Sept., '04	3rd January
28. Giovanni	Florence Lucy	94 St. Andrew's Road	53106	8th Feb., '21	1st January
29. Goodman	Lucy Ann	100 London Road	26437	21st May, '08	3rd January
30. Gray	Eliza Ann	35 Herbert Street	11585	26th Jan., '08	"
31. Haines,	Nora	5 St. Andrew's Road	35694	2nd May, '12	19th February

32.	Hayes	..	Annie	..	105 Toronto Road	..	15559	23rd Mar., '05	3rd January
33.	Heard	..	Mabel Vesper	..	28 Victoria Road North	..	34559	28th Oct., '11	16th July
34.	Hebington	..	Eliza	..	31 Curzon Howe Road	..	50981	12th May, '20	1st January
35.	Hodge	..	Ada	..	73 King Street, Southsea	..	50992	12th May, '20	"
36.	Hulland	..	Emma Jane	..	32 Highland Road	..	58896	13th Dec., '22	29th August
37.	Humphrey	..	Eliza	..	42 Simpson Road	..	9290	27th Oct., '04	4th January
38.	Hunt	..	Mary Jane	..	52 Nightingale Road	..	57925	1st August, '22	3rd February
39.	Jago	..	Clara Sara	..	28 Victoria Road North	..	23268	22nd Feb., '06	7th January
40.	Kean	..	Lucy Rowe	..	133 Eastfield Road	..	31908	30th Sept., '10	"
41.	Kennick	..	Bertha	..	14 St. Peter's Grove	..	58451	14th Oct., '22	14th February
42.	Langstreeth	..	Maria	..	23 Gold Street	..	14211	23rd Feb., '05	1st January
43.	Lee	..	Ethel Eliza	..	42 Chichester Road	..	60963	11th Aug., '23	23rd October
44.	Lewis	..	Annie	..	Naval Maternity Hospital	..	57466	10th June, '22	1st January
45.	Littlewood	..	Mary	..	5 St. Andrew's Road	..	59466	13th Dec., '22	2nd March
46.	Lloyd	..	Martha	..	Naval Maternity Hospital	..	54356	11th June, '21	28th August
47.	Longcroft	..	Kate	..	46 Gains Road	..	50759	12th May, '12	1st January
48.	Lovett	..	Ellen	..	14 Shearer Road	..	48431	10th Feb., '19	"
49.	Malyon	..	Marion	..	200 Stamshaw Road	..	46160	11th Aug., '17	"
50.	Martin	..	Elizabeth Amy	..	80 Portchester Road	..	56977	16th April, '22	"
51.	Matthews	..	Elizabeth	..	21 Salisbury Road	..	55477	11th Oct., '21	"
52.	Maxfield	..	Elizabeth	..	51 Shearer Road	..	3625	28th April, '04	"
53.	Miles	..	Eva Margaret	..	Naval Maternity Hospital	..	48457	10th Feb., '19	5th November
54.	Mills	..	Elizabeth	..	14 Alexandra Road	..	39421	19th Dec., '13	1st January
55.	Moore	..	Emma Lillian K.	..	41 Winter Road	..	48077	9th Nov., '18	"
56.	Morgan	..	Agnes	..	152 Somers Road	..	44981	31st Oct., '16	"
57.	McLean	..	Henderson Mary	..	Naval Maternity Hospital	..	58194	26th Sept., '22	6th January
58.	Norkus	..	Olive Margaret	..	Clarendon Towers, Lennox Road	..	46572	10th Nov., '17	28th September
59.	Owen	..	Jane Ann	..	22 Besant Road	..	43020	1st Nov., '15	1st January
60.	Palmer	..	Clara Gertrude	..	8 Tokio Road	..	51862	14th Aug., '20	3rd January
61.	Paul	..	Margaret	..	264 Twyford Avenue	..	35805	2nd May, '12	2nd January
62.	Pettigrew	..	Nellie L.	..	164 Queen's Road	..	48894	10th May, '19	8th January
63.	Phillips,	..	Edith	..	80 Methuen Road	..	3388	24th Mar., '04	1st January
64.	Phillips	..	A. G. L.	..	14 Wykeham Avenue	..	34709	28th Oct., '11	"
65.	Pierce	..	Alice	..	5 St. Andrew's Road	..	51903	11th August, '20	21st February
66.	Rapson	..	Amy Elizabeth	..	5 St. Andrew's Road	..	50520	14th Feb., '20	1st January
67.	Rapson	..	Charlotte	..	5 St. Andrew's Road	..	49922	10th Nov., '19	"

ROLL OF MIDWIVES—(continued)

SURNAME.	CHRISTIAN NAME.	ADDRESS.	No. of Cert.	Date of Certificate.	DATE OF NOTICE 1923
68. Rose	Ellen	16 Milton Road	31706	25th June, '10	3rd May
69. Rust	Jane	204 Powerscourt Road	40133	28th April, '14	2nd January
70. Sansom	Maud Mary	31 St. Marys Road	40579	22nd June, '1	"
71. Saveall	Rose M.	Naval Maternity Hospital	54488	11th June, '21	6th January
72. Scott	M. E.	Naval Maternity Hospital	51238	5th May, '20	4th May
73. Shaw	Kate Margaret	83 Oxford Road	52716	10th/Nov., '20	13th April
74. Sinclair	Anna	Naval Maternity Hospital	8461	27th Oct., '04	5th January
75. Silvester	Ann	23 Lower Derby Road	11818	26th Jan., '05	9th January
76. Smith	Elsie E. S.	46 Derby Road	58606	14th Oct., '22	21st July
77. Snowden	Alice Emma	44 Vernon Avenue	12625	26th Jan., '05	1st January
78. Stevens	Victoria Maud	2 Collins Road	27750	18th Dec., '08	4th January
79. Taylor	Florence Mary	1 Magdala Road, Cosham	29219	10th August, '09	1st January
80. Taylor	Lily May	3 Postbrook Road	18246	27th April, '05	"
81. Taylor	Marjorie E.	5 St. Andrew's Road	58131	13th Dec., '22	2nd March
82. Timmins	D. M.	5 St. Andrew's Road	58641	14th Oct., '22	17th November
83. Tones	Ellen	16 St. George's Square	15515	23rd March, '05	5th March
84. Tong	Flora Bertha	31 Sydenham Terrace	59142	13th Dec., '22	15th November
85. Trowbridge	Edith Mary	1 Collins Road	22860	28th Nov., '05	1st January
86. Vincent	Kathleen Beatrice	29 Byerley Road	38470	16th June, '13	3rd January
87. Wallington	Lily Ouida	21 Bercsford Road	59659	10th Feb., '23	21st September
88. Weller	Marion Edith	45 Catisfield Road	46669	10th Nov., '17	1st January
89. Westropp	Rebecca	17 Exeter Road	11514	26th Jan., '05	2nd January
90. Wilks	Elizabeth	" Somerville," Eastney Road	47873	10th August, '18	2nd July
91. Willcocks	May Julia	174 Chichester Road	57158	10th April, '22	1st January
92. Wilson	Grace Winifred	46 Cardiff Road	56136	10th Dec., '21	21st September

HOUSING.—The Housing difficulty still remains unsolved. Only 151 new houses were built during the year. The Health Committee endeavoured to get an additional 100 houses for the working classes built on Portsdown Hill, and invited applications for the erection of such houses on the basis of the Corporation subsidising builders by granting them the land, with roads and sewers already constructed, free of all cost. This represented a subsidy of the approximate value of £88 per house, but there was no response to the advertisement. Subsequently a further scheme was drawn up, which has proved more acceptable, and a tender has only this year (1924) been accepted for the erection of 100 houses. The annual provision of new houses, however, is still much below the normal and does not keep pace with the demand for them. The shortage of houses prevents one proceeding with the demolition of dwelling-houses which have become unfit for human habitation.

Some progress has been made with the Voller Street unhealthy area, and towards the end of the year tenders were asked for the erection of the first portion of the reconstruction scheme, namely, four blocks of flats to be built on the cleared part of the area. The lowest tender was accepted, but afterwards difficulties occurred and the tender was withdrawn. This has caused some months delay in arranging for fresh tenders; it is hoped, however, that these blocks will be completed during the present year.

The following gives in tabular form the work of the Department in connection with housing :—

1.—UNFIT DWELLING-HOUSES.

(1) Total number of houses inspected for defects	6719
(2) Total number inspected and recorded under Housing (Inspection of District) Regulations, 1910	2
(3) Number of dwelling-houses found so dangerous or injurious to health as to be unfit for habitation	2

2.—REMEDY OF DEFECTS WITHOUT SERVICE OF FORMAL NOTICE .. 1747

3.—ACTION UNDER STATUTORY POWERS.

A.—Under Section 28 Housing Town Planning Act, 1919.

(1) Number of dwelling-houses in respect of which Notices were served requiring repairs	99
(2) No of dwelling-houses which were rendered unfit—	
(a) By Owners	87
(b) By Local Authority	12

B.—Proceedings under Public Health Acts—

(1) Number of dwelling-houses in respect of which Notices were served requiring defects to be remedied	2416
(2) Number of dwelling-houses in which defects were remedied—	
(a) By Owners	2416
(b) By Local Authority	—

C.—Proceedings under Sections 17 and 18 Housing and Town Planning Act, 1909—

(1) Number of representations made with a view of making Closing Orders	2
(2) Number of dwelling-houses in respect of which Closing Orders were made	2
(3) Number of dwelling-houses rendered fit	—
(4) Number of dwelling-houses in respect of which Demolition Orders were made	—
(5) Number of dwellings demolished	—

GENERAL SANITARY SUPERVISION. Details of the various matters dealt with by the Sanitary Inspectors will be found in the Report of the Chief Sanitary Inspector.

MUNICIPAL DISINFECTING FLUID. During the year 10,730 gallons of electrolysed sea-water disinfectant fluid were manufactured at the station in Park Road. 5,470 gallons were supplied direct to the public, and the remainder to the Public Swimming Baths, the Public Elementary Schools, and other public bodies.

TABLE XX.
TABLE OF ANALYSES OF PUBLIC WATER SUPPLY DURING 1923
BY THE PUBLIC ANALYST.
 (Results expressed in parts per 100,000).

Date 1923	Source	Total Solid Residue	Volatile Solid Residue	Chlorine	Nitrogen as Nitrates	Total Hardness	Free or Saline Ammonia	Albuminoid or Organic Ammonia	Oxygen absorbed in 4 hours at 37° C.	Remarks
Jan. 22	Co.'s Main, Arundel St.	30.2	2.6	1.6	0.26	21.0	Nil	0.001	Nil	Bright and clear. The analysis shews that the water is in good condition from a Chemical point of view.
Feb. 19	do.	30.0	3.0	1.7	0.28	20.0	0.0005	0.003	0.026	do.
Mar. 19	do.	30.0	2.0	1.6	0.38	20.8	0.0008	0.004	0.047	do.
April 23	do.	30.1	3.0	1.7	0.36	20.2	0.001	0.003	Nil	do.
May 14	do.	30.3	3.3	1.7	0.28	20.4	0.001	0.002	Nil	do.
June 19	do.	31.0	4.0	1.7	0.33	20.4	Nil	0.001	Nil	do.
July 12	do.	30.0	3.0	1.6	0.33	21.6	Nil	0.001	Nil	do.
Aug. 20	do.	30.1	1.7	1.7	0.28	19.5	0.003	0.001	Nil	do.
Sept. 20	do.	29.9	4.0	1.7	0.33	20.0	0.001	0.002	Nil	do.
Oct. 29	do.	29.8	3.7	1.7	0.28	20.0	0.0005	0.003	0.026	do.
Nov. 26	do.	28.5	2.5	1.6	0.28	20.6	0.001	0.001	Nil	do.
Dec. 10	do.	30.1	2.5	1.7	0.29	21.0	0.001	0.001	0.026	do.

PORTSMOUTH

ABSTRACT OF METEOROLOGICAL OBSERVATIONS

DATE	Barometer reduced to Sea Level and 32° F.	TEMPERATURE										
		IN SHADE						ON GRASS		Mean of Earth below ground		Wet Bulb
		Mean 9 a.m. and 5 p.m.	Mean 9 a.m. and 5 p.m.	Mean Max.	Mean Min.	Mean Max. and Min.	Highest Max.	Lowest Min.	Mean Min.	Lowest Min.	Mean 1 ft.	Mean 4 ft.	Mean 9 a.m. and 5 p.m.
Jan. 6	29.805	43.3	47.7	37.7	42.7	51	32	31.7	26	42.5	46.0	42.6
" 13	30.038	43.2	47.8	37.0	42.4	52	30	30.5	25	40.8	45.5	42.1
" 20	30.393	42.5	47.1	35.0	41.0	52	31	30.2	26	39.5	44.5	41.2
" 27	30.555	43.0	47.0	37.7	42.3	51	31	33.1	25	40.0	44.0	41.7
Feb. 3	30.187	48.9	51.5	46.5	49.0	54	42	42.8	34	45.0	44.5	48.5
" 10	29.617	44.7	50.7	40.5	45.6	54	32	36.4	27	44.0	46.0	43.6
" 17	29.919	44.8	49.1	40.4	44.7	53	34	35.5	29	43.8	46.0	43.5
" 24	29.320	43.8	48.4	38.8	43.6	52	35	34.0	30	42.5	46.0	42.5
March 3	29.365	48.2	53.0	43.5	39.4	54	42	39.4	32	45.5	46.0	46.1
" 10	29.978	44.9	49.0	39.2	44.1	52	36	34.5	30	44.6	46.0	43.4
" 17	30.170	44.3	48.7	39.0	43.8	55	36	35.4	31	43.7	46.0	42.2
" 24	30.061	46.7	52.5	38.5	45.5	56	36	32.5	30	44.5	46.0	44.7
" 31	30.170	51.6	56.4	45.5	51.0	59	42	41.8	33	48.5	47.1	49.7
April 7	29.866	51.5	56.4	44.4	50.4	60	41	38.2	34	50.0	48.5	48.5
" 14	29.578	49.9	53.4	43.1	48.2	57	34	37.4	28	49.0	49.2	47.1
" 23	29.713	49.5	53.4	41.7	47.5	59	39	37.2	36	49.5	49.6	46.7
" 28	29.820	49.2	54.0	40.5	47.2	57	37	36.2	31	49.5	49.9	44.6
May 5	30.061	57.8	62.4	49.5	56.0	69	45	45.0	40	54.2	50.3	54.3
" 12	29.840	53.8	59.1	46.1	52.6	66	37	38.0	32	56.4	53.3	48.7
" 19	29.861	54.7	54.2	42.2	48.2	57	41	33.0	33	52.5	53.0	45.1
" 26	29.972	54.5	59.0	45.7	52.3	61	40	42.4	35	54.8	53.0	50.1
June 2	30.108	52.1	57.4	44.7	51.0	64	40	42.4	35	54.0	53.4	49.1
" 9	30.091	56.3	60.4	49.0	54.7	64	41	44.2	34	56.5	54.0	52.1
" 16	30.185	58.4	62.5	51.4	57.0	68	46	47.7	38	58.5	55.0	54.1
" 23	30.205	61.3	65.8	50.8	58.3	75	48	47.1	42	58.4	56.0	56.3
" 30	30.179	62.8	67.2	53.7	60.5	72	47	51.2	45	61.5	56.9	58.3
July 7	30.091	67.9	72.4	58.2	65.3	85	54	54.5	50	64.1	58.4	61.1
" 14	30.117	73.9	80.2	62.0	71.6	89	53	58.2	46	69.7	60.7	67.3
" 21	30.088	66.7	72.5	58.4	65.5	78	52	55.0	50	68.3	62.0	62.2
" 28	29.989	65.0	69.4	57.8	63.6	76	52	53.8	45	68.1	63.0	59.9
August 4	29.863	64.5	68.3	56.8	62.5	70	53	52.5	46	64.5	62.1	59.9
" 11	30.155	67.4	74.1	57.2	65.7	80	52	50.2	42	67.1	62.4	62.3
" 18	30.066	66.7	71.1	58.3	63.7	80	51	53.4	46	67.8	63.5	60.9
" 25	29.849	62.8	66.8	56.1	61.5	69	51	51.5	46	62.9	63.0	58.8
Sept. 1	29.828	59.7	64.1	52.8	58.5	67	47	47.2	39	60.0	61.7	54.6
" 8	30.321	60.5	66.2	48.5	57.4	71	44	41.1	36	58.6	60.3	57.1
" 15	29.901	61.7	67.7	53.0	60.3	72	49	46.0	40	60.7	60.0	58.1
" 22	29.778	56.4	60.8	48.7	54.7	62	43	43.5	35	56.9	59.7	52.1
" 29	30.064	59.6	64.8	52.2	58.5	73	48	45.8	42	57.1	58.5	56.1
Oct. 6	30.029	53.9	59.7	47.7	53.7	63	38	44.1	33	57.1	58.7	51.1
" 13	29.809	55.7	59.1	51.8	55.5	64	47	47.5	40	56.3	57.5	53.1
" 20	29.975	53.1	58.2	44.8	51.5	63	38	38.7	30	52.3	56.2	50.1
" 27	29.326	54.2	57.4	49.5	53.5	58	47	44.1	41	53.0	55.2	51.1
Nov. 3	29.974	52.7	56.1	47.0	51.5	58	40	40.0	33	52.2	54.9	53.1
" 10	29.834	43.0	48.0	37.2	42.6	52	30	30.7	21	47.3	53.3	43.1
" 17	29.722	46.0	50.4	39.1	44.7	54	30	30.7	21	44.7	50.5	43.1
" 24	29.775	37.6	42.1	33.7	37.7	46	31	26.1	23	42.0	49.2	30.1
Dec. 1	29.878	35.1	39.4	28.4	33.9	46	23	23.5	17	38.9	46.8	33.1
" 8	29.563	42.5	46.8	36.2	41.5	50	29	29.5	20	40.5	45.3	41.1
" 15	30.305	42.3	46.5	38.0	42.2	49	28	31.2	20	41.6	45.0	41.1
" 22	30.219	42.7	46.8	36.1	41.5	51	28	30.5	22	41.5	45.5	41.1
" 29	29.917	41.1	47.1	37.0	42.0	50	26	32.0	19	41.8	45.0	33.1

SOUTHSEA.

ing the 52 weeks ending December 30th, 1923.

Table with columns for SUNSHINE, CLOUD, WIND (Number of Days at 9 a.m. and 5 p.m.), RAINFALL (Total, No. of Days, Greatest fall, Date of Greatest Fall), and date. Rows list weekly data from January to December.

SUMMARY OF METEOROLOGICAL STATISTICS, 1923.

Barometer.—The mean barometer pressure for the year was 29.951 inches. The highest observed reading corrected to sea-level was 30.722 on January 25th, and the lowest 28.888 on February 8th.

Temperature.—The mean temperature in the shade was 51.3°, or 0.5° above the normal.

MAXIMUM.—The mean maximum temperature in the shade was 56.8°, the highest being 89° on July 12th.

MINIMUM.—The mean minimum temperature was 45.7°, the lowest being 23° on November 26th.

MINIMUM ON GRASS.—The mean minimum temperature on the grass was 40.3°, the lowest being 17° on November 26th.

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 1,770 hours. The greatest amount registered on one day was 14 hours 20 minutes, viz., on June 29th.

Frosts.—The minimum thermometer in the shade, four feet above the ground fell to and below freezing point on 26 days, and that on the ground on 54 occasions.

Humidity.—The mean humidity of the air (Saturation 100) was 81.2.

Rainfall.—The total rainfall was 29.54 inches. The greatest fall of rain in 24 hours was 1.02 inch, on May 28th.

Hail.—Hail fell on 11 occasions.

Snow.—Snow fell on nine occasions.

Gales occurred on 21 occasions.

Averages for the past ten years, 1914-1923 :—

<i>Rainfall</i>	<i>Hours of Bright Sunshine.</i>	<i>Mean Temperature.</i>	<i>Humidity (Saturation 100)</i>
28.15	1791.9	51.2	81.6

APPENDIX.—TABLE I.
Vital Statistics of Whole District during 1923 and previous years.

YEAR	Population estimated to Middle of each Year.	BIRTHS.		TOTAL DEATHS REGISTERED IN THE DISTRICT.		TRANSFERABLE DEATHS.		NETT DEATHS BELONGING TO THE DISTRICT.				
		Un-corrected Number	Nett.		Number	Rate	of Non-residents registered in the District	of Residents registered in the District	Under 1 Year age		At all Ages	
			Number	Rate					Number	Rate per 1,000 Nett Births		Number	Rate
1909	223,436	5820	..	26.40	3045	13.62	..	..	556	95	..	..
1910	227,821	5801	..	25.41	2995	13.14	..	..	603	104	..	..
1911	232,221	5787	5775	24.99	3101	13.40	106	72	734	127	3067	13.20
1912	236,732	5605	5570	23.60	3141	13.31	97	81	466	85	3125	13.24
1913	241,256	5989	5966	24.34	3096	12.63	98	82	545	91	3080	12.57
1914	245,827	5714	5678	23.17	3176	12.96	125	98	486	85	3149	12.81
1915	202,441	4975	4949	24.44	3405	16.81	173	55	433	87	3284	16.24
1916	197,843	5186	5184	24.09	2987	15.09	112	62	418	80	2937	14.84
1917	198,527	4613	4584	20.71	3081	15.51	197	58	326	71	2942	14.81
1918	203,396	4778	4774	20.90	3730	18.33	190	107	361	75	3647	17.93
1919	224,846	5300	5139	21.94	3006	13.37	118	93	383	74	2981	13.26
1920	233,805	6520	6520	25.85	2705	11.10	120	55	393	60	2640	11.29
1921	233,929	5662	5651	22.90	2704	11.55	142	50	355	63	2612	11.20
1922	236,630	5465	5529	22.10	2920	12.34	108	62	349	63	2874	12.14
1923	230,718	5338	5314	21.06	2540	11.00	81	65	276	52	2524	10.93

APPENDIX. TABLE II.—Cases of Infectious Diseases notified during the Year 1923.

Notifiable Disease	Cases notified in whole District.							Total Cases notified in each Locality.						Total Cases Removed to Hospital		
	At all Ages	Under 1	At Ages—Years					1	2	3	4	5	6			
			1 to 5	5 to 15	15 to 25	25 to 45	45 to 65								65 and upwards	
Small-pox
Malaria
Diphtheria (including Membranous Croup) ..	693	7	191	377	71	45	2	19	50	206	279	117	22	669		
Erysipelas	73	2	2	5	4	16	38	..	2	14	29	25	3	1		
Scarlet Fever	709	5	185	403	68	48	..	15	48	290	177	132	47	595		
Enteric Fever	42	..	3	15	8	12	2	1	2	15	9	7	8	24		
Influenzal Pneumonia ..	32	3	2	4	2	6	9	..	11	2	10	8	1	..		
Puerperal Fever	7	..	..	..	2	4	1	1	1	2	2	1	..	1
Acute Poliomyelitis	1	..	1	..	..	..	..	..	..	..	..	1	..	..
Encephalitis Lethargica ..	10	..	..	1	1	5	3	..	..	1	2	6	1	..
Ophthalmia Neonatorum ..	50	50	..	..	..	..	..	..	12	14	17	5	2	..
Cerebro-Spinal Meningitis ..	1	..	1	..	..	..	..	..	..	..	1	..	..	..
Pulmonary Tuberculosis ..	524	2	4	33	128	254	93	17	44	159	124	142	38	229		
Other forms of Tuberculosis ..	142	1	17	75	18	25	6	5	16	41	35	35	10	38		
TOTALS	2284	70	406	913	302	415	154	58	186	744	685	479	132	1557		

Isolation & Hospitals or Sanatoria—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. Infant Mortality.

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

CAUSE OF DEATH.	Under 1 week	1-2 weeks	2-3 weeks	3-4 weeks	Total under 4 weeks	4 weeks and under 3 mths.	3 months and under 6 mths.	6 months and under 9 mths.	9 months and under 12 mths.	Total Deaths under One Year
Small-pox .. .. .	..	..	..	..	..	..	..	..	..	..
Chicken-pox .. .. .	..	..	..	..	..	..	..	..	..	..
Measles .. .. .	..	..	..	..	..	..	6	1	..	7
Scarlet Fever .. .. .	..	..	..	..	..	..	..	..	..	..
Whooping Cough .. .. .	..	..	..	2	2	..	1	1	..	4
Diphtheria and Croup .. .. .	..	..	..	..	..	..	..	..	..	..
Erysipelas .. .. .	..	..	..	..	..	1	..	..	..	1
Tubercular Meningitis .. .. .	..	..	..	..	..	..	1	1	..	2
Abdominal Tuberculosis .. .. .	..	..	..	..	..	..	2	..	..	2
Other Tuberculous Diseases .. .. .	..	..	..	..	..	1	1	..	..	2
Meningitis (<i>not Tuberculous</i>) .. .. .	..	..	..	..	..	..	2	3	..	5
Convulsions	3	2	..	..	5	..	..	1	..	6
Laryngitis .. .. .	..	..	..	..	..	..	..	..	..	..
Bronchitis .. .. .	..	..	..	..	..	3	4	3	3	13
Pneumonia (all forms) .. .. .	..	..	2	1	3	4	10	4	5	26
Diarrhoea .. .. .	..	..	..	1	1	1	3	3	1	9
Enteritis .. .. .	..	..	1	..	1	8	2	4	3	18
Gastritis .. .. .	..	..	..	..	..	2	1	..	1	4
Syphilis	1	3	..	..	4	..	..	..	..	4
Rickets .. .. .	..	..	..	..	..	..	..	..	..	..
Suffocation, overlying .. .. .	..	1	..	1	2	..	1	..	..	3
Injury at Birth	5	..	..	..	5	..	..	..	..	5
Atelectasis	4	..	1	..	5	..	..	..	..	5
Congenital Malformations	7	2	1	1	11	8	5	1	..	25
Premature Birth	57	5	2	2	66	4	1	..	..	71
Atrophy, Debility and Marasmus	7	4	3	1	15	19	8	4	1	47
Other Causes	5	1	..	1	7	3	4	1	2	17
TOTALS	89	18	10	10	127	54	41	34	20	276

Nett Births in the year—Legitimate 5053
 Illegitimate 261

Port Sanitary Authority.

To the Chairman and Members of the Port Sanitary Authority

GENTLEMEN,

During the year 5,843 vessels arrived at the Port (exclusive of ships belonging to H.M. Navy). 567 vessels were inspected by the Port Sanitary Inspector, and 36 cases of insanitation were discovered, all of which were dealt with. There was one case of infectious disease landed from the S.S. *Commodore*, on 23rd April, namely, one of enteric fever, which was admitted to the Milton Infectious Diseases Hospital.

The nationality of the various ships which arrived at the Port was as follows :—

British	5756	Danish ..	8	Norwegian	17
French ..	13	Dutch ..	15	Latvian ..	1
Belgian ..	11	Finnish ..	2	Swedish ..	2
Esthonian ..	2	German ..	6	Italian ..	1

I have the honour to be, Gentlemen,

Your obedient servant,

A. MEARNS FRASER, M.D.,

Medical Officer of Health.

Milton Hospital.

REPORT OF THE MEDICAL SUPERINTENDENT.

To the Chairman and Members of the Hospital Committee.

GENTLEMEN,

I have the honour to submit my Annual Report for the year ending December 31st, 1923.

The number of admissions was 1,392 as against 1,614 the previous year.

The number of deaths was 76, discharged 1,366, remaining 180. The combined mortality in respect of all deaths was 5.5 per cent.

SCARLET FEVER.—Admitted 595 ; last year 996 ; discharged 641 ; died 5 ; remaining 78. The fatality rate was 0.84 per cent.

DIPHTHERIA.—Admitted 669 ; last year 555 ; discharged 621 ; died 46 ; remaining 74. The fatality rate was 6.87 per cent. It is a matter for regret that many of the fatal cases were admitted in an advanced state of the disease. As I have frequently pointed out, serum treatment to be effectual, must be commenced early ; every day after the first 24 hours lessens its efficacy.

ENTERIC FEVER.—Admitted 24 ; discharged 15 ; died 8 ; remaining 1. The fatality rate was 33.33 per cent

TUBERCULOSIS.—Admitted 93 ; discharged 76 ; remaining 26 ; died 16. The fatality rate was 17.2 per cent. The majority of the cases were pulmonary, and in an advanced stage. Considerable improvement is however noticed even in these cases.

VARICELLA.—Admitted 2 ; discharged 6. No deaths.

MEASLES.—Admitted 6 ; discharged 5 ; died 1. The fatality rate was 16.6 per cent.

CEREBRO-SPINAL MENINGITIS.—Admitted 1 ; discharged 1.

ERYSIPELAS.—Admitted 1 ; remaining 1.

PUERPERAL FEVER.—Admitted 1 ; discharged 1.

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

Your obedient servant,

(Sd.) JAMES MCGREGOR,

Medical Superintendent of Milton Hospital.

MILTON HOSPITAL.

NUMBER OF PATIENTS ADMITTED
during the Year 1923.

DISEASES	AGES								TOTAL
	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 and over	
Small-pox .. ..	..	..	..	..	..	..	..	..	..
Scarlet Fever ..	3	159	340	57	26	10	..	..	595
Typhoid Fever ..	..	2	8	5	6	2	1	..	24
Diphtheria	7	185	365	68	27	15	1	1	669
Cerebro-spinal Fever ..	..	1	..	..	..	..	..	..	1
Measles .. ..	..	4	1	..	..	1	..	..	6
Tuberculosis .. ..	..	..	2	27	19	29	14	2	93
Other Diseases ..	..	..	2	..	1	..	1	..	4
TOTALS ..	10	351	718	157	79	57	17	3	1392

NUMBER OF PATIENTS ADMITTED to the MILTON HOSPITAL

(Small-pox Patients—Langstone Hospital) for the years 1883 to 1923.

Year	Small-pox	Scarlet Fever	Enteric or Typhoid	Diphtheria	Measles	Other Diseases	Totals
1883	5	1	..	..	1	..	7
1884	1	13	2	4	2	..	22
1885	8	16	6	6	1	..	37
1886	7	29	66	11	11	1	125
1887	20	56	37	27	4	3	147
1888	4	120	35	23	8	8	198
1889	6	278	48	18	5	8	363
1890	1	384	114	69	1	7	576
1891	..	180	51	52	22	18	323
1892	..	532	81	27	..	5	645
1893	6	503	94	12	6	5	626
1894	22	238	53	38	22	9	382
1895	..	177	83	46	15	25	346
1896	6	354	76	38	10	17	499
1897	..	413	102	37	6	11	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	179	..	..	542
1902	8	339	105	197	..	..	649
1903	3	572	70	211	..	2	858
1904	..	340	73	220	..	3	636
1905	10	274	57	198	..	..	539
1906	1	243	72	239	..	..	555
1907	..	202	109	235	..	..	546
1908	..	343	102	284	1	1	731
1909	..	631	96	354	1	..	1082
1910	..	850	114	336	..	..	1300
1911	..	635	70	436	..	..	1141
1912	..	702	71	782	..	..	1555
1913	..	730	55	652	..	..	1437
1914	..	469	110	615	..	..	1194
1915	..	630	33	684	..	27	1374
1916	..	340	47	589	..	35	1011
1917	..	383	21	340	4	48	796
1918	..	277	15	483	25	27	827
1919	..	250	10	520	10	156	946
1920	..	382	12	598	16	105	1113
1921	..	1010	26	482	8	71	1597
1922	..	996	14	555	6	41	1614
1923	..	595	24	669	6	98	1392

Report of the Chief Sanitary Inspector

For the Year 1923.

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

GENTLEMEN,

I beg to present my thirty-eighth Annual Report as Chief Sanitary Inspector of the work carried out by the Department during the year.

2,416 Informal Notices and 669 Statutory Notices were served for the abatement of Nuisances under the Public Health Acts and Bye-laws.

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

During the year I made 84 visits of inspection to the Theatres, Music Halls, and other places of public entertainment, and found the sanitary arrangements satisfactory.

The following summary shews the particulars of the work carried out under the supervision of your officers:—

DRAINAGE DEFECTS.

Drains cleansed	494
Drains repaired or relaid	262
Drains ventilated or ventilating shafts repaired	38
Waste or rain-water pipes disconnected from drains	7
New water-closet pans provided	111
New pedestal pans provided	6
Water-closet fittings repaired	316
Flushing apparatus provided to houses	55
" " " workshops	3
Separate sanitary accommodation provided to workshops	6
Water-closets disconnected from Workshops	3
" efficiently screened	4
" ventilated	1
" cleansed	18
Urinals constructed	6
Urinals provided with flushing apparatus	5
Glazed stoneware sinks provided	45
Sink waste-pipes repaired and renewed	125

SANITARY DEFECTS IN DWELLING-HOUSES
OR WORKSHOPS.

Rain-water spouting cleansed or repaired	564
Roofs repaired	722
Weather slating repaired or external walls protected	110
Floors, stairs or doors repaired	523
Sashes, lines, sills or frames repaired	729
Damp courses provided or repaired	20
Houses or parts of houses cleansed or distempered	651
" " " repaired	543
Sanitary dustbins provided	26
Dust chutes repaired	6
Space beneath floors ventilated	23
Yards repaved or paving repaired	425
Overcrowding in dwelling-houses abated	40
" workshop abated	1
Water supply laid on or services repaired	33
Foundations of houses concreted	4
Workshops cleansed or distempered	12
Workshop floors repaired	4
Workshop roofs repaired	16
Cooking ranges repaired or renewed	225
Firegrates repaired or renewed	173
Coppers repaired or renewed	207
Premises rendered rat-proof	25
Other nuisances abated in dwelling-houses	148
" " workshops	6
Cellars discontinued as dwellings	2

OFFENSIVE MATTER, &c.

Manure and refuse removed	60
Stagnant water removed	5
Animals removed	26
Bedding cleansed or destroyed	21
Rain-water tanks removed	2

SLAUGHTERHOUSES, COWSHEDS, &c.

Slaughterhouses cleansed	8
" repaved	1
Cowsheds cleansed	4
Yards, stables, sties, etc., cleansed	46
Bakehouses cleansed	4
Water supplied to bakehouse	1
Manure pits provided	8

BYE-LAWS.

Notices under Slaughterhouse Bye-laws complied with	8
" Nuisance Bye-laws complied with	3

The following articles of Food have been destroyed as unfit for the food of man, viz. :—

Carcase of Beef	1	Carcases of Veal	2
Quarters of Beef	7	Pieces of Beef .. lbs.	10760
Carcase of Mutton	1	" Mutton	236
Carcases of Lamb	24	" Lamb	159
Carcases of Pork	2	" Pork	42

Pieces of Bacon	..	lbs.	253½	Codling	..	..	boxes	9
Ox Livers	..	..	1253	Trout	..	..	lbs.	6
„ Skirts	..	..	112	Dabs	..	..	boxes	9
„ Kidneys	..	..	44	„	..	..	kits	2
„ Tails	..	..	328	„	..	..	stone	9
Sheeps' Livers	..	..	40	Cockles	..	..	bags	5
„ Kidneys	..	boxes	4	„	..	..	galls.	12
„ „	..	lbs.	25	Winkles	..	..	bags	6
Lambs' Livers	..	..	225	Megrams	..	..	box	1
Pigs' Plucks	..	..	432	Witches	..	..	„	1
„ Livers	..	..	10	Halibut	..	..	„	1
„ Kidneys	..	..	33	Dogfish	..	..	boxes	19
„ Cauls	..	..	30	Catfish	..	..	„	16
Tripe	..	cases	20	Haddock	..	..	stone	7½
„	..	lbs.	20	„	..	..	boxes	7
Offal	..	..	608	Salmon	..	..	kits	2
Corned Beef	..	tins	70	„	..	..	lbs.	532
Suet	..	lbs.	103	„	..	..	tins	38
Kidney Knobs	..	..	6	Shrimps	..	..	baskets	47
Pressed Beef	..	lbs.	16	„	..	..	bags	18
Preserved Meat and Fish	..	..	..	„	..	..	boxes	4
Paste	..	jars	19	„	..	..	kits	3
Rabbits	..	..	187	Prawns	..	..	tins	21
„	..	cases	2	Crabs	..	..	barrels	29
Turkeys	..	..	16	„	..	..	boxes	3
Eggs	..	..	3800	„	..	..	lbs.	169
„ (liquid)	..	tins	2	Lobsters	..	..	lbs.	202
Condensed Milk	..	..	149	„	..	..	boxes	4
Hake	..	boxes	8	Roes	..	..	„	15
Skate	..	..	10	Sardines	..	..	tins	3083
„	..	stone	4	Kippers	..	..	boxes	504
„	..	kit	1	Bloaters	..	..	„	28
Codfish	..	boxes	14	„	..	..	cwts.	2
„	..	stone	13	Red Herrings	..	..	boxes	33
Whiting	..	..	9½	Dried Haddock	..	..	„	393
„	..	boxes	3	„ Codling	..	..	„	217
„	..	kits	2	„ Filletted Fish	..	..	„	467
Mackerel	..	boxes	101	Potatoes	..	..	barrels	35
„	..	barrel	1	Pears	..	..	boxes	37
Pollack	..	boxes	2	„	..	..	barrels	38
Gurnet	..	..	1	Apples	..	..	„	9
Dutch Eels	..	..	2	Oranges	..	..	cases	30
Soles	..	lbs.	8	Cherries	..	..	baskets	148
„	..	case	1	Tomatoes	..	..	crates	30
Mixed Fish	..	cases	5	Apricots	..	..	tins	857
Plaice	..	..	24	Chocolates	..	..	lbs.	14
„	..	kits	3	Steak & Kidney Pdgs.	..	..	tins	67
Bass	..	boxes	2	Minced Steaks	..	..	„	52
Bream	..	..	8	Brawn	..	..	„	64
„	..	stone	4	Sauce	..	..	bottle	1
Dories	..	boxes	2	Chestnuts	..	..	bags	2

GENERAL INSPECTION OF THE DISTRICT.

DWELLING-HOUSES.—6,719 dwelling-houses were examined and 9,593 re-inspections were made whilst work ordered to be carried out was in progress.

COMPLAINTS.—1,423 complaints were made at the Office and received attention.

SLAUGHTERHOUSES.—3,623 visits were made to the slaughterhouses. There were 69 in actual regular use on December 31st, 13 of which were annual licences and one a five years licence. They were during the year generally well kept. Proceedings were taken in three cases for breaches of Slaughterhouse Bye-law No. 9, and several butchers and slaughterers were cautioned.

DAIRIES, COWSHEDS AND MILKSHOPS.—1,867 visits were made to the registered dairies, cowsheds and milkshops. There are 295 retail purveyors, 11 wholesale dealers in milk, and 7 cowkeepers carrying on business in the Borough. With few exceptions their premises were well kept. Under the Milk (Special Designations) Order 1922, 18 licences for the sale of Certified, Grade A (Tuberculin tested), Grade A and Pasteurized Milk were issued.

COMMON LODGING HOUSES.—385 visits were made to the Common Lodging Houses. There are only eight registered in the Borough, and although several of them are very old premises, they have been fairly well kept during the year.

WORKSHOPS.—499 visits were made to the different workshops, which were well kept, and 424 visits were made to out-workers' premises. Sixteen complaints were received from H.M. Inspector of Factories, which received attention.

BAKEHOUSES.—659 visits were made to the Bakehouses, which have been well kept.

SAUSAGE MAKING PREMISES.—769 visits were made to the premises. The factories and the ingredients used in the manufacture of sausages, brawn, etc., were found satisfactory.

OLD DRAINS.—2,378 old drains were tested or re-tested.

NEW DRAINS AND FITTINGS.—725 new drains were tested or re-tested, and 542 sanitary fittings were examined by Inspector Turner.

OCCUPATION CERTIFICATES.—151 Occupation Certificates were issued with respect to new properties.

SANITARY CERTIFICATES.—44 Sanitary Certificates with respect to the sanitary condition of the drains and fittings of old dwelling-houses have been issued.

INCREASE OF RENT AND MORTGAGE INTEREST (RESTRICTION) ACT, 1920.—Under this Act 7 Certificates with respect to dwelling-houses not being kept in a reasonable state of repair were granted to tenants.

RATS AND MICE (DESTRUCTION) ACT.—Inspector Turner paid 508 visits to rat infested premises, and issued 103 Notices on the occupiers or owners of the properties.

INFECTIOUS DISEASES.—1,374 cases of infectious diseases have been visited and investigated, and 1,658 rooms have been disinfected by the Disinfector.

PROSECUTIONS AND FINES.

During the year proceedings with respect to Nuisances under the Public Health Act 1875 were taken in 9 cases. The usual orders for abatement were made by the Magistrates, and Fines and Costs amounting to £3 18s. 0d. imposed.

An application was made for an order for possession under the Housing, Town Planning, etc., Act with respect to Nos. 71 and 73 Cottage View, which was granted at the expiration of a month.

FOOD AND DRUGS ACT.—Sixteen informations were laid for offences under this Act, 14 being for adulterated milk and two for spirits below the legal standard. Convictions were obtained in 11 cases, and Fines amounting to £47 inflicted. Three cases were dismissed and two withdrawn.

SLAUGHTERHOUSE BYE-LAWS.—Three slaughtermen were proceeded against under Bye-law No. 9 for slaughtering animals until they had been effectually stunned by a mechanically operated instrument, suitable and sufficient for the purpose. These were the first cases under the new Slaughter-house Bye-laws, and each defendant was fined 10s., inclusive of costs.

I am, Gentlemen,

Your obedient servant,

FRED. L. BELL,

Chief Sanitary Inspector.

The Diseases of Animals Act.

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

SIR,

I beg most respectfully to present my Annual Report for the year ending December 31st, 1923.

INSPECTION OF CATTLE.—The following is a list of animals brought into the Borough from different parts of the country during the year 1923, viz. :—

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

Beasts	..	..	6,875
Sheep	..	..	17,620
Calves	..	..	8,260
Pigs	..	..	9,787
Horses	..	..	218
			<hr/>
			42,760
			<hr/>

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

Beasts	..	..	433
Sheep	..	..	762
Calves	..	..	937
Pigs	..	..	1,997
Yearlings	..	..	135
Horses	..	..	238
			<hr/>
			4,502
			<hr/>

(3) Cattle, etc., arriving at Cosham Market :—

Beasts	..	..	267
Sheep	..	..	3,371
Calves	..	..	907
Pigs	..	..	6,836
Poultry, etc.	..	..	9,103
Horses	..	..	39
			<hr/>
			20,523
			<hr/>

(4) Cattle, etc., arriving at Cosham Railway Station :—

Beasts	..	..	687
Sheep	..	..	1,563
Calves	..	..	68
Pigs	..	..	66
			<hr/>
			2,384
			<hr/>

INSPECTION OF CATTLE TRUCKS, ETC.—2,053 Cattle Trucks, 639 Horse Boxes, and 304 Tow-boats have been inspected, cleansed and limewashed, as required by the Orders of the Ministry of Agriculture and Fisheries.

FOOT AND MOUTH DISEASES ORDERS, 1923.—A large number of outbreaks of the above disease occurred during the year in various parts of the country. In consequence of that Portsmouth, with the County of Southampton, was made a controlled area, so that no cattle could be moved into or out of the Borough without obtaining a licence, and then only for immediate slaughter. I issued licences for 503 beasts, 816 sheep, 871 calves, and 984 pigs. No case of the disease was reported in the Borough during the year.

SWINE FEVER ORDER OF 1922.—A new Order was issued by the Ministry of Agriculture and Fisheries, which included nearly the whole of Great Britain making one scheduled area. All pigs licensed from markets for slaughter had to be marked, and store pigs to remain on the premises for 28 days. I issued and received 3,011 licences for the removal of 19,369 fat pigs for immediate slaughter, and 442 licences for 2,668 store pigs. During the year several suspicious cases were notified, but when investigated by the Veterinary Surgeon, only two cases were declared to be swine fever. This occurred at piggeries situated at Velder Avenue, Milton, where six pigs died and the remainder were slaughtered. The second case was at piggeries situated at Hilsea Road, Copnor. Of 30 pigs on the premises 16 died and the remainder were licensed for immediate slaughter by the Government Veterinary Surgeon. The carcasses were buried in lime, and the sties limewashed and disinfected as required by the Order.

RABIES ORDER OF 1919.—All reports received from the Police of suspicious cases were investigated, and a post-mortem examination made by the Corporation Veterinary Surgeon, but in no case was found to be Rabies.

SHEEP SCAB ORDER OF 1920 AND DOUBLE DIPPING ORDER OF 1920.—Under the above Order 100 sheep were licensed into the Borough. They were kept under observation until slaughtered, as required by the Order.

PROTECTION OF ANIMALS ORDER OF 1911-1912.—Several complaints were made of animals in transit from the various markets, etc., by road and rail, being injured or dying. All cases were seen by the Veterinary Surgeon, no disease being found. The carcasses were licensed to the knacker-yard.

IMPORTATION OF DOGS ORDER, 1914-1918.—During the year I received 41 notifications from H.M. Customs of dogs brought into this Port from foreign countries, also three licences for performing dogs at local theatres, issued by the Ministry of Agriculture and Fisheries. These were dealt with as provided in the Order.

PARASITIC MANGE ORDERS OF 1911-1918.—During the year many suspicious cases of Parasitic Mange were reported by the Police and owners of horses, but when examined by the Veterinary Surgeon, Parasitic Mange was not discovered.

CONVEYANCE OF LIVE POULTRY ORDER OF 1919.—During the year crates and boxes for carrying poultry were inspected at railway stations and Cosham Market. In cases where the receptacles were not suitable for the safe conveyance of poultry, or found to be dirty, the owners were warned.

IMPORTATION OF CATTLE ORDER, 1922.—Under this Order one license was received from Fishguard, the landing port for foreign animals, for the importation of ten fat beasts for slaughter. These animals were found to be marked in accordance with the Order and free from disease.

I am, Sir,

Your obedient servant,

G. W. MONKCOM,

Inspector, Diseases of Animals Acts.

The Public Analyst's Report.

THE CHEMICAL LABORATORY,
16 ARUNDEL STREET,
PORTSMOUTH.

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

GENTLEMEN,

I beg to submit my Report on the work conducted in the Public Analyst's Department during the year ending 31st December, 1923.

The number of samples examined shows an increase on the number examined during the previous year, and the percentage of detected adulteration is slighter higher.

The year under review has seen the introduction of "The Milk and Dairies (Amendment) Act, 1923," which came into force on January 1st, 1923. This Act has already caused a large increase in the work of my Department, and I would especially draw attention to the results of the Bacteriological Examinations of Milk under this Act, which will be found on pages 7, 8 and 9 of this Report.

I would like to take this opportunity of recording my appreciation of the work done by my Assistant, Mr. C. M. Beckett, without whose aid it would be impossible to cope with the new and increased work imposed upon the Department by fresh Legislation with regard to Foodstuffs.

I would also like to record the thorough and conscientious manner in which Inspector E. J. G. Sinnett—the Inspector under the Food and Drugs Act—carries out his duties at all times.

I remain,

Your obedient servant,

REGINALD P. PAGE,

Public Analyst.

REPORT OF THE PUBLIC ANALYST.

During the year ending 31st December, 1923, the total number of samples examined was 1,336, which may be briefly summarised as follows :—

Food and Drug Samples .. .. .	..	1,202
Milk and Dairies Amendment Act		46
Waters .. .. .	.. .. .	21
Paints, Oils, etc. .. .. .	.. .. .	37
Miscellaneous .. .. .	.. .. .	30
	Total	1,336

The number of samples taken under “ The Sale of Food and Drugs Act ” is 1,202. This averages one sample to every 196 persons in the Borough, or a “ Sample Rate ” of 5.0 samples per 1,000 persons.

The nature of the samples analysed, the number adulterated and of “ Inferior Quality ” is given in the following table :—

TABLE A.

Nature of Sample	Number Examined	Number Genuine	Number Inferior	Number Adulterated	Percentage Adulterated
Milk	588	555	5	28	4.7
Separated Milk	2	2	..	..	..
Condensed Milk	11	10	1	..	..
Condensed Milk, Machine S'md	3	3	..	..	..
Cream	12	10	..	2	16.6
Preserved Cream	11	11	..	..	..
Butter	133	129	..	4	3.
Margarine	21	21	..	..	..
Cheese	9	9	..	..	..
Cream Cheese	4	4	..	..	..
Lemon Cheese	5	2	..	3	60.
Lard	15	15	..	..	..
Dripping	6	6	..	..	..
Cocoa	45	45	..	..	..
Coffee	43	42	..	1	2.3
Tea	10	10	..	..	..
Mustard	19	19	..	..	..
Pepper	14	14	..	..	..
Baking Powder	4	4	..	..	..
Egg Powder	7	4	3	..	..
Vinegar	6	6	..	..	..
Flour	7	3	4	..	..
Honey	6	6	..	..	..
Treacle	5	5	..	..	..
Mince-meat	5	3	..	2	40.
Jam	5	3	2	..	..
Sponge Cake	21	21	..	..	..
Sauce	2	2	..	..	..
Rice	11	11	..	..	..
Pearl Barley	4	4	..	..	..
Milk Powder	4	4	..	..	..
Ground Ginger	3	3	..	..	..
Ground Almonds	2	2	..	..	..
Flaked Beef Suet	3	3	..	..	..
Sausage	4	4	..	..	..
Meat Paste	4	4	..	..	..
Fish Paste	4	4	..	..	..
Desiccated Egg	1	1	..	..	..
Ice Cream	6	6	..	..	..
Whiskey	46	21	2	23	50.
Gin	8	8	..	..	..
Soda Water	3	3	..	..	..
Ginger Wine	2	..	..	2	100.
Raisin Wine	1	..	..	1	100.
Cream of Tartar	4	4	..	..	..
Tartaric Acid	3	3	..	..	..
Liquorice Powder	3	3	..	..	..
Extract of Cascara	3	3	..	..	..
Magnesia	2	..	2	..	..
Seidlitz Powder	3	3	..	..	..
Camphor	2	2	..	..	..
Castor Oil	10	10	..	..	..
Cod Liver Oil	8	8	..	..	..
Olive Oil	6	6	..	..	..
Camphorated Oil	13	13	..	..	..
Amm. Tincture of Quinine	4	4	..	..	..
Boric Acid Ointment	3	3	..	..	..
Zinc Ointment	3	3	..	..	..
Eucalyptus Oil	2	2	..	..	..
Linseed Oil	4	4	..	..	..
Glycerine	4	4	..	..	..
Total ..	1202	1117	19	66	5.4

TABLE B.
ADULTERATED SAMPLES.

No.	Nature of Sample.	Nature of Adulteration.	Observations.
33	Coffee	30% of Chicory	Test sample by M.O.H.
45	Milk	Sediment 20 parts per 100,000	Cautioned
59	Whiskey	10% of Excessive Water	Test sample
105	Ditto	8.4% "	"
108	Ditto	7.6% "	"
109	Ditto	7.6% "	"
113	Ditto	3.8% "	"
116	Ditto	4.6% "	"
117	Ditto	3.8% "	"
119	Milk	Coloured with an Organic Dye	Fined £1
122	Milk	" " "	Summons withdrawn
123	Whiskey	7.6% of Excessive Water	Cautioned by M.O.H.
124	Ditto	9.8% "	"
127	Ditto	5.0% "	"
128	Ditto	6.1% "	"
129	Ditto	9.3% "	"
171	Milk	13.5% of added Water	Fined £2
298	Ditto	8.0% Deficient in Milk Fat	Dismissed on Warranty
301	Ditto	5.0% "	Cautioned by M.O.H.
302	Ditto	5.0% "	Summons withdrawn
361	Ditto	6.0% "	Cautioned by M.O.H.
365	Ditto	5.0% "	No Prosecution
369	Ditto	7.0% "	Fined £2
407	Ditto	11.0% "	Fined £10
423	Ditto	23.0% "	Test sample, Private Person
503	Cream	0.17% of Boric Acid	Test sample
518	Milk	12.0% Deficient in Milk Fat	Fined £5
526	Ditto	18.0% "	Dismissed on Warranty
534	Butter	4% above the legal limit of 16% of water	Test sample
543	Milk	13.3% Deficient in Milk Fat	Test sample
566	Milk	23.0% Deficient in Milk Fat	Fined £5
568	Milk	23.3% "	Test sample, Private Person
571	Milk	12.0% "	Dismissed on Warranty
591	Lemon Cheese	Salicylic compounds equivalent to Salicylic Acid 1.0 grains to the pound	Test sample
594	Lemon Cheese	Salicylic compounds, equivalent to Salicylic Acid 1.8 grains to the pound	Test sample
598	Lemon Cheese	Boron compounds, equivalent to Boric Acid 0.16%	Test sample
617	Cream	0.15% of Boric Acid	Cautioned by M.O.H.
687	Butter	7.3% above the Legal Limit of 16% of water	Test sample
709	Milk	10% of Added Water	"
710	Ditto	5.8% "	"
718	Ditto	7.0% of Added Water and 10% deficient in Milk Fat	Fined £10
719	Ditto	5.4% of Added Water	Summons withdrawn
721	Butter	14.0% above the Legal Limit of 16% of water	Test sample
722	Ditto	13.1% above the Legal Limit of 16% of Water	Fined £1 10s.
726	Milk	8.0% of Added Water	Test sample
810	Ditto	12% "	Fined £5
811	Ditto	17% "	Fined £5
860	Ditto	4.8% "	Cautioned by M.O.H.
884	Whiskey	4.6% of Excessive Water	Test sample
888	Ditto	17.6% "	"
889	Ditto	6.9% "	"
893	Ditto	18.4% "	Fined £1
894	Ditto	3.0% "	Cautioned by M.O.H.
895	Ditto	3.0% "	" "

TABLE B.—*continued.*

1073	Mince-meat	..	Salicylic compounds equivalent to Salicylic Acid 1.8 grains to the pound	..	..	..	..	..	Test sample
1075	Ditto	..	Benzoic compounds, equivalent to Benzoic Acid 2.0 grains to the pound	..	..	..	..	..	..
1089	Whiskey	..	15.4% of Excessive Water	..	..	..	..	..	..
1090	Ditto	..	10.7%	..	..	..	..	..	..
1091	Ditto	..	8.0%	..	..	..	..	..	..
1093	Ditto	..	13.2%	..	..	..	..	..	..
1100	Ditto	..	7.7%	..	..	..	..	..	Fined £1
1107	Milk	..	4.0% Deficient in Milk Fat	..	..	..	..	..	Cautioned by M.O.H.
1112	Ditto	..	9.0%	..	..	..	..	..	Cautioned by M.O.H.
1127	Raisin Wine	..	Salicylic compounds equivalent to Salicylic Acid 2 grains to the Pint	..	..	..	..	..	Test sample
1128	Ginger Wine	..	Salicylic compounds equivalent to Salicylic Acid 7 grains to the Pint	..	..	..	..	..	Test sample
129	Ditto	..	Salicylic compounds equivalent to Salicylic Acid 6 grains to the Pint	..	..	..	..	..	Test sample

The Fines, including Costs, amounted to £48 10s. 0d.

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

TABLE C.

Showing the number of samples analysed and the number adulterated during the last Five years in Portsmouth

	Year	Samples Examined	Number Adulterated	Percentage Adulterated
PORTSMOUTH	1919	956	40	4.2
Do.	1920	1,120	65	5.8
Do.	1921	1,202	64	5.3
Do.	1922	1,239	53	4.2
Do.	1923	1,202	66	5.4
ENGLAND AND WALES	1922	113,860	7,106	6.2
Do.	1921	113,664	7,582	6.7

MILK.

The following Table gives the statistics of Milk Adulteration during the last Five years.

TABLE D.

	Year	Samples Examined	Number Adulterated	Percentage Adulterated
PORTSMOUTH	1919	651	33	5.0
Do.	1920	666	30	4.5
Do.	1921	651	31	4.7
Do.	1922	573	16	3.3
Do.	1923	588	28	4.7
ENGLAND AND WALES	1921	61,439	5,290	8.6
Do.	1922	60,274	4,624	7.7
LONDON	1922	13,179	593	4.5

TABLE E.

Month	Fat	Solids not Fat	Total Solids
January	3.72	8.96	12.68
February	3.39	8.85	12.24
March	3.47	8.90	12.37
April	3.36	8.93	12.29
May	3.38	9.00	12.38
June	3.40	8.92	12.32
July	3.52	8.81	12.36
August	3.54	8.77	12.31
September	3.78	8.82	12.60
October	3.73	8.94	12.67
November	3.68	9.05	12.73
December	3.63	8.91	12.54
Average	3.55	8.90	12.45
Average 1922	3.66	8.82	12.48
" 1921	3.69	8.77	12.46
" 1914	3.42	8.82	12.24

THE MILK & DAIRIES (AMENDMENT) ACT, 1923.

This Act, which grades Milk as follows : " Certified Milk," " Grade A (Tuberculin Tested)," " Grade A " and " Pasteurised " came into force on 1st January, 1923, and it is now possible to see the results obtained after twelve months working of the Act.

No samples were taken officially until June, as it was thought advisable to allow Retailers of Graded Milks to establish a suitable source of supply and to create a demand.

During this period (January to June) 27 samples were taken unofficially, out of which only 12 came up to the necessary standard.

It must be remembered that Milk as drawn from the cow contains practically no Bacteria, but normally as delivered to the Consumer, it may contain Millions of Bacteria. At every stage from the Producer to the Consumer, Milk is liable to contamination, and, having once gained access to the milk, Bacteria multiply with great rapidity. This is especially so in hot weather, when the temperature of the Milk is above, rather than below, Normal.

The " Bacillus Coli," to which reference is made in the Act, is sometimes known as an " Indicator Organism," inasmuch as it is always present in Cow-dung and the dust-infested atmosphere of Cowsheds. The presence of this Organism in Milk therefore indicates lack of Sanitary methods at the source of supply.

“ CERTIFIED MILK.”

Examined 6 ; 5 Passed, 1 Rejected.

This Milk is produced from specially selected herds of Dairy Cows, which are subjected to frequent Veterinary Inspection.

The Milk is bottled and sealed in sterile bottles at the Farm, and is not opened until actually used by the Consumer.

The Standards for this milk are “ not more than 30,000 Bacteria per cubic centimetre and ‘ Bacillus Coli ’ absent in one-tenth of a cubic centimetre.”

The average retail price of this milk is $1/2\frac{1}{2}$ per quart.

Results of Examination :—

Date	Temp. on arrival	No. of Bacteria per cubic cent.	B. Coli in 1/10th C.C.	Fat per cent.	Solids-not Fat	Remarks
23-7-23	63° F.	7,300	Positive	3.0	8.83	Rejected
14-8-23	65° F.	1,900	Negative	3.2	8.89	Pass
26-9-23	64° F.	600	Negative	3.2	8.90	Pass
31-10-23	57° F.	3,000	Negative	3.1	9.01	Pass
26-11-23	41° F.	1,070	Negative	3.3	9.14	Pass
17-12-23	51° F.	1,310	Negative	3.15	9.26	Pass

A study of the above results shows that the standard of cleanliness, as judged by the number of Bacteria present in the Milk, has been well maintained. The figures also show that, even in the months of July, August and September, there is no large increase in the number of Bacteria, due to the hot weather.

From the point of view of richness in quality the Milk is decidedly poor in Fat content. It is reasonable to suppose that in framing the Act, milk of at least average quality was pre-supposed, whereas all the samples of Certified Milk have been below the average in Fat content.

GRADE A (TUBERCULIN TESTED).

This Milk is produced from Cows which have been certified as free from Disease, and which have been subjected to the Tuberculin Test at intervals of six months.

During the year under review there has been no sale of this Grade of Milk, although it is being retailed at the present time.

GRADE A.

Grade A Milk is to be produced and treated under such conditions that a sample taken at any time between production and delivery to the Consumer shall not contain "more than 200,000 Bacteria per cubic centimetre, and ' Bacillus Coli ' shall be absent from one-hundredth of a cubic centimetre of Milk." In other words, it is Milk which is produced under what should be normally clean conditions, and it is delivered in sealed churns to the Retailer, who bottles it at the local Dairy. The average retail price of this Milk during the year has been 9d. per quart.

For comparison purposes the results of a few of many examinations of *Ordinary* milk as supplied to Local Institutions are given.

Date	Temp. on arrival	No. of Bacteria per cubic cent.	B. Coli in 1/100th C C.	Fat per cent.	Solids not Fat.	Remarks
23-7-23	63° F.	15,000	Negative	3.8	8.94	Pass
23-7-23	65° F.	11,250	Positive	3.3	8.69	Rejected
14-8-23	65° F.	32,100	Positive	3.6	8.87	Rejected
25-9-23	61° F.	2,600	Negative	3.35	8.96	Pass
26-9-23	60° F.	12,500	Positive	3.8	8.89	Rejected
30-10-23	58° F.	3,000	Negative	3.6	9.20	Pass
30-10-23	56° F.	2,000	Positive	4.0	8.95	Rejected
19-11-23	48° F.	3,300	Negative	3.5	9.56	Pass
11-12-23	53° F.	1,720	Negative	3.8	9.09	Pass
19-11-23	50° F.	2,800	Negative	3.3	9.26	Pass
19-11-23	50° F.	5,200	Positive	3.9	9.64	Rejected
11-12-23	52° F.	4,450	Negative	4.6	8.53	Pass
13-12-23	53° F.	5,800	Negative	4.1	9.00	Pass
26-11-23	47° F.	14,300	Positive	3.65	9.16	Maternity Hospital
13-12-23	55° F.	19,400	Positive	3.5	9.01	"
27-2-24	44° F.	7,900	Positive	3.65	8.85	"
17-12-23	53° F.	25,000	Positive	3.7	9.04	I.D. Hosptl
30-1-24	58° F.	5,700	Negative	3.2	9.11	"
27 2-24	42° F.	5,300	Positive	3.9	8.82	"

The results up to the present show the great improvement which has taken place in the methods of production and handling of Milk under the system of grading. They also show that a standard of 200,000 Bacteria per cubic centimetre is vastly in excess of what a milk produced under normally sanitary conditions should contain.

Comparing the results with those obtained from the examination of the Milk supplied to Local Institutions, it is seen that only on one occasion would the milk come up to Grade A Standard.

In my Annual Report for 1922 I stated that "I would suggest that the present specifications in force for the Hospitals and other Municipal Institutions be altered and that, in future, only 'Grade A' Milk be accepted. By so doing, not only would these Institutions be assured of a better supply, but also the Local Authority would, by encouraging the production of Graded Milk, create a greater demand for it by the general public, and so improve the milk supply as a whole." And I would emphasize the words in my report for 1923, in view of the fact that the opinion then expressed is justified by results.

PRESERVATIVES

PUBLIC HEALTH (MILK AND CREAM REGULATIONS) 1912 AND 1917.

1.—MILK ; AND CREAM NOT SOLD AS PRESERVED CREAM.

	<i>No. of Samples examined for the presence of Preservative.</i>	<i>No. in which Preservative was reported to be present and Percentage of Preservative in each Sample.</i>
Milk ..	588	Nil
Skimmed Milk	2	Nil
Cream ..	12	2 contained Boron Preservative as follows:— No. 503 Boric Acid 0.17%—Test Sample. No. 617 Boric Acid 0.15%—Caution by M.O.H

2.—CREAM SOLD AS PRESERVED CREAM.

(a) (1) Correct statements made	8
(2) Statements incorrect	3
	—
	Total 11
(3) <i>Percentage of Preservative found in each Sample.</i>	
No. 253 Boric Acid 0.08%	} Not exceeding 0.4% Boric Acid
No. 254 " 0.10%	
No. 255 " Absent	
No. 256 " 0.16%	
No. 257 " 0.06%	
No. 504 " 0.03%	
No. 505 " Absent	
No. 506 " 0.14%	
No. 614 " Absent	
No. 619 " 0.14%	
No. 512 " 0.16%	
(b) (1) Above 35%	11
(2) Below 35%	0
	—
	Total 11
(c) None.	
(d) None.	

3.—THICKENING SUBSTANCES.

No evidence of their addition to Cream or Preserved Cream.

4.—None.

BUTTER.

133 Samples of Butter were analysed during the year of which Four were found to be adulterated by the addition of an excessive amount of Water.

The following Table gives the number of samples of Butter examined, the number adulterated, and the percentage of adulteration during the last five years :—

	Year	Number Examined	Number Adulterated	Percentage of Adulteration
PORTSMOUTH	1919	57	....	....
Do.	1920	76	....	....
Do.	1921	146	1	0.6
Do.	1922	123	....	....
Do.	1923	133	4	3.0
ENGLAND AND WALES ..	1922	11,234	189	1.7

Each sample of Butter is examined for the presence of Preservatives, with the result that Boron Preservative was found in 55 samples, or 41 per cent. of the samples examined. In no case was the percentage of Boron Preservative detected greater than 0.29 per cent. Boric Acid.

MARGARINE.

Twenty-one samples of Margarine were examined, all of which proved to be genuine. All of these samples were preserved with Boron Preservative, but in no case did the amount found exceed 0.14 per cent. Boric Acid.

SPIRITS.

Forty-six samples of Whiskey were analysed during the year, and of these Twenty-three were returned as adulterated and two as being of "Inferior Quality."

This is an extraordinarily high percentage of adulteration, and may, to some extent, be due to the fact that 1923 is the first year since the termination of the War that samples have been taken.

In every case the adulteration consisted in the addition of Water beyond the limit of 35 degrees Under Proof, as laid down in the Licensng Act 1921.

Having regard to the price of Whiskey at the present time, the sale of Water at the price of Whiskey represents gross fraud on the Consumer of this commodity.

DRUGS.

Seventy-seven samples of Drugs were purchased at Local Pharmacies, and with the exception of Two samples of Magnesia all of these were in accordance with the requirements of the British Pharmacopoeia.

PAINTS, OILS AND MISCELLANEOUS SAMPLES.

Under this heading are included Samples supplied under contract to the Corporation and the Board of Guardians, and also special investigations undertaken on behalf of the Police, the Medical Officer of Health, and the various Committees of the Corporation.

TABLE OF ANALYSES OF PUBLIC WATER SUPPLY DURING 1923
 BY THE PUBLIC ANALYST.
 (Results expressed in parts per 100,000).

Date 1923	Source	Total Solid Residue	Volatile Solid Residue	Chlorine	Nitrogen as Nitrates	Total Hardness	Free or Saline Ammonia	Albu- minoid or Organic Ammonia	Oxygen absorbed in 4 hours at 37° C.	Remarks
Jan. 22	Co.'s Main, Arundel St.	30.2	2.6	1.6	0.26	21.0	Nil	0.001	Nil	Bright and clear. The analysis shews that the water is in good condition from a Chemical point of view.
Feb. 19	do.	30.0	3.0	1.7	0.28	20.0	0.0005	0.003	0.026	do.
Mar. 19	do.	30.0	2.0	1.6	0.38	20.8	0.0008	0.004	0.047	do.
April 23	do.	30.1	3.0	1.7	0.36	20.2	0.001	0.003	Nil	do.
May 14	do.	30.3	3.3	1.7	0.28	20.4	0.001	0.002	Nil	do.
June 19	do.	31.0	4.0	1.7	0.33	20.4	Nil	0.001	Nil	do.
July 12	do.	30.0	3.0	1.6	0.33	21.6	Nil	0.001	Nil	do.
Aug. 20	do.	30.1	1.7	1.7	0.28	19.5	0.003	0.001	Nil	do.
Sept. 20	do.	29.9	4.0	1.7	0.33	20.0	0.001	0.002	Nil	do.
Oct. 29	do.	29.8	3.7	1.7	0.28	20.0	0.0005	0.003	0.026	do.
Nov. 26	do.	28.5	2.5	1.6	0.28	20.6	0.001	0.001	Nil	do.
Dec. 10	do.	30.1	2.5	1.7	0.29	21.0	0.001	0.001	0.026	do.

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