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"SALUS POPULI SUPREMA LEX."



REPORT

ON

The Health of Portsmouth

For the Year 1924

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., HIGH STREET.

Health and Housing Committee

1923-24

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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 :

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*MISS M. E. HANDLEY

*MISS A. KNIGHT

*MISS L. CUDLIPP

*MRS. M. SMEATON

First Asst. Clerk : L. C. ROGERS.

Asst. Clerk : W. R. RICHES.

Port Sanitary Inspector : A. YATES.

Disinfector : 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.)

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MISS L. LAMB MISS V. F. WARDLAW
*MISS G. M. MITCHELL

Secretary :

*MISS E. HEALEY

Almoner :

MISS F. K. M. BONE

Child Welfare Centres.

Medical Officer :

FRANCES HERON-WATSON, M.B., Ch.B., D.P.H.

Langstone Hospital.

Matron .. MISS J. S. BROWN.

Municipal Maternity Hospital.

Medical Officer :

FRANCES HERON-WATSON, M.B., Ch.B., D.P.H.

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 for 1924.

*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 1924.

The shortage of houses is still the condition most urgently needing attention. Various difficulties have caused delay in the provision of re-housing accommodation on the Voller Street Area.

The work of the Health Department has been much restricted during this year owing to illness of members of the Staff.

I have the honour to be, Gentlemen,

Your obedient servant,

A. MEARNS FRASER, M.D.

Medical Officer of Health.

SUMMARY FOR 1924.

Civil Population (estimated to middle of 1924) 232,000

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 ...	52,161
Rateable Value ...	£1,233,476
Sum represented by a Penny Rate ...	£4,900
Average number of persons in each house ...	4.7
Average number of persons per acre ...	31.4
Total Rainfall ...	36.59 inches, 915 millimetres

2.—EXTRACTS FROM VITAL STATISTICS.

Births.	TOTAL	MALE	FEMALE
Legitimate ...	4,834	2,482	2,352
Illegitimate ...	188	88	100
Birth Rate ...	20.1		
Number of Women dying in, or in consequence of Childbirth :			
From Sepsis ... 6		Other Causes ... 14	
Deaths of Infants under one year of age per 1,000 births :			
Legitimate ... 64	Illegitimate ... 159	Total ... 66	

COMPARISON WITH PREVIOUS YEAR.

	1924		1923	
	Population		Population	
	Total—249,900		Total—252,300	
	Civil —232,000		Civil —230,718	
	Number	Rate per 1000 living	Number	Rate per 1000 living
*BIRTHS	5022	20.1	5314	21.0
*DEATHS	†2977	12.5	2524	10.9
Principal Zymotic Diseases	105	0.44	141	0.61
Small-pox	—	—	—	—
Measles	16	0.06	39	0.16
Scarlet Fever	8	0.03	5	0.02
Diphtheria	18	0.07	46	0.19
Whooping Cough	38	0.16	9	0.03
Fever	4	0.01	11	0.04
Diarrhoea (under 2 years)	21	0.09	31	0.13
Pulmonary Tuberculosis ..	222	0.93	191	0.82
Cancer	336	1.44	290	1.25
Influenza	112	0.48	47	0.20
	Number	Rate per 1000 births	Number	Rate per 1000 births
Under 1 year of age ..	348	66	276	52

AVERAGE DEATH-RATE for previous Ten years (1914-1923) .. 13.2

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

†53 Weeks ending January 3rd, 1925.

TABLE I.

Table showing the Population, Marriages, Inhabited Houses, Births and Deaths, for the year 1924, 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
1924	†232,000	52,161	1,937	5,022	2,977	348	542
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	2,108	5,714	3,149	485	715
Average 10 years 1914-23	223,496	50,152	2,244	5,353	2,912	376	598

† Civil population only.

TABLE II.
Showing Births and Deaths during the four quarters ending 3rd January, 1925

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	1321	1013	119	..	1	1	26	10	81	5	21.0	17.6	0.02	0.02	0.45	0.17	1.41	3.8	90
2nd Quarter	1285	634	71	..	5	3	5	3	19	3	20.4	11.0	0.09	0.05	0.09	0.05	0.33	2.3	55
3rd Quarter	1309	561	58	3	5	2	5	2	3	5	20.8	9.8	0.09	0.03	0.09	0.03	0.05	3.8	44
4th Quarter	1258	701	94	1	5	1	1	3	9	6	18.6	11.3	0.08	0.01	0.01	0.06	0.15	4.8	75
TOTAL ..	5173	2909	342	4	16	7	37	18	112	19	20.2	12.4	0.07	0.03	0.16	0.08	0.48	3.7	66

TABLE III.

Table showing the Annual Birth-rate, Rate of Mortality, and Death-rates among children for the year 1924, 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
†1924	20.10	12.58	0.44	11.6	69	18.1
†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
Average of 10 years, 1914-23	22.78	13.26	0.85	12.9	70	20.9

† 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 1924.

NAME OF TOWN	Population as estimated by Registrar General, June, 1924.	Per 1,000 living		DEATH-RATES PER 1,000 LIVING.								Deaths of Children under 1 year of age to 1,000 Births
		Birth Rate	Death Rate	Small-pox	Measles	Scarlet Fever	Diphtheria	Whooping Cough	Enteric Fever	Diarrhoea & Enteritis under 2 yrs	Influenza	
1. WEST HAM	317,400	25.4	11.5	..	0.34	0.10	0.10	0.26	0.01	0.22	0.40	69
2. BIRMINGHAM	946,980	19.6	11.5	..	0.08	0.02	0.19	0.19	0.00	0.20	0.38	80
3. SHEFFIELD	525,000	18.6	11.5	..	0.21	0.02	0.03	0.06	0.02	0.15	0.35	88
4. CROYDON ..	196,000	18.3	11.6	..	0.23	0.01	0.04	0.06	0.01	0.11	0.51	55
5. CARDIFF ..	226,200	22.0	11.8	..	0.16	0.01	0.05	0.17	0.00	0.20	0.43	75
6. BRISTOL ..	386,200	18.4	12.0	..	0.04	0.02	0.16	0.02	0.01	0.10	0.56	69
7. LEICESTER	241,800	18.6	12.0	..	0.01	0.01	0.14	0.08	0.00	0.28	0.25	76
8. LONDON	4,576,505	18.7	12.1	..	0.29	0.03	0.12	0.11	0.01	0.16	0.36	69
9. PORTSMOUTH	232,000	20.2	12.4	..	0.07	0.03	0.08	0.16	0.01	0.08	0.48	66
10. NOTTINGHAM	270,300	19.4	12.7	..	0.01	0.01	0.04	0.14	..	0.24	0.53	84
11. NEWCASTLE	285,900	24.3	13.1	..	0.20	0.01	0.07	0.10	0.01	0.21	0.37	89
12. HULL ..	296,800	21.7	13.3	..	0.19	0.01	0.07	0.13	0.01	0.26	0.58	90
13. LIVERPOOL	851,800	24.4	13.3	..	0.17	0.07	0.08	0.21	0.00	0.39	0.22	102
14. STOKE-ON-TRENT	278,000	24.0	13.5	..	0.56	0.10	0.08	0.16	0.01	0.25	0.44	100
15. BOLTON ..	181,100	17.0	13.5	..	0.06	0.01	0.03	0.15	0.03	0.15	0.47	93
16. PLYMOUTH	192,900	18.2	13.6	..	0.13	0.01	0.11	0.16	0.01	0.07	0.39	78
17. MANCHESTER	755,000	19.9	13.7	..	0.49	0.04	0.08	0.15	0.01	0.26	0.44	97
18. SALFORD ..	243,700	19.2	14.0	..	0.61	0.01	0.07	0.26	0.02	0.38	0.44	119
19. LEEDS ..	471,600	18.8	14.1	..	0.09	0.04	0.05	0.18	0.01	0.19	0.86	102
20. BRADFORD	290,200	17.0	14.7	..	0.04	0.01	0.03	0.09	0.01	0.11	0.81	91

The above rates are based on the Registrar General's Returns for 1924.

TABLE V.

TABLE V.

Deaths Registered at several groups of ages from different classes of Diseases during the 53 weeks ending 3rd January, 1925.

CAUSE OF DEATH	AGES											DISTRICTS						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	Portsmouth	Portsea	Landport North	Landport Central	Mid-Southsea		Southsea
TOTALS	348	195	74	113	119	198	305	185	252	561	479	149	59	205	909	714	759	331	2977
CLASS I																			
General Diseases.																			
Enteric Fever ..	..	..	2	1	1	..	..	..	..	..	..	..	..	1	1	1	1	..	4
Measles ..	5	11	..	..	..	..	..	..	..	..	..	..	2	5	4	3	2	..	16
Scarlet Fever ..	1	3	2	2	..	..	..	..	..	..	..	..	..	..	4	..	3	1	8
Whooping Cough ..	15	22	1	..	..	..	..	..	..	..	..	..	..	3	10	17	6	1	38
Diphtheria ..	1	10	7	..	..	..	..	..	..	..	..	..	..	1	4	10	3	..	18
Influenza ..	4	10	3	5	4	13	9	4	11	27	21	1	..	1	32	35	27	17	112
Dysentery ..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..	..	1
Erysipelas ..	..	..	..	..	..	1	1	1	..	1	1	..	..	..	..	3	2	..	5
Other Epidemic Diseases	..	1	..	..	..	..	..	..	..	..	..	..	..	..	2	1	1	1	1
Pneumia, Septicæmia	..	..	..	..	3	..	1	1	..	..	..	..	..	..	1	..	..	..	5
Mycoses ..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..	1
Pulmonary Tuberculosis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	207
Acute Phthisis ..	1	2	5	49	34	54	34	10	7	9	1	1	7	3	71	37	61	22	15
Tuberculous Meningitis	..	..	1	3	3	3	5	..	..	..	..	..	..	3	3	4	5	..	18
Tuberculosis of Peritoneum and Intestines ..	4	7	6	..	..	..	1	..	..	..	..	..	..	..	7	7	4	..	24
Tuberculosis of Spinal Column	5	4	5	5	1	..	3	..	..	1	..	..	1	2	9	5	6	3	7
Tuberculosis of Joints	..	1	1	2	..	..	1	..	..	2	..	..	..	..	2	1	2	..	1
Tuberculosis of other Organs	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	1	1	..	3
Disseminated Tuberculosis	..	2	..	..	..	..	..	..	..	..	..	..	..	..	2	1	2	..	1
Rickets, Softening of Bones	..	1	..	..	..	2	1	..	..	..	..	..	..	..	..	1	3	2	8
Syphilis ..	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Other Venereal Diseases	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	..	..	33
Cancer of the Buccal Cavity	..	..	..	..	..	1	7	2	5	15	3	..	1	4	6	11	7	4	90
" " stomach, liver, &c	..	..	..	..	1	1	9	17	12	34	14	2	..	4	32	20	26	8	..
" " peritoneum, intestines and rectum ..	..	..	..	..	4	2	10	9	12	16	12	1	2	3	21	16	20	4	66

[illegible]

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 ..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	1	..	..	1	2
Acute Endocarditis ..	..	..	2	1	1	4	2	..	..	..	1	..	..	..	2	4	5	..	11
Organic Disease of the Heart	1	..	2	2	8	20	38	37	42	102	57	11	5	23	112	72	70	38	320
Angina Pectoris ..	..	..	..	..	..	..	1	..	2	2	1	..	..	..	3	2	1	..	6
Diseases of the Arteries,																			
Atheroma, Aneurysm ..	..	..	..	..	..	2	10	7	10	13	12	3	1	2	15	19	11	9	57
Embolism and Thrombosis ..	1	..	..	..	1	1	..	1	2	4	1	2	..	1	7	..	1	4	13
Diseases of the Veins ..	..	..	..	..	..	..	1	..	..	..	1	..	..	..	1	..	1	..	2
Diseases of the Lymphatic System	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1
Hæmorrhage ..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	1
CLASS IV.																			
Diseases of the Respiratory System.																			
Diseases of the Nasal Fosse ..	..	..	1	1	1	..	..	..	..	..	..	..	..	..	1	..	1	..	2
Diseases of the Larynx ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	2
Diseases of the Thyroid Body ..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	2	..	2
Bronchitis ..	15	10	..	2	1	2	20	13	25	65	42	17	1	16	60	54	61	20	212
Bronchiectasis, Bronchial																			
Catarrh ..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	1	1	..	2
Broncho-pneumonia ..	53	53	8	..	2	2	5	1	6	13	12	2	7	33	34	44	31	8	157
Pneumonia—Lobar & undefined	5	21	4	2	5	10	6	5	2	7	6	2	4	9	16	20	19	7	75
Pleurisy ..	..	..	..	2	..	..	1	..	1	..	1	..	..	..	3	2	..	..	5
Pulmonary Congestion ..	..	..	1	..	..	1	1	..	..	..	..	1	..	..	1	..	1	2	4
Asthma ..	..	1	..	..	2	1	4	..	5	2	2	..	..	..	7	6	3	1	17
Other Diseases of the Respiratory System ..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	..	..	1

CLASS V.

Diseases of the Digestive System.

Disease	No.	Males	Females	Total
Diseases of the Mouth & Annæxa ..	1	1	..	1
Diseases of Pharynx, Tonsillitis ..	1	1	..	1
Perforating Ulcer of Stomach ..	..	..	1	1
Other Diseases of Stomach ..	2	..	..	..
Diarrhoea and Enteritis ..	17	4	..	4
(under 2 years) ..	..	..	..	..
Diarrhoea and Enteritis ..	..	1	..	1
(over 2 years) ..	..	..	..	..
Other Intestinal Parasites ..	..	4	..	4
Appendicitis ..	3	2	3	5
Hernia, Intestinal Obstruction ..	1	1	..	1
Other Diseases of the Intestines ..	1	..	..	..
Cirrhosis of the Liver, ..	..	..	..	..
Biliary Calculi ..	..	..	..	..
Other Diseases of the Liver ..	1	..	..	1
Peritonitis ..	..	..	..	..
Other Diseases of the Digestive System ..	..	..	..	..

CLASS VI.

Non-Venereal Diseases of the Genito-urinary System and Annexa.

[illegible]

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	1	5	..	..	..	..	..	..	..	..	..	1	1	3	1	6
Puerperal Haemorrhage	2	..	..	..	..	..	..	..	..	2	..	..	..	2
Puerperal Fever	5	1	..	..	..	..	..	..	..	..	3	1	1	1	6
Puerperal Albuminuria and Convulsions	3	2	..	..	..	..	..	..	..	..	..	3	..	2	..	5
Puerperal Insanity	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1
CLASS VIII.																			
Diseases of the Skin and Cellular Tissue																			
Gangrene	1	1	..	..	2	..	..	..	..	3	1	..	4
Phlegmon : Acute Abscess	1	..	..	..	..	..	..	..	..	1	..	..	1
Diseases of the Integumentary System ..	2	..	..	2	..	..	..	1	..	..	1	..	..	..	2	..	3	1	6
CLASS IX.																			
Diseases of the Bones and of the Organs of Locomotion.																			
Diseases of the Bones	1	..	..	..	..	..	..	1	..	..	..	..	..	..	2	..	2
Diseases of the Joints	1	..	..	..	..	..	1	..	1
Other Diseases of the Locomotor System	1	..	..	..	..	..	..	..	..	1	..	1
CLASS X.																			
Malformations.																			
Congenital Malformations	26	..	..	..	..	..	..	..	..	..	..	..	1	..	10	5	9	1	26

SUMMARY OF TABLE V.

Class	DISEASES	Number of Deaths
I.	General Diseases	906
II.	Diseases of the Nervous System and of the Organs of Special Sense	301
III.	Diseases of the Circulatory System	413
IV.	Diseases of the Respiratory System	479
V.	Diseases of the Digestive System	130
VI.	Non-venereal Diseases of the Genito-urinary System and Annexa	125
VII.	The Puerperal State	20
VIII.	Diseases of the Skin and Cellular Tissue	11
IX.	Diseases of the Bones and of the Organs of Locomotion	4
X.	Malformations	26
XI.	Diseases of Early Infancy	140
XII.	Old Age	329
XIII.	Affections produced by external causes	89
XIV.	Ill-defined Causes	4

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 1924. (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
1924								
March 31st ..	43	0.74	240	4.13	69	1.18	1013	17.6
June 30th ..	22	0.37	93	1.60	52	0.89	634	11.0
September 30th ..	24	0.41	50	0.86	49	0.84	561	9.8
December 31st ..	16	0.27	96	1.65	52	0.89	701	11.3
Totals ..	105	0.44	479	2.06	222	0.95	2909	12.4

* 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.

INFECTIOUS DISEASES.

On the whole infectious disease was less prevalent in 1924 than in the previous year. There were notified 501 cases of diphtheria, of which 18 proved fatal, as against 693 cases with 46 deaths in 1923 ; this is the smallest number of deaths recorded in the Borough from diphtheria since the year 1895. Only 576 cases of scarlet fever were notified as against 709 in the previous year and there were 8 deaths from this disease. Enteric or typhoid fever was slightly more prevalent, 49 cases being notified as against 42 in 1923, but there were only 4 deaths as against 11 in the previous year. No case of small-pox occurred, although on several occasions I was called in by medical men to give an opinion on patients who presented symptoms suspicious of this disease.

During the year 22 cases of encephalitis lethargica were notified and amongst these there occurred 7 deaths ; in 1923 there were 10 cases with 5 deaths. These figures are too small to draw any decided conclusions from, but they tend, for what they are worth, to show that this disease was of a somewhat milder type than in the previous year, the death rate being 33 per cent. as against 50 per cent. in the previous year. 9 cases occurred amongst males and 13 amongst females. So far very little is known as to the cause of this disease ; enquiries have elicited the fact that in 8 cases there had been within 2 years a previous history of a severe attack of influenza, and in four cases, 3 of them under 17 years of age, there had been a fall or injury to the head a short time previously. This disease seems to attack persons of any age and the ages in the 22 cases notified varied from under two years to 83 years.

No cases were notified of cerebro-spinal meningitis or acute poliomyelitis. There were 52 cases of ophthalmia neonatorum, complete recovery took place in all of these except one in which the loss of the sight of one eye resulted.

Of the non-notifiable infectious diseases there was a decline in the prevalence of measles, only 16 deaths being registered from this disease as against 39 in the previous year, on the other hand the deaths from whooping cough increased from 9 to 38. Influenza was rather prevalent during the early part of the year; it was responsible for 90 deaths during the first four months ; during the whole year there were 112 deaths compared with 47 in 1923.

The following table shows the number of notifications of each disease during the year :—

NOTIFIABLE DISEASES DURING 1924.

Disease				Cases Notified	Admitted to Hospital	Total Deaths
Diphtheria	..	..	..	501	477	18
Scarlet Fever	..	..	..	576	718	8
Enteric Fever	..	..	..	49	29	4
Puerperal Fever	..	..	..	11	1	6
Pneumonia	..	..	..	61	1	75
Cerebro-Spinal Meningitis	..	..	..	..	..	..
Acute Poliomyelitis	..	..	..	..	..	..
Encephalitis Lethargica	..	..	..	22	4	7
Erysipelas	..	..	..	58	..	5
Ophthalmia Neonatorum	..	..	..	52	..	..
Malaria	..	..	..	3	..	..
Dysentery	..	..	..	..	..	1
Tuberculosis : (a) Pulmonary	M.			269	117	112
	F.			287	96	110
	Total			556	213	222
(b) Non-Pulmonary	M.			75	19	33
	C.			51	15	21
	Total			126	34	54

DEATHS FROM NOTIFIABLE DISEASES, 1924.

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 ..	1		1		2		4		3		6		1		..		..		..		..		..		18	
Scarlet Fever ..	1		..		2		1		..		2		..		2		..		..		..		..		8	
Enteric Fever ..	..		..		..		..		..		1		1		1		1		..		..		..		4	
Puerperal Fever ..	..		..		..		..		..		..		..		..		5		1		..		..		6	
Pneumonia ..	5		12		6		2		1		2		2		2		5		10		13		15		75	
Erysipelas ..	..		..		..		..		..		..		..		..		..		1		2		2		5	
Dysentery ..	..		..		..		..		..		..		..		..		..		..		..		1		1	
Encephalitis Lethargica ..	..		1		..		..		..		1		..		2		1		1		1		..		7	
Tuberculosis— Pulmonary ..	..	1	1	..	..	1	..	..	..	..	..	3	3	7	17	38	34	23	35	21	5	6	112	110		
Non-pulmonary ..	7	2	2	..	2	4	2	..	2	2	4	3	3	2	3	1	4	3	..	3	2	1	2	33	21	

TABLE VII.

Showing the number of Deaths in the Years 1861 to 1924,
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	63	36	18	52	314	1.55
1916	*197843	..	15	3	52	46	10	65	181	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
1924	*232000	..	16	8	18	38	4	21	105	0.44

* Civil population only.

TABLE VIII.
VACCINATION RETURNS FOR PAST TWENTY-TWO 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 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	5327	4243	28	..	239	40	86	15	2	674
1924	2608	2037	9	..	128	30	29	8	7	360

(to June)

TABLE IX.

VACCINATION RETURNS—1st January to 30th June, 1924.

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, 1924	Number of these Births duly entered by 31st Jan., 1925 in Columns 1, 2, 4 and 5, of the Vaccination Register Birth List Sheets, viz.:				Number of these Births which on 31st January, 1925, remained unentered in the Vaccination Register on account (as shown by Report Book) of				Number of these Births remaining on 31st January, 1925, 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 Insuscep- tible of Vaccin- ation	Col. 2 Had Small- Pox	Col. 4 Number in respect of whom Certifi- cates 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 appraised	Removal to places un- known, or which cannot be reached; and cases not having been found	
1	2	3	4	5	6	7	8	9	10	11
1. North End and Buckland	602	449	5	..	98	28	9	10	2	1
2. Kingston and East Southsea	473	352	1	..	87	26	5	..	1	1
3. Portsea and Landport	751	619	1	..	71	41	7	6	3	3
4. Portsmouth and Mid-Southsea	782	617	2	..	104	33	9	13	2	2
Totals	2608	2037	9	..	360	128	30	29	8	7
VACCINATION OF CHILDREN whose Births were registered in this District from Jan. 1st to Dec. 31st, 1923, inclusive.										
1. North End and Buckland	1341	1025	5	..	229	52	7	21	2	..
2. Kingston and East Southsea	950	733	8	..	130	51	4	22	1	1
3. Portsea and Landport	1459	1198	4	..	137	87	11	14	7	1
4. Portsmouth and Mid-Southsea	1577	1287	11	..	178	49	18	29	5	..
Totals	5327	4243	28	..	674	239	40	86	15	2

SCARLET FEVER.—576 cases of scarlet fever were notified during the year, and of these 8 proved fatal ; 518 of the cases (or 89 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 1924.

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	21	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
1924	576	*291	8	1.38
Total (41 years)	28,307	Mean 349	576	Mean 2.18

* 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 1924.

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
1924	518	6	1.15
(Total 41 years) ..	16,241	271	Mean 1.66

DIPHTHERIA.—501 cases of Diphtheria were notified during the year, and of these 18 proved fatal ; 477 cases, or 95.2 per cent. were isolated and treated at the Milton Hospital ; amongst these the death-rate was 2.7 per cent.

TABLE XII.

Table showing the number of cases of DIPHTHERIA notified, the number of Deaths, and the percentage of Deaths to cases notified, for the years 1884 to 1924.

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
1924	501	215*	18	3.59
Total (41 years)	17,975	Mean 213	2175	Mean 12.10

* 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 1924

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
1924	477	13	2.72
Total (41 years) ..	11,290	1027	Mean 9.09

ENTERIC FEVER.—49 cases of Enteric Fever were notified during the year, and four 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 1924.

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
1924	49	21*	4	8.16
Total (41 years)	11,571	Mean 164	1,376	Mean 11.89

* 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 1924.

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
1924	29	4	13.80
Total (41 years) ..	2 692	29	Mean 10.80

FOOD-POISONING.—During the middle of November, a number of cases of food poisoning occurred amongst the guests attending the Mayor's Banquet. The symptoms in many cases were severe, and three subsequently developed paratyphoid B, but fortunately all recovered and there were no deaths. The result of my investigations into the outbreak is given in the following special report :—

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

In accordance with your instructions I have made enquiry into the circumstances attending the cases of illness, some slight and some severe, which occurred amongst those present at the Mayoral Banquet on November 10th last.

A letter was sent to all the guests asking them to be kind enough to indicate, on an enclosed form, the articles of which they partook at the banquet, and also to notify me of any indisposition or illness from which they subsequently suffered. I have now received a reply from all those present ; in the case of three, who were too ill to write, their medical attendants have kindly supplied me with the required information.

Out of 135 persons at the banquet, no fewer than 83, or 61.5 per cent. suffered from some degree of illness within the next few days. The symptoms generally were those of acute gastro-enteritis. In a few cases all that was experienced was a feeling of nausea, but the majority suffered from one or more of the following—diarrhoea, colic, vomiting, headache, feverishness and malaise. In some cases these symptoms persisted for several days ; in a few cases they were so severe and prolonged as to cause collapse, and in three cases there developed definite attacks of paratyphoid fever of a severe type.

In the Appendix, at the end of this Report, is set out a list of guests (indicated by numbers) who attended the banquet ; the articles on the menu of which they partook ; and, in respect of those who were ill, an account of the symptoms from which they suffered.

An analysis of these returns shows that 5 persons were ill on the night of November 10th, the evening of the banquet ; in 35 persons the onset of the illness was November 11th ; in 31 persons the onset of illness was November 12th ; 6 persons were attacked on November 13th ; three on November 14th ; one on November 24th, and one on November 28th.

Of the three persons, Nos. 127, 132 and 135, who suffered from paratyphoid fever, one (No. 127) was attacked with vomiting on November 12th, after that he felt somewhat indisposed until November 27th, when a doctor was called in, the temperature reached 104° F., and he was found to be suffering from paratyphoid B.

No. 132 felt no ill-effects until November 28th, when he suffered from severe headache and feverishness, the temperature reaching 105° F., and a blood test subsequently showed the disease to be paratyphoid B.

No. 135 suffered from severe headache, commencing on November 14th, and continued in ill-health until November 26th, when he was compelled to take to bed with high temperature. In this case also a blood test showed the patient to be suffering from paratyphoid B.

The nature of the symptoms exhibited by those attacked, and the length of time which elapsed in the majority of cases before the onset of illness, indicate that the poison was bacterial and not a mineral irritant which might have accidentally gained access to some article on the menu.

From a summary of the returns made by the guests who were ill it appears that—

of the 83 who were ill,	82 or 98.8%	partook of oysters
"	81 .. 97.5%	" soup
"	41 .. 49.4%	" soles
"	37 .. 44.5%	" whitebait
"	71 .. 85.5%	" lamb cutlet
"	53 .. 63.8%	" York ham
"	46 .. 55.3%	" spinach
"	63 .. 75.9%	" sorbet
"	79 .. 95.2%	" pheasant and salad
"	40 .. 48.2%	" pears and cream
"	22 .. 26.5%	" punch jelly
"	38 .. 45.8%	" glace Fedora
"	43 .. 51.8%	" dessert
"	77 .. 92.8%	" coffee
"	74 .. 89.1%	" wines
"	53 .. 39.7%	" spirits
"	19 .. 22.9%	" aerated waters

The only guest (No. 56) who did not have oysters, yet was subsequently ill, was not taken ill until 14 or 15 days after the banquet, the symptoms being an attack of diarrhoea, lasting for five days. Owing to the long interval between the banquet and the illness, it appears probable that this may be attributable to some other cause than the banquet, and if we omit this case, it would mean that 100 per cent. of those who were ill had taken oysters at the banquet.

Further, out of the 83 who were ill—

2	at least did not take	soup
38	"	soles
44	"	whitebait
11	"	lamb cutlet
25	"	York ham
31	"	spinach
16	"	sorbet
5	"	pheasant
37	"	salad
39	"	pears and cream
51	"	punch jelly
34	"	glace Fedora
38	"	dessert
5	"	coffee
9	"	wines
48	"	spirits
60	"	aerated waters

It is obvious from the foregoing tables that all articles on the menu can be exonerated from blame except oysters and soup. Further, seeing that 82 or 73.9 per cent. of the guests who took oysters were ill, and only 81 or 60.9 per cent. of those who took soup were ill, suspicion strongly points to oysters being the offending article. Moreover, as the evidence indicates that the cause of the illness was bacterial, I think the soup may be excluded as a cause, because I have seen both the caterer and the cook who prepared the banquet, and both assure me that the stock of the soup had been boiled on several separate occasions, and that the soup was also brought to boiling point shortly before dinner was served. Such a temperature would destroy all bacteria, and may be said definitely to exclude soup as the cause of the illness.

As the evidence so strongly pointed to oysters as the offending article, I made special enquiries in regard to these. According to the information which has been supplied to me, the following are the facts: The caterers obtained 400 oysters from a firm of fishmongers; the latter purchased them from a fisherman who supplied 200 on November 6th and 200 on November 7th. As these proved insufficient, a further dozen were purchased from a shop on the evening of the banquet. The fisherman who supplied these oysters informed me that the whole were dredged from oyster beds in the Solent, and were collected from two places, one off the Warner Bank, near the Warner Lightship, and the other off the Boyne Bank, which lies about half a mile off Southsea Castle.

The fisherman subsequently procured for me oysters dredged from both the above places, and at my request the Fishmongers' Company kindly had them examined and reported upon by Professor J. W. H. Eyre, M.D., F.R.S. Edin., Director of the Bacteriological Department, Guy's Hospital, and Bacteriologist to the Fishmongers' Company. The first sample submitted consisted of oysters dredged from off the Boyne Bank in the Solent, and the report on these was that only 40 per cent. were clean; out of the ten oysters examined, six contained *bacillus coli*, and one contained *bacillus enteritidis sporogenes*. The sample of oysters from the Warner Bank gave a much better result, and as only one was found to contain *bacillus coli*, were reported to be 90 per cent. clean. The bacteriological result obtained in the case of the oysters from the Boyne Bank indicates, according to the standard now generally adopted, that such oysters are not fit for consumption, and would not be allowed upon the London markets. Oysters which a bacteriological examination showed to be 90 per cent. clean, such as those from the Warner Bank, would, if topographical conditions were satisfactory, be considered fit for the markets.

It is unfortunate, as so often happens in cases of food poisoning, that it was impossible to have analysed part of the suspected food which was actually consumed, and that the best which could be done was to submit for analysis some of the food—in this case oysters—procured from the same source as that from which the supply for the banquet was taken. In this case the oysters examined were not taken until some weeks after the banquet, and owing to varying conditions of tide, sewage discharge, and other reasons, there might readily be a considerable difference in the purity of the oysters taken at these different times. The bacteriological results obtained do, however, afford evidence that oysters taken from the Boyne Bank are liable to pollution, and therefore it is possible that the ones taken from this source and supplied at the banquet were also polluted.

The facts which have been elicited bear a striking resemblance to two similar outbreaks which occurred in 1902 at the Mayoral Banquets at Winchester and Southampton, in both of which cases the conclusion arrived at was that the illness was undoubtedly due to oysters supplied at those banquets. At the Winchester banquet, out of 134 guests, 62, or 46.3 per cent. were subsequently taken ill; nine of these developed typhoid fever, which in four cases proved fatal. At the Southampton banquet, 55, or 41.3 per cent. of the 132 guests were taken ill, and 11 (of whom one died) developed typhoid fever.

At the recent Portsmouth banquet 83, or 61.5 per cent. of the 135 guests were taken ill, and three developed paratyphoid fever. The same number of oysters, namely three, was supplied to the guests at each of the above banquets. (At the Winchester banquet a guest who ate only one oyster subsequently died from typhoid fever.) The oysters supplied at the Winchester and Southampton banquets had been stored in polluted

beds ; the oysters supplied at the Portsmouth banquet were brought to the table direct, without having been relaid.

Various other articles, such as the soup, the spinach, and the water used in the kitchen, have been suggested as having been responsible for the illness. I cannot find evidence to support any of these theories, and to my mind the only reasonable explanation of the illness is that it was caused by oysters which had been dredged from polluted sources.

If, as I think must be admitted, the above conclusion be correct, the question naturally arises as to how such outbreaks can be prevented in the future, including, of course, individual cases of illness which may arise from time to time in the Borough from the same cause. The remedy appears to lie with the individual, and not with the Health Authority, for there is no legal obstacle to the sale in the Borough of oysters dredged from any place in the neighbourhood of Portsmouth, with the single exception that under the provisions of the Portsmouth (Shellfish) Regulations, 1918, it is forbidden to sell oysters taken from Langston Harbour, unless they have been relaid in the Gutner layings, in accordance with conditions specified in a permit granted by the Port Medical Officer—a regulation the enforcement of which obviously presents very great difficulties.

The one safeguard which the public has, is to purchase oysters only from firms which guarantee their oysters to have been supplied from layings which have been inspected and approved by a competent authority. I understand that there is no difficulty in retail shops obtaining oysters from a perfectly safe source, because, owing to the excellent work which has been carried out by the Worshipful Company of Fishmongers, most of the principal oyster layings in the country are now kept under constant and close observation, and are maintained in a manner which leaves nothing undone to secure the purity of the supply. Any oysters therefore taken from layings which the Fishmongers' Company have approved for the London markets, may be consumed with every probability that they are wholesome ; if, however, oysters are purchased from unknown sources, there is always the risk that they have been dredged from places which are liable to constant or intermittent sewage pollution, and are consequently a danger to health.

I am informed that oysters taken from the same source as that from which the oysters consumed at the banquet were taken, had been for some time previously sold and consumed in the Borough without any known ill effects. If this be so, it is only in keeping with past experience. For instance, in the outbreaks referred to at Winchester and Southampton, similar oysters to those consumed at these mayoral banquets had been on the market for many years without apparently causing any marked amount of disease. This is readily explained on the ground that the polluting agency, usually sewage, may at certain times be more concentrated, or contain more virulent organisms, or the polluting agency may only reach the oyster beds under certain tidal conditions. Oysters can be regarded as a safe article of diet only when they have been taken from a source which repeated bacteriological examinations and periodical inspection show to be free from not only sewage pollution, but from the reasonable risk of sewage pollution.

I have the honour to be, Gentlemen,

Your obedient servant,

A. MEARNS FRASER, M.D.,

Medical Officer of Health.

GUESTS	REMARKS																	
	Oysters	Turtle Soup	Soles Vin Blanc	Whitebait	Lamb Cutlet	York Ham	Spinach	Sorbet Imperial	Roast Pheasant	Compote of Pears & Cream	Punch Jelly	Glacé Fedora	Dessert	Coffee	Wines	Spirits	Aerated Waters	
32	++	++		+	++	+			++	++	?			++	++	+	17	No illness.
33	++	++		+	++	+	+		++	++	+			++	++	+		No illness.
*34	++	++	+		++	+	+	++	++	++				++	++			Severe diarrhoea for about five days. Onset November 13th.
*35	++	++	+	+	++	+	+	++	++	++				++	++	+		Colic, feverishness, nausea, abdominal distension, slight headache, lasting 4 days.
*36	++	++	+	+	++	+	+	++	++	++	+	+		++	++	+		Onset forenoon, November 11th.
*37	++	++	+	+	++	+	+	++	++	++	+			++	++	+		Feeling of sickness for 27 hours, onset afternoon of November 12th.
																		Severe diarrhoea and cramp in stomach, faintness and profuse perspiration on lasting nearly a week, and followed by general lassitude and cramp in abdomen.
																		Onset November 12th.
38	++	++	+	+	++	+	+	++	++	++	+	?	++	++	++	+	++	No illness.
*39	++	++	+	+	++	+	+	++	++	++	+	?	++	++	++	+	++	Slight indisposition for 3 days, sickness on Nov. 12th. Onset Nov. 11th.
*40	++	++	+	+	++	+	+	++	++	++	+	?	++	++	++	+	++	Severe stomach pain for 4 hours, also sickness, cramp and retching. Onset 7:30 on November 11th.
*41	++	++	+	+	++	+	+	++	++	++	+	?	++	++	++	+	++	Severe diarrhoea from November 13th-16th.
42	++	++	+	+	++	+	+	++	++	++	+	?	++	++	++	+	++	No illness.
43	++	++	+	+	++	+	+	++	++	++	+	?	++	++	++	+	++	No illness.
44	++	++	+	+	++	+	+	++	++	++	+	?	++	++	++	+	++	No illness.
45	++	++	+	+	++	+	+	++	++	++	+	?	++	++	++	+	++	No illness.
*46	++	++	+	+	++	+	+	++	++	++	+	?	++	++	++	+	++	No illness.
*47	++	++	+	+	++	+	+	++	++	++	+	?	++	++	++	+	++	Severe diarrhoea and pains in stomach, headache and desire to sleep, constantly sick after food, lasting 15 days. Onset November 11th.
48	++	++	+	+	++	+	+	++	++	++	+	?	++	++	++	+	++	No illness.
*49	++	++	+	+	++	+	+	++	++	++	+	?	++	++	++	+	++	Suffered from headache and feverishness from November 11th-14th.
*50	++	++	+	+	++	+	+	++	++	++	+	?	++	++	++	+	++	Severe diarrhoea, nearly collapsed on evening of 13th. Lasted 7 days from evening of November 12th to November 18th.
*51	++	++	+	+	++	+	+	++	++	++	+	?	++	++	++	+	++	Slight headache, diarrhoea and feverishness, lasting 4 days. Onset, morning November 13th.
*52	++	++	+	+	++	+	+	++	++	++	+	?	++	++	++	+	++	Continuous diarrhoea for 24 hours with colic and sickness and malaise; felt unwell for several days following. Onset November 11th.
*53	++	++	+	+	++	+	+	++	++	++	+	?	++	++	++	+	++	Abdominal pain, temp. 101.5°, rapid pulse, slight light-headedness, severe diarrhoea, lasted 3 days. Onset evening of November 12th.
*54	++	++	+	+	++	+	+	++	++	++	+	?	++	++	++	+	++	Rather severe diarrhoea and sickness, slight headache, feverish, lasting 3 days and felt queer for 3 or 4 days after this. Onset, evening of Nov. 12th.
*55	++	++	+	+	++	+	+	++	++	++	+	?	++	++	++	+	++	Severe sickness on Wednesday afternoon, followed by three days severe headache and diarrhoea, slight diarrhoea for following 10 days. Onset afternoon November 12th.
*56	++	++	+	+	++	+	+	++	++	++	+	?	++	++	++	+	++	Acute attack of diarrhoea with headache and sickness, lasting five days. Onset 24th November. (Only person who was ill, but did not eat oysters).
57	++	++	+	+	++	+	+	++	++	++	+	?	++	++	++	+	++	No illness.
58	++	++	+	+	++	+	+	++	++	++	+	?	++	++	++	+	++	No illness.
59	++	++	+	+	++	+	+	++	++	++	+	?	++	++	++	+	++	No illness.
60	++	++	+	+	++	+	+	++	++	++	+	?	++	++	++	+	++	No illness.
61	++	++	+	+	++	+	+	++	++	++	+	?	++	++	++	+	++	No illness.
*62	++	++	+	+	++	+	+	++	++	++	+	?	++	++	++	+	++	Headache, sickness and diarrhoea, lasting 48 hours. Onset November 11th.
*63	++	++	+	+	++	+	+	++	++	++	+	?	++	++	++	+	++	Four days severe diarrhoea, headache, sickness, feverishness and collapse, one week slight illness. Onset November 12th.

GUESTS	REMARKS																		
	Oysters	Turtle Soup	Soles Vin Blanc	Whitebait	Lamb Cutlet	York Ham	Spinach	Sorbet Imperial	Roast Pheasant	Kompot Salad	Compo of Pears & Cream	Punch Jelly	Glace Pedora	Dessert	Coffee	Wines	Spirits	Aerated Waters	
*64	+	+			+			+	+	+	+	+	+	+	+	+	+	+	Severe stomach trouble, headache and diarrhoea for a few days, the second day the worst. Onset November 11th.
*65	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	Severe diarrhoea from November 13th to 16th, headache and depression. Not recovered till December 8th.
*66	+	+	+		?	+		+	+	+	+	+	+	+	+	+	+	+	Suffered for 48 hours with diarrhoea, pain in stomach, exhaustion. Onset mid-night November 14th.
67	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	No illness.
68	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	No illness.
69	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	No illness.
70	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	No illness.
*71	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	Feverishness and sickness from noon till midnight on November 12th.
72	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	No illness.
73	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	No illness.
74	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	No illness.
75	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	No illness.
*76	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	Ill for two weeks, severe sickness, headache, feverishness, collapse. Onset forenoon November 13th.
*77	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	Headache, sickness and cramp, lasting three days. Onset, morning Nov. 11th.
*78	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	Two days severe pains in stomach, pains in head and feeling of nausea. Onset, night of November 10th.
*79	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	Diarrhoea for two days. Onset midnight of November 10th.
*80	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	Felt a little queer after eating.
*81	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	Sickness and pains in stomach for four or five days. Doctor called in. Onset, forenoon of November 11th.
*82	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	Slight diarrhoea lasting about a week. Onset November 14th.
*83	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	Severe colic, diarrhoea and partial collapse for four days. Onset 1 a.m. Nov. 12th.
*84	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	Giddy and violently sick for 15 minutes. Onset afternoon, November 12th.
*85	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	Severe pain, abdominal distension, headache. Doctor consulted. Onset evening of November 11th.
*86	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	Three days with slight diarrhoea, colic and headache. Onset 5 p.m. Nov. 11th.
*87	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	Vomited on evening, about 11.30 p.m., of Nov. 10th. No further ill-effects.
*88	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	Severe vomiting all night of Nov. 12th, followed by weakness and shakiness next day. Onset 10.30 p.m. November 12th.
89	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	No illness.
*90	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	Diarrhoea all day of November 12th.
*91	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	Severe diarrhoea and sickness from 4 p.m. November 11th to 10 a.m. Nov. 12th.
*92	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	Acute diarrhoea and vomiting for two days, followed by several days indisposition. Onset 5 p.m. November 12th.
*93	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	Severe stomach pains, followed by diarrhoea and sickness, with feverishness for three days, followed by a week feeling seedy. Doctor called in. Onset noon, November 11th.
*94	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	Severe diarrhoea, sickness and feverishness for 12 hours. Onset 10.30 p.m., November 10th.
95	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	No illness.
*96	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	Biliousness and lassitude for three days, then violent diarrhoea for three days. Onset November 11th.
*97	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	Violent sickness for six hours. Onset 5 p.m. November 12th.
*98	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	Slight illness, diarrhoea and sickness for 26 hours. Onset 4 p.m. November 12th.
*99	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	Diarrhoea for five days. Onset November 12th.
*100	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	18 hours severe diarrhoea and sickness. Onset 12.30 November 12th.
*101	+	+	+		+			+	+	+	+	+	+	+	+	+	+	+	A little malaise on Tuesday and Wednesday, Nov. 11th, 12th, but not worth recording.

GUESTS	Oysters	Turtle Soup	Soles Vin	Whitebait	Lamb Cut	York Ham	Splach	Sorbet In	Roast Ph	Compo	Punch Je	Glaze Po	Dessert	Coffee	Wines	Spirits	Aerated	
102	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	102
*103	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	103
104	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	104
105	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	105
*106	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	106
*107	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	107
108	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	108
*109	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	109
110	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	110
*111	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	111
*112	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	112
*113	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	113
*114	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	114
*115	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	115
*116	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	116
*117	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	117
*118	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	118
119	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	119
*120	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	120
121	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	121
*122	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	122
123	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	123
*124	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	124
125	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	125
*126	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	126
*127	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	127
*128	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	128
*129	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	129
130	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	130
*131	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	131
*132	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	132
133	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	133
*134	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	134
*135	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	135

No illness. Slight diarrhoea and sickness for three days. Onset 4 a.m., November 11th.

No illness.

No illness. Severe diarrhoea, headache and sickness for three days. Onset November 12th.

Severe sickness and diarrhoea for two days. Onset midday, November 12th.

No sickness.

Ill for one week with gastric troubles, flatulence and headache. Onset 3 a.m., November 11th.

No illness.

Slight diarrhoea for 1½ days, followed by a rash on legs and arms. Onset Nov. 11th.

Slight diarrhoea and indigestion for 12 hours, onset night of November 11th (illness not attributed by patient to the banquet).

Diarrhoea for three weeks, spots on arms and abdomen.

Diarrhoea, colic and headache, not severe, for about 10 days. Onset Nov. 11th.

Severe illness for some days, diarrhoea, colic, headache, violent sickness. Onset afternoon November 12th.

Colic and feverishness for three days. Onset early morning, November 12th.

Slight diarrhoea for a few hours. Onset morning, November 13th.

Severe sickness and cramp in limbs for two days, shaky for two weeks after. Onset afternoon, November 11th.

Biliousness and stomach disorder, lasted for one week. Onset November 11th.

Diarrhoea continued for one week. Onset morning of November 12th.

No illness.

Severe diarrhoea, sickness and collapse, lasting three or four days. Onset, noon November 11th.

No illness. Giddiness and weakness, followed next day by violent sickness and severe diarrhoea. Doctor called in. Illness lasted 11 days. Onset 4 p.m., November 12th.

Sickness and continuous retching, lasting 24 hours. Onset morning Nov. 12th.

Slight sickness, lasting four days, with cramp and collapse. In bed four days. Temp. 97.6-98. Onset afternoon, November 12th.

Violently sick at 9.45 p.m. November 12th; feeling seedy for some time after; called in doctor Nov. 27th; on Dec. 1st temp. was 102, sent to bed.

Continued high temp. 104° and fever. Blood test—Paratyphoid B.

Acute diarrhoea, slightly feverish, lasting about 20 days. Onset morning, November 11th.

Slight attack of diarrhoea lasting for a few hours. Onset afternoon Nov. 12th.

No illness.

Slight persistent diarrhoea and sickness with pains in back for two days. Onset 6 p.m. November 12th.

On November 28th severe headache, night sweating, loss of energy. December 1st temp. 103.4°, furred tongue. December 2nd temp. 105°, December 3rd temp. 104.3°; delirious; Temp. remained up to 102° and 103°. Blood test—negative Widal enteric, positive Paratyphoid B.

No illness.

Severe headache for several days, commencing on November 14th. On November 26th confined to bed, slight diarrhoea, severe headache, temp. 102°. Nov. 27th to Dec. 1st temp. varying 100°-102°, pulse 90, furred tongue, depression. December 3rd blood test, negative Widal enteric, positive Paratyphoid B.

* Guests who suffered ill-effects after the Banquet.

TUBERCULOSIS.—This year has seen a rise in the number of deaths from tuberculosis, the total deaths from pulmonary tuberculosis being 222, or 31 more than in the previous year. There has also been an increase of 17 deaths from non-pulmonary tuberculosis. The death rate from pulmonary tuberculosis is 0.93 per 1,000 living which is higher than any rate since 1918 when it was 1.28. The total number of primary notifications of pulmonary tuberculosis during the year was 404 as compared with 386 in 1923.

The details of the work in connection with tuberculosis will be found in the following tables. The total number of patients examined at the Dispensary was 652, an increase of 117 over the previous year ; 324 patients were diagnosed as suffering from definite tubercular disease. During the year 93 patients were admitted to Langstone Hospital and 56 children to Beach Lodge. 83 patients were admitted to the Tuberculosis Wards at Milton Hospital, and 57 were sent to Sanatoria and Training Colonies outside the Borough. Included amongst the latter were 11 crippled children sent to the Lord Mayor Treloar Hospital.

We are again indebted to Sir Henry Gauvain who has periodically visited the Dispensary and assisted us in the treatment of tuberculous children.

The duties in connection with the treatment of tuberculous patients, both at Langstone Hospital and at the Dispensary, have been carried out by Dr. Rowan Revell. The replacing of Langstone Hospital by a modern sanatorium is under consideration but nothing definite has yet been decided upon.

TABLE XVI.

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

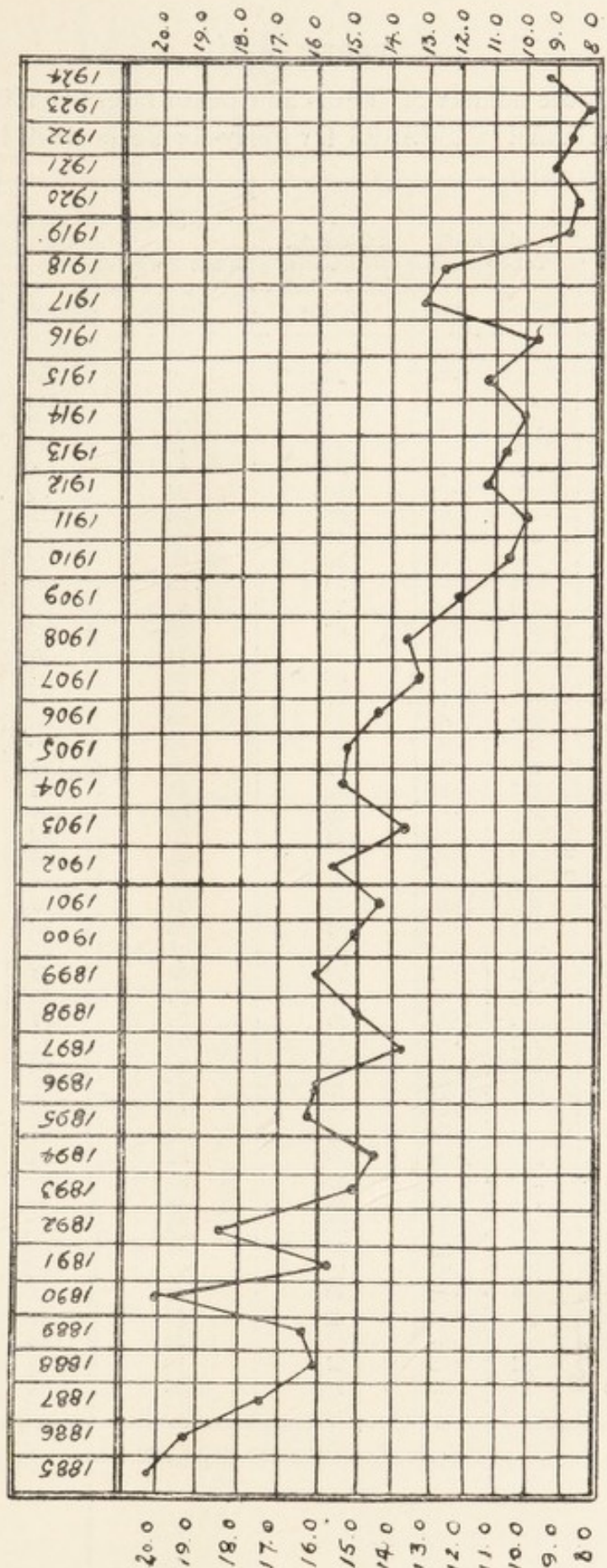


TABLE XVII.

Table showing the number of Deaths and Death-rates per 1000 living from
TUBERCULAR DISEASES for Forty-six Years (1879 to 1924).

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
*1924	222	0.93	18	36	54	.23

* Calculated on estimated civil population.

TABLE B.

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

	Tubercular	Not Tubercular	Pre-Tubercular	Diagnosis Incomplete	Observation	Total
Adults ..	253	110	1	1	6	371
Children ..	71	155	52	—	3	281
TOTAL ..	324	265	53	1	9	652

TABLE C.

Table of Occupations of Adult Patients found to be Tubercular.

Invalided Service ..	..	..	..	..	..	..	37
Household Duties ..	..	..	..	..	..	..	86
Domestic Servants ..	..	..	..	..	..	..	14
Clerks and Shop Assistants ..	..	..	..	..	..	..	29
Skilled Artisans and Factory Workers ..	..	..	..	..	..	..	36
Labourers ..	..	..	..	..	..	..	28
Police ..	..	..	..	..	..	..	2
Public Vehicles ..	..	..	..	..	..	..	1
Dressmakers ..	..	..	..	..	..	..	3
Teachers	4
Post Office	1
Agents	4
Nurses	2
Merchant Service	2
Amusements	2
Nil	2

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TABLE D.Showing particulars of 324 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	36	40	21	8	6	120
Female ..	18	53	40	14	7	1	133
Total	28	88	80	35	15	7	253

Age and Sex Table—CHILDREN.

	0-4	5-6	7-8	9-10	11-12	12-15	Total
Male ..	11	8	8	6	4	7	44
Female ..	2	6	5	4	5	5	27
Total	13	14	13	10	9	12	71

TABLE E.

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

	Pulmonary	Pulmonary & other organs	Non- Pulmonary	Total
ADULTS ..	227	9	17	253
CHILDREN ..	25	3	43	71
Totals ..	252	12	60	324

TABLE F.

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

	Adults	Children	Total
Joint and Bone ..	6	22	28
Genito-urinary ..	1	1	2
Glands	6	16	22
Abdominal	2	3	5
Eyes	2	1	3
	17	43	60

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	73	70	93	236
Children	14	7	7	28
Totals	87	77	100	264

TABLE H.

LANGSTONE HOSPITAL

	Males	Females	Children		Totals
			M.	F.	
In Langstone Dec. 31st, 1923 ..	9	5	5	5	24
Admitted during 1924	50	43	32	24	149
TOTALS	59	48	37	29	173
Discharged during 1924	54	42	30	25	151
In Langstone Dec. 31st, 1924	5	6	7	4	22

TABLE 1.

Total Number of Patients treated at various Sanatoria, Hospitals, and Colonies during 1924.

Sanatorium, Hospital or Colony	Resident at beginning of year	Admitted during year	Discharged during year	Remaining end of year	Totals
Langstone Hospital	14	96	98	12	110
Beach Lodge (Children)	10	53	53	10	63
Milton Hospital	26	83	85	24	109
Royal National Sanatorium, Bournemouth .. ..	..	6	6	..	6
Royal National Hospital for Consumption, Ventnor .. ..	..	11	9	2	11
Margate Sea-Bathing Hospital	1	1	..	2	2
Preston Hall Training Colony	4	2	3	3	6
Papworth Hall Training Colony .. ..	..	2	..	2	2
Fairlight Sanatorium	2	5	5	2	7
Lord Mayor Treloar Cripples' Hos'l..	13	11	4	20	24
Royal Portsmouth Hospital .. ..	..	1	1	..	1
King George's Sanatorium for Sailors, Bramshott .. ..	..	1	..	1	1
Frimley .. ..	..	1	..	1	1
Hermitage Sanatorium .. ..	..	2	2	..	2
St. Catherine's Home, Ventnor	1	4	4	1	5
Shedfield Convalescent Home .. ..	..	10	10	..	10
	71	289	280	80	360

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
1924															
Jan.	5	..	13	11	..	..	2	..	..	3	..	..	..	..	29
"	12	..	12	13	1	1	..	..	..	1	3	..	..	..	31
"	19	..	10	11	3	..	..	..	..	1	1	..	1	..	27
"	26	..	8	11	..	..	1	..	..	..	1	..	..	..	21
Feb.	2	..	10	14	..	..	..	..	..	1	2	..	..	..	27
"	9	..	5	11	2	..	..	..	..	1	1	..	..	..	20
"	16	..	7	8	..	..	..	..	..	3	..	..	..	..	18
"	23	..	7	10	..	..	..	..	..	1	5	..	..	..	23
Mar.	1	..	7	7	1	..	..	..	..	..	7	..	..	..	22
"	8	..	17	5	1	1	4	..	..	1	3	..	..	..	32
"	15	..	14	8	..	1	2	..	..	2	2	..	..	..	29
"	22	..	20	15	1	..	..	..	..	..	5	..	..	..	41
"	29	..	11	7	..	..	..	..	..	3	4	..	..	..	25
April	5	..	10	11	..	..	1	..	..	1	1	..	4	..	28
"	12	..	9	9	..	1	..	..	..	2	4	..	1	..	26
"	19	..	5	9	1	..	3	..	..	..	1	..	1	..	20
"	26	..	3	8	..	..	2	..	..	1	4	..	1	1	20
May	3	..	12	10	1	1	..	..	..	..	2	..	1	..	27
"	10	..	7	14	..	..	3	..	..	1	..	..	..	..	25
"	17	..	13	11	2	..	3	..	..	1	..	..	2	..	32
"	24	..	9	7	1	..	2	..	..	..	..	..	2	..	21
"	31	..	15	6	..	..	2	..	..	..	2	..	..	..	25
June	7	..	9	4	..	..	1	..	..	1	..	..	..	..	15
"	14	..	9	5	1	..	..	..	..	1	1	..	..	..	17
"	21	..	8	5	1	..	1	..	..	..	1	..	..	..	16
"	28	..	8	7	..	1	1	..	..	3	..	..	..	1	21
July	5	..	6	10	..	..	2	..	..	..	..	..	1	..	19
"	12	..	9	9	..	..	..	..	..	1	1	..	1	..	21
"	19	..	12	4	1	..	..	..	..	..	..	..	1	..	18
"	26	..	16	5	1	..	..	..	..	..	..	..	..	..	22
Aug.	2	..	11	5	3	..	1	..	..	..	..	..	1	..	21
"	9	..	7	6	3	..	1	..	..	1	..	..	..	..	18
"	16	..	6	5	3	1	..	..	..	1	..	..	1	..	17
"	23	..	11	6	6	..	..	..	..	..	1	..	1	..	25
"	30	..	10	7	4	1	1	..	..	..	..	..	..	..	23
Sept.	6	..	11	5	2	..	2	..	1	..	1	..	1	..	23
"	13	..	10	10	1	..	4	..	..	2	..	..	1	..	28
"	20	..	9	9	1	1	..	..	..	7	..	..	..	..	27
"	27	..	16	15	2	1	4	..	..	1	..	..	1	..	40
Oct.	4	..	17	20	1	1	..	..	..	1	1	..	..	..	42
"	11	..	18	7	2	..	2	..	..	..	..	..	..	..	29
"	18	..	13	18	..	..	1	..	..	2	..	..	..	..	34
"	25	..	20	16	..	..	1	..	..	1	1	..	..	..	39
Nov.	1	..	25	16	..	..	3	..	..	..	..	..	..	..	44
"	8	..	4	11	..	..	3	..	..	..	..	..	..	..	18
"	15	..	10	10	..	..	1	..	..	2	..	..	..	1	24
"	22	..	9	13	1	..	..	..	..	1	..	..	..	..	24
"	29	..	20	11	..	..	1	..	..	..	..	..	..	..	32
Dec.	6	..	10	6	1	..	1	..	..	..	1	..	..	..	19
"	13	..	10	7	..	..	1	..	..	1	1	..	..	..	20
"	20	..	9	9	..	..	..	..	..	1	1	..	..	..	20
"	27	..	8	8	1	..	1	..	..	1	2	..	..	..	21
Jan.	3	..	11	16	..	..	..	..	..	..	1	..	..	..	28
TOTALS	..	..	576	501	49	11	58	..	1	52	61	..	22	3	1334

VENEREAL DISEASE.—The work at the V.D. Clinic, Royal Portsmouth Hospital has, as usual, been efficiently and successfully carried out by Dr. A. Campbell. There was a slight drop in the number of new cases seeking treatment. The following table is drawn up to give an indication of the prevalence of venereal disease in the Borough during recent years so far as they can be gauged by the attendance of new cases of disease at the V.D. Centre. The form of the table is slightly different from that given in former reports, as from this are excluded not only late cases of syphilis which present no active symptoms and cases of congenital syphilis, but also cases of syphilis in the tertiary stage.

Year	Patients suffering from Venereal Disease.		Total	Percentage Increase (+) or Decrease (—) on previous year.
	Males	Females		
1917 (10½ months)	106	71	177	..
1918 ..	127	89	216	+22.0
1919 ..	240	102	342	+58.3
1920 ..	217	102	319	— 7.3
1921 ..	170	53	223	—30.1
1922 ..	146	52	198	—11.21
1923 ..	177	54	231	+16.6
1924 ..	151	41	192	—16.9

It will be noted from the above table that there were apparently fewer new cases of venereal disease in the town last year than in any completed year since the Clinic has been opened.

No special propaganda work in connection with the prevention of venereal disease has been carried out during the year except that the leaflets giving advice on self-disinfection have been obtainable in the Health Department and similar notices are exhibited in the public urinals. Dr. Campbell in reply to questions put to male patients at the Clinic has obtained the following replies in regard to the practice of self-disinfection. In all, 81 male patients were questioned; of these only 5 contracted disease who practised self-disinfection within 10 minutes of exposure to infection, viz., one case of syphilis and 4 cases of gonorrhoea; 20 practised some form of washing or disinfection within 3 hours, viz.,

2 cases of syphilis, 3 cases of soft chancre and 15 cases of gonorrhoea ; 12, of which 4 were cases of syphilis, 7 cases of gonorrhoea and 1 case of soft chancre, practised some form of self-disinfection at some later period. As has been before pointed out we are unable to obtain any particulars as to those who, having exposed themselves to infection, practised self-disinfection and did not contract disease.

The following table gives the details of the work carried out at the V.D. Clinic :—

50 RETURN RELATING TO ALL PERSONS WHO WERE TREATED AT THE TREATMENT CENTRE DURING THE YEAR ENDED 31st DECEMBER, 1924.

	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, 1924, were under treatment or observation	160	106	3	..	106	21	16	10	285	137
2. Number dealt with during the year for the first time and found to be suffering from :—										
Syphilis only	132	78	..	..	..	..	..	..	132	78
Soft Chancre only .. .. .	..	..	7	..	..	..	..	..	7	..
Gonorrhoea only .. .. .	..	..	..	..	151	27	..	..	151	27
Syphilis and Soft Chancre .. .. .	..	..	..	..	..	..	..	..	..	..
Syphilis and Gonorrhoea	4	..	..	..	4	..	..	..	8	..
Gonorrhoea & Soft Chancre .. .. .	..	..	1	..	1	..	..	..	2	..
Syphilis, Soft Chancre and Gonorrhoea .. .. .	..	..	..	..	..	..	..	..	..	..
Conditions other than Venereal .. .. .	..	..	..	..	..	..	213	152	213	152
TOTAL—Item 2	136	78	8	..	156	27	213	152	513	257
TOTAL—Items 1 and 2	296	184	11	..	262	48	239	162	798	394
3. Number of persons who ceased to attend :—										
(a) before completing the first course of treatment for	18	14	1	..	36	13	..	..	55	27
(b) after one or more courses but before completion of treatment for	11	9	..	..	..	..	..	..	11	9
(c) after completion of treatment, but before final tests as to cure of	15	8	..	..	32	6	..	..	47	14
4. Number of persons transferred to other Treatment Centres after treatment for	10	5	1	..	12	2	..	..	23	7
5. Number of persons discharged after completion of treatment and observation for	74	19	6	..	81	15	..	..	161	34
6. Number of persons who, on the 1st January, 1925, were under treatment or observation for	168	129	3	..	101	12	15	16	287	155
TOTAL—Items 3, 4, 5, and 6	296	184	11	..	262	48	15	16	584	244
7. Out-patient attendances :—										
(a) For individual attention by the Medical Officer	1708	1436	82	..	1506	302	624	317	3920	2055
(b) For intermediate treatment, e.g., irrigation, dressings, etc.	766	225	386	..	6364	1169	589	548	8105	1944
Total Attendances	2474	1661	468	..	7870	1471	1213	865	12025	3999
8. Aggregate number of "In-patient days" of treatment given to persons who were suffering from	7	77	..	..	34	58	5	19	46	14

MATERNITY AND CHILD WELFARE.—The infantile mortality rate was 66 deaths of infants under 1 year per 1,000 births, slightly higher than last year, when it was 52. The infantile mortality rate for the whole country was 75 deaths per 1,000 ; in only one of the large towns, namely in Croydon where it was 55, was a lower infantile rate recorded than in Portsmouth. I have referred in former reports to the improvement which has been effected in this direction.

During the year, 5022 births were registered in the Borough and of these 188 were illegitimate. The infantile mortality rate amongst babies born out of wedlock was 159 per 1,000 births. Out of the 5,022 births, 4,784 were notified within 36 hours of birth.

Good work has been carried out at the Child Welfare Centres and Municipal Maternity Hospital under Dr. Frances Heron-Watson who succeeded Dr. R. K. Ford. The total number of attendances at the Child Welfare Centres was 17,275 and the number of new cases 1,310. The average attendances of infants at the various centres were as follows : at Fratton, 70 ; at Eastney, 60 ; at Portsea, 61 ; at Stanshaw 51. The attendances of mothers at the Pre-natal Clinic held at the Maternity Hospital numbered 544. Dried milk, etc., was issued to necessitous cases attending the Child Welfare Centres to the value of £2,484.

The Health Visitors paid 11,238 visits during the year ; of these 4,439 were first visits to infants under 1 year, subsequent visits to infants under one year numbered 3,535, and 3,168 visits were paid to children between the ages of 1 and 5 years.

49 cases of ophthalmia neonatorum were notified, all of which were visited by the Health Visitors, 32 of the cases were notified by midwives and 17 by medical practitioners. All the cases of ophthalmia recovered except one, which resulted in permanent blindness of the right eye. 11 cases of puerperal fever were notified and 6 cases proved fatal. All cases were visited by the Health Visitors.

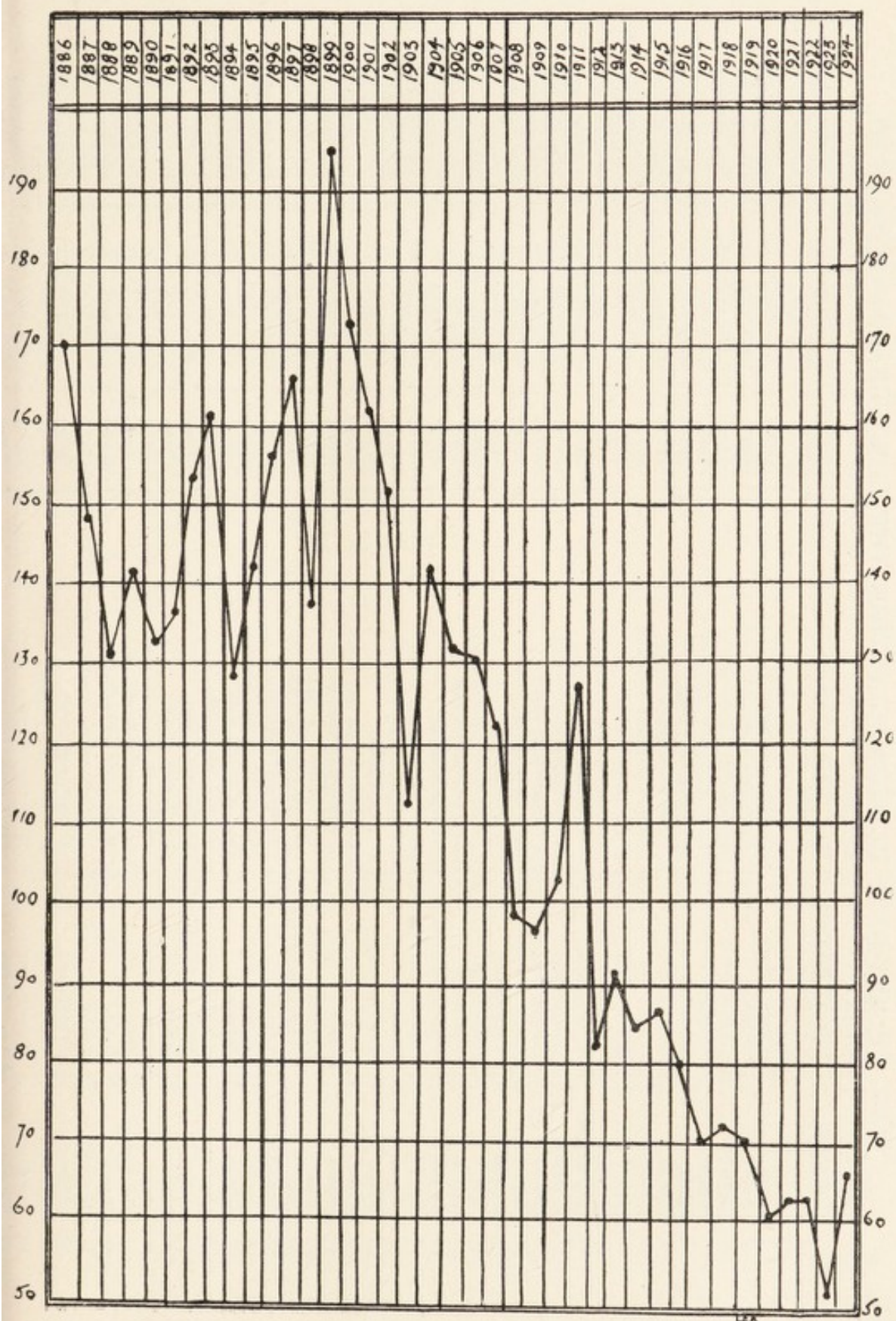
In reporting upon the measures for the improvement of child life, reference must be made to an excellent scheme for the treatment of cripple children which was inaugurated during the year. Through the efforts of some of the leading citizens of the Borough, the sum of £10,000 was raised by voluntary subscriptions for the object of securing skilled orthopaedic treatment for cripple children. The Committee

who took the matter in hand considered many proposals as to the most efficient manner in which this sum could be employed, and eventually, at a meeting of the subscribers held at the 'Town Hall on September 15th, it was decided by a large majority to approach the 'Trustees of the Lord Mayor 'Treloar Cripples' Hospital and College at Alton, with a view to securing treatment for our patients at that institution. Our proposals were favourably received by the Trustees and eventually an agreement was arrived at whereby in return for the above sum a ward of 50 beds at the Treloar Hospital was set aside in perpetuity for the cripple children of the Borough, with a maintenance charge of 30/- a week per occupied bed. This is undoubtedly a most successful arrangement and one that will prove of the utmost value to those cripple children of the Borough who otherwise would not have been able to receive the great benefits of modern orthopaedic treatment.

The Municipal Maternity Hospital in Elm Grove still continues to play a valuable part in our Maternity and Child Welfare Schemes. The number of admissions during the year was 213, or 38 less than in the previous year. The following table of statistics relative to the Hospital has been prepared for the Ministry of Health :—

Information Required	Particulars
(1) Total No. of Cases admitted ..	213
(2) Average duration of stay ..	14 days
(3) No. of Cases delivered by :	
(a) Midwives	210
(b) Doctors	3
(4) No. of Cases in which Medical Assistance was sought by the Midwife, with reasons for requiring assistance.	
(a) Ante-natal	18—1 Contracted Pervis 4 Cardiac 5 Vaginal Discharge 1 Bronchitis 1 Diabetic 2 Epilepsy 2 Solid Albumen 2 Varicose Veins
(b) During Labour	15—2 Ante Partum Haemorrhage 2 Epilepsy 2 Varicose Veins 2 Solid Albumen 7 Prolonged Labour
(c) After Labour	14—12 Ruptured Perineum 2 Post partum haemorrhage
(d) For Infant	9—8 Foetal Distress 1 Macerated Foetus
(5) No. of Cases notified as puerperal sepsis, with result of treatment in each case ..	Nil
(6) No. of Cases in which temperature rose above 100.4 for 24 hours, with rise of pulse rate ..	4—1 Flushed Breast 1 Cardiac 1 Solid Albumen 1 Thrombosis
(7) No. of Cases notified as ophthalmia neonatorum, with result of treatment in each case ..	Nil
(8) No. of Cases of "inflammation of the eyes," however slight ..	4
(9) No. of infants not entirely breast fed while in the Institution, with reasons why they were not breast-fed	Condition of Mother—31 2 Epilepsy 3 Cardiac 2 Albuminuria 1 Tuberculosis 3 Deformed Nipples 20 Insufficient Milk
(10) No. of Maternal Deaths, with causes	Nil
(11) No. of Foetal Deaths (stillborn or within 10 days of birth) and their causes, and the results of the post mortem examination, if obtainable ..	2 Stillborn—1 macerated foetus 1 deformity of cord 4 Within 10 days of birth— 3 Prematurity 1 Congenital Syphilis

Chart showing number of Deaths under 1 year of age to 1000 Births in
Portsmouth 1886-1924.



ROLL OF MIDWIVES PRACTISING WITHIN THE BOROUGH OF PORTSMOUTH.

SURNAME.	CHRISTIAN NAME.	ADDRESS.	No. of Cert.	Date of Certificate.	DATE OF NOTICE 1924
1. Ainsley	Clarissa Mary	23 Outram Road	51397	14th Aug., '20	7th January
2. Ansell	Nellie	83 Westfield Road	30550	10th May, '10	1st January
3. Barnes	Eliza	109 Church Road	23295	26th April, '06	2nd January
4. Barnes	Elizabeth	"	27020	14th Oct., '08	"
5. Blake	Ellen M.	19 Frensham Road	27693	16th Dec., '08	1st January
6. Bragg	Sarah	118 St. Augustine Road	42180	1st May, '15	3rd January
7. Bramham	Annie	Naval Maternity Hospital	62716	9th April, '24	22nd July
8. Brassfield	Frances Mary	12 Conway Street	47125	11th May, '18	1st January
9. Brockett	Ellen	23 Outram Road	45584	17th May, '17	7th January
10. Broughton	Emily Jane	10 Curzon Howe Road	40242	22nd June, '14	2nd January
11. Burgess	Alice Jessie	29 Festing Road	13412	23rd Feb., '05	8th January
12. Calvert	Fanny Jane	70 Sutherland Road	50796	12th May, '20	6th January
13. Carpenter	Laura	88 Ernest Road	47142	11th May, '18	31st March
14. Challis	Patty Jane	37 Aylesbury Road	4208	28th April, '04	"
15. Cox	Dorothy A.	Naval Maternity Hospital	55245	11th Oct., '21	23rd July
16. Crafts	Elizabeth	14 Alexandra Road	39421	17th Dec., '13	1st January
17. Dowse	Mabel Coles	23 Power Road	28319	7th April, '09	1st January
18. Elliott	Mary Ann Leah	128 Prince Albert Road	5487	30th June, '04	6th January
19. Farndell	Marion	454 Commercial Road	8755	27th Oct., '04	2nd January
20. Farr	Mary	6 Longs Road	52338	10th Nov., '20	1st January
21. Field	Ethel Fanny	126 Devonshire Avenue	54222	11th June, '21	1st January
22. Flynn	Ida	5 Addison Road	19308	27th April, '05	7th January
23. Foley	Louisa	454 Commercial Road	37918	28th April, '13	2nd January
24. Foot	Alice Maud Mary	21 Essex Road	54229	11th June, '21	12th January
25. French	Louisa	20 Church Path North	47980	19th Nov., '18	4th January
26. French	Rosina	Naval Maternity Hospital	62312	11th Feb., '24	29th March
27. Ginn	Elizabeth	26 Besant Road	8211	29th Sept., '04	14th January
28. Goodman	Lucy Ann	100 London Road	26437	21st May, '08	"
29. Gray	Eliza Ann	35 Herbert Street	11585	26th Jan., '08	3rd January
30. Hayes	Annie	105 Toronto Road	15559	23rd Mar., '05	1st January
31. Heard	Mabel Vesper	28 Victoria Road North	34559	28th Oct., '11	"
32. Hebington	Eliza	31 Curzon Howe Road	50981	12th May, '20	6th January
33. Hodge	Ada	73 King Street, Southsea	50992	12th May, '20	"
34. Howard	Lydia	49 Wisborough Road	63413	13th Dec., '22	14th July
35. Hulland	Emma Jane	32 Highland Road	58896	1st Jan., '05	1st January
36. Jeffery	Jane Elizabeth	41 Laburnum Grove	10663	22nd Dec., '04	13th March
37. Jiggins	Phoebe Ann	14 Lowcav Road	12378	26th Jan., '05	15th August
38. Kean	Lucy Rowe	133 Eastfield Road	31998	30th Sept., '10	6th January

SURNAME.	CHRISTIAN NAME.	ADDRESS.	No. of Cert.	Date of Certificate.	DATE OF NOTICE 1924
39. Kennick	Bertha ..	14 St. Peter's Grove	58451	14th Oct., '22	1st January
40. Langstreeth	Maria ..	115 St. Paul's Road ..	14211	23rd Feb., '05	3rd January
41. Lee	Ethel Eliza ..	15 Laburnum Grove	60963	11th Aug., '23	1st January
42. Longcroft	Kate ..	38 Leonard Road ..	50759	12th May, '12	4th January
43. Lovett	Ellen ..	14 Shearer Road ..	48431	10th Feb., '19	1st January
44. Mallett	Maude Phoebe ..	58 Campbell Road ..	55146	Oct., '21	3rd January
45. Malyon	Marion ..	200 Stanshaw Road	46160	11th Aug., '17	2nd January
46. Martin	Elizabeth Amy ..	80 Portchester Road..	56977	16th April, '22	1st January
47. Matthews	Elizabeth ..	21 Salisbury Road ..	55477	11th Oct., '21	"
48. Miles	Eva Margaret ..	Naval Maternity Hospital	48457	10th Feb., '19	"
49. Moore	Emma Lilian K. ..	41 Winter Road ..	48077	9th Nov., '18	2nd January
50. Morgan	Agnes ..	68 Montgomery Road ..	44981	31st Oct., '16	1st January
51. Owen	Jane Ann ..	22 Besant Road ..	43020	1st Nov., '15	2nd January
52. Palmer	Clara Gertrude ..	8 Tokio Road ..	51862	14th Aug., '20	1st January
53. Paul	Margaret ..	264 Twyford Avenue	35805	2nd May, '12	4th January
54. Pettigrew	Nellie L. ..	164 Queen's Road ..	48894	10th May, '19	1st January
55. Phillips,	Edith ..	80 Methuen Road ..	3388	24th Mar., '04	2nd January
56. Phillips	A. G. L. ..	14 Wykeham Avenue	34709	28th Oct., '11	1st January
57. Pink	Madeline V. ..	77 Newcome Road ..	53353	8th Feb., '21	2nd January
58. Ricketts	Lydia Helen ..	454 Commercial Road	64077	10th Oct., '24	11th October
59. Rust	Jane ..	204 Powerscourt Road	40133	28th April, '14	3rd January
60. Sansom	Maud Mary ..	31 St. Marys Road ..	40579	22nd June, '14	2nd January
61. Saveall	Rose M. ..	Naval Maternity Hospital	54488	11th June, '21	10th January
62. Shaw	Kate Margaret ..	83 Oxford Road ..	52716	10th Nov., '20	"
63. Sinclair	Anna ..	Naval Maternity Hospital	8461	27th Oct., '04	8th January
64. Smith	Elsie E. S. ..	46 Derby Road ..	58606	14th Oct., '22	5th January
65. Smith	Helen Annie ..	25 Malvern Road ..	51980	14th August, '20	15th May
66. Snowden	Alice Emma ..	52 Essex Road ..	12625	26th Jan., '05	2nd January
67. Spaven	Marion ..	86 Bramshott Road ..	61571	8th Oct., '23	4th February
68. Stubbs	Constance Isabel ..	Naval Maternity Hospital	58114	11th August, '22	14th July
69. Taylor	Florence Mary ..	3 Magdala Road, Cosham	29219	10th August, '09	1st January
70. Taylor	Lily May ..	3 Posbrook Road ..	18246	27th April, '05	5th January
71. Tomes	Ellen ..	16 St. George's Square	15515	23rd March, '05	2nd January
72. Tong	Flora Bertha ..	51 Sydenham Terrace	59142	13th Dec., '22	7th January
73. Trowbridge	Edith Mary ..	1 Collins Road ..	22860	28th Nov., '05	26th January
74. Weller	Marion Edith ..	45 Catisfield Road ..	46689	10th Nov., '17	1st January
75. Willcocks	May Julia ..	174 Chichester Road	57158	10th April, '22	1st January
76. Wilson	Grace Winifred ..	199 Laburnum Grove	56136	10th Dec., '21	5th July

TABLE XIX.

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

Week ending 1924			Temperature		Earth Therm.		Rain in inches	Deaths from Diarrhoea
			Max.	Min.	1 ft.	4 ft.		
July	26th	....	67.7	55.5	64.8	62.2	0.38	1
August	2nd	....	67.1	55.2	64.2	62.0	1.31	2
"	9th	....	66.5	54.2	63.4	62.0	0.32	..
"	16th	....	67.2	55.7	64.1	62.0	0.64	..
"	23rd	....	63.7	53.7	61.5	61.5	0.72	..
"	30th	....	63.4	53.7	60.5	60.6	0.85	..
Sept.	6th	....	65.7	56.8	61.8	60.6	0.22	..
"	13th	....	65.0	55.1	61.0	60.6	1.66	1
"	20th	....	64.0	55.0	60.8	60.2	0.26	..
"	27th	....	60.7	52.5	58.3	59.7	3.22	3
Oct.	4th	....	61.5	50.0	56.8	58.2	1.56	..
"	11th	....	59.1	51.5	56.1	57.7	1.09	2
"	18th	....	61.5	51.0	56.4	57.1	0.08	..
"	25th	....	55.4	45.4	53.8	56.8	1.08	..

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	380	1545	1925
Tuberculosis	100	464	564
Enteric Fever	13	31	44
TOTAL ..	493	2040	2533

HOUSING.—During the year occupation certificates were issued in respect of 237 new houses, an increase of 86 upon 1923. Of these 211 were houses coming under the definition of "houses for the working classes." The necessity for more housing accommodation is still pressing. Steps are in hand for the provision by the Council of 200 more houses on the Portsdown Hill site and for 100 houses within the old boundaries of the Borough. Further progress has been made with the erection of the two-storied tenements in connection with the Voller Street clearance scheme, but none have yet been completed.

Various particulars in respect of the defects in dwelling-houses are given in the following table :—

1.—UNFIT DWELLING HOUSES.

(1) Total number of houses inspected for defects	5250
(2) Total number inspected and recorded under Housing (Inspection of District) Regulations 1910	1
(3) Number of dwelling houses found so dangerous or injurious to health as to be unfit for habitation	1

2.—REMEDY OF DEFECTS WITHOUT SERVICE OF FORMAL NOTICE 1473

3.—ACTION UNDER STATUTORY POWERS.

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

(1) Number of dwelling houses in respect of which Notices were served requiring repairs	126
(2) Number of dwelling houses which were rendered fit ..	
(a) By Owners	104
(b) By Local Authority	22

B.—Proceedings under Public Health Acts—

(1) Number of dwelling houses in respect of which Notices were served requiring defects to be remedied	2031
(2) Number of dwelling houses in which defects were remedied—	
(a) By Owners	2031
(b) By Local Authority	Nil

C.—Proceedings under Section 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 nuisances attended to, defects found in workshops, inspections of slaughter-houses, dairies, bakehouses, common lodging-houses, etc., together with list of foods destroyed, will be found in the Chief Sanitary Inspector's Report.

MUNICIPAL DISINFECTING FLUID.—During the year 10,300 gallons of electrolysed sea-water disinfectant were manufactured at the station in Park Road. Of this 4,475 gallons were issued to the public ; 2,695 gallons to the Public Elementary Schools ; 1,260 gallons to the Public Baths ; 580 gallons to Langstone Hospital ; 520 gallons to the Municipal Maternity Hospital ; 520 gallons to the Asylum, and 250 gallons to the Workhouse and Infirmary.

TABLE OF ANALYSES OF PUBLIC WATER SUPPLY DURING 1924
BY THE PUBLIC ANALYST.

(Results expressed in parts per 100,000).

Date 1924	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.	29.0	4.0	1.7	0.36	22.0	0.0008	0.0028	0.33	Bright and clear The analysis shews that the water is in good condition on the date in question.
Feb. 19	do.	31.0	3.5	1.7	0.29	21.0	0.0005	0.0027	Nil	do.
Mar. 18	do.	30.2	4.0	1.7	0.44	23.0	Nil	0.002	Nil	do.
April 8	do.	30.5	2.4	1.6	0.30	21.5	Nil	0.0015	Nil	do.
May 19	do.	29.5	3.0	1.7	0.40	22.5	0.0003	0.0017	Nil	do.
June 23	do.	30.5	1.5	1.7	0.39	22.5	Nil	0.0022	Nil	do.
July 14	do.	30.5	2.5	1.7	0.37	22.5	Nil	0.002	Nil	do.
Aug. 12	do.	30.0	2.0	1.7	0.38	22.5	Nil	0.0018	Nil	do.
Sept. 16	do.	30.5	2.0	1.7	0.36	21.5	Nil	0.002	0.012	do.
Oct. 27	do.	31.0	2.0	1.6	0.35	22.0	0.0005	0.0015	0.006	do.
Nov. 27	do.	31.0	6.0	1.6	0.40	22.0	0.001	0.0025	Nil	do.
Dec. 17	do.	31.0	4.0	1.7	0.45	22.0	Nil	0.0016	0.013	do.

ABSTRACT OF METEOROLOGICAL OBSERVATIONS

DATE — Week ending		Barometer reduced to Sea Level and 32° F.	TEMPERATURE										W Bt
			IN SHADE						ON GRASS		Earth below ground		
			Mean 9a.m. and 5p.m.	Mean Max.	Mean Min.	Mean Max. and Min.	Highest Max.	Lowest Min.	Mean Min.	Lowest Min.	Mean 1 ft.	Mean 4 ft.	
Jan.	5	30.182	42.4	46.7	37.5	42.1	51	33	32.4	25	42.3	45.0	41
"	12	29.634	41.3	46.5	36.7	41.6	51	30	32.4	28	40.5	44.7	40
"	19	29.637	45.3	48.8	42.7	45.7	51	38	39.4	36	43.6	44.7	44
"	26	30.190	45.0	48.2	42.0	45.1	51	32	35.8	26	44.4	45.3	44
Feb.	2	30.470	43.3	46.7	38.1	42.4	48	35	30.8	27	41.7	45.2	41
"	9	29.989	45.3	49.1	40.4	44.7	52	37	34.8	29	42.0	45.0	43
"	16	29.772	38.6	41.7	34.5	38.1	49	26	30.5	21	41.6	44.9	36
"	23	30.287	37.7	40.8	31.8	36.3	44	27	27.2	24	38.2	43.5	35
Mar.	1	30.105	37.6	41.5	31.7	36.6	46	27	27.5	22	38.2	42.7	35
"	8	29.925	39.6	46.4	32.2	39.3	49	28	26.8	25	38.8	42.2	37
"	15	30.238	46.3	50.8	35.5	43.2	56	33	27.1	24	39.7	42.7	42
"	22	29.875	44.5	49.8	35.0	42.4	59	30	28.0	23	40.7	43.0	41
"	29	29.482	46.7	50.2	42.4	46.3	58	37	41.2	36	46.0	44.5	44
April	5	30.170	42.7	46.0	33.7	39.8	54	30	29.4	26	41.6	45.0	38
"	12	29.702	44.3	49.2	35.1	42.2	55	32	30.1	27	43.1	44.7	41
"	19	30.040	50.0	55.5	38.2	47.0	62	36	34.4	31	46.0	45.2	45
"	26	29.917	56.2	61.2	47.5	54.4	72	45	44.0	39	51.8	47.8	51
May	3	29.631	52.1	55.5	47.0	51.2	59	45	44.2	41	51.9	49.4	49
"	10	29.930	50.9	55.4	42.8	49.1	59	38	37.2	32	52.5	50.3	46
"	17	30.081	57.0	61.8	47.5	54.7	66	42	44.8	41	56.2	51.9	53
"	24	29.807	60.4	65.0	53.1	59.0	73	49	49.7	47	59.7	54.2	57
"	31	29.886	61.2	65.7	52.4	59.0	72	48	49.1	43	60.6	55.5	56
June	7	30.029	57.4	61.2	51.7	56.5	64	50	49.4	47	60.7	57.0	54
"	14	29.925	58.0	62.4	52.1	57.2	65	42	50.2	36	60.9	57.4	54
"	21	30.00	62.7	67.0	52.5	59.7	70	49	47.1	41	62.7	58.0	57
"	28	30.205	65.4	71.2	54.0	62.7	76	51	49.7	45	65.7	59.7	60
July	5	29.796	62.3	65.5	54.2	59.9	67	47	49.2	39	64.7	61.0	57
"	12	30.066	64.5	70.0	56.8	63.4	77	55	50.2	48	66.0	61.3	60
"	19	30.017	64.6	69.4	55.1	62.2	72	51	48.2	41	67.0	62.4	59
"	26	29.940	63.3	67.7	55.5	61.6	70	52	51.7	45	64.8	62.2	57
Aug.	2	29.804	62.7	67.1	55.2	61.2	72	51	51.1	46	64.2	62.0	57
"	9	30.140	61.5	66.5	54.2	60.4	69	50	50.4	45	63.4	62.0	58
"	16	29.860	63.4	67.2	55.7	61.5	71	54	50.2	48	64.1	62.0	59
"	23	29.588	59.2	63.7	53.7	58.7	65	51	49.0	44	61.5	61.5	55
"	30	29.967	59.1	63.4	53.7	58.5	66	51	50.0	46	60.5	60.6	56
Sept.	6	29.954	62.4	65.7	56.8	61.2	69	54	53.4	47	61.8	60.6	59
"	13	29.755	60.4	65.0	55.1	60.0	68	55	51.2	40	61.0	60.6	58
"	20	30.017	60.0	64.0	55.0	59.5	66	53	50.5	43	60.8	60.2	57
"	27	29.735	55.9	60.7	52.5	56.6	63	50	46.8	44	58.3	59.7	52
Oct.	4	29.813	56.2	61.5	50.0	55.7	63	46	43.5	34	56.8	58.2	53
"	11	29.858	55.7	59.1	51.5	55.3	62	47	46.4	41	56.1	57.7	53
"	18	30.290	57.1	61.5	51.0	56.2	68	48	44.4	42	56.4	57.1	55
"	25	29.977	51.1	55.4	45.4	50.4	58	38	40.4	31	53.8	56.8	49
Nov.	1	29.658	55.0	58.1	46.0	52.0	60	41	46.0	41	53.2	55.1	54
"	8	30.123	48.2	52.8	42.4	47.6	58	35	36.4	27	49.7	54.6	45
"	15	30.114	49.9	51.8	45.5	48.7	56	41	41.5	35	49.4	53.0	48
"	22	30.500	43.4	48.4	37.5	43.0	52	27	32.1	22	45.3	51.6	41
"	29	29.664	49.4	53.2	46.5	49.9	55	40	42.8	33	48.5	50.8	41
Dec.	6	29.713	49.9	53.2	45.8	49.5	56	38	40.8	31	48.5	50.9	41
"	13	30.323	42.5	47.1	38.4	42.7	52	33	32.2	26	44.0	50.0	41
"	20	30.125	46.3	50.0	40.4	45.2	52	37	32.8	28	44.1	48.3	41
"	27	29.937	47.2	51.0	44.1	47.5	53	39	38.4	31	45.7	48.0	41
Jan.	3	29.647	46.9	50.5	43.1	46.8	54	39	36.7	31	45.0	47.8	41

SOUTHSEA.

The 53 weeks ending January 3rd, 1925.

SUNSHINE		CLOUD	WIND														RAINFALL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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SUMMARY OF METEOROLOGICAL STATISTICS, 1924.

Barometer.—The mean barometer pressure for the year was 29.960 inches. The highest observed reading corrected to sea-level was 30.676 on January 26th, and the lowest 28.983 on February 9th.

Temperature.—The mean temperature in the shade was 51.0° , or 0.2° above the normal.

MAXIMUM.—The mean maximum temperature in the shade was 56.4° , the highest being 77° on July 12th.

MINIMUM.—The mean minimum temperature was 45.6° , the lowest being 27° on February 18th and 29th.

MINIMUM ON GRASS.—The mean minimum temperature on the grass was 41.1° , the lowest being 21° on February 15th.

EARTH TEMPERATURE.—The mean temperature at 1 foot below the ground was 47.8° , and that at 4 feet 48.0° .

Bright Sunshine.—The amount of sunshine registered by the Campbell-Stokes Recorder amounted to 1,760 hours. The greatest amount registered on one day was 14 hours 40 minutes, viz., on June 14th and July 14th.

Frosts.—The minimum thermometer in the shade, four feet above the ground fell to and below freezing point on 21 days, and that on the ground on 67 occasions.

Humidity.—The mean humidity of the air (Saturation 100) was 78.0.

Rainfall.—The total rainfall was 36.59 inches. The greatest fall of rain in 24 hours was 1.68 inch, on September 25th.

Hail.—Hail fell on 6 occasions.

Thunder.—Thunder occurred on 16 occasions.

Snow.—Snow or Sleet fell on 9 occasions.

Fogs.—Fogs occurred on 24 occasions.

Gales.—Gales occurred on 11 occasions.

Averages for the past Ten years, 1915-1924 :—

<i>Rainfall</i>	<i>Hours of Bright Sunshine.</i>	<i>Mean Temperature.</i>	<i>Humidity (Saturation 100)</i>
28.50	1776.0	51.2	81.3

Vital Statistics of Whole District during 1924 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	176	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
1924	232,000	5096	5022	20.10	3003	12.94	94	68	348	66	2977	12.58

APPENDIX. TABLE II.—Cases of Infectious Diseases notified during the Year 1924.

Notifiable Disease	Cases notified in whole District.							Total Cases notified in each Locality.						Total Cases Removed to Hospital	
	At all Ages	At Ages—Years						1	2	3	4	5	6		
		Under 1	1 to 5	5 to 15	15 to 25	25 to 45	45 to 65								65 and up-wards
Small-pox .. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Malaria	3	..	..	..	2	1	..	..	..	1	1	..	..	..	..
Diphtheria (including Membranous Croup) ..	501	7	131	279	58	24	2	..	15	116	239	106	20	477	..
Erysipelas	58	1	1	7	8	12	21	8	5	14	19	18	2	..	..
Scarlet Fever	576	4	161	340	44	27	..	..	21	205	204	101	38	518	..
Enteric Fever	49	..	6	18	13	10	2	..	1	7	12	20	8	29	..
Influenzal Pneumonia ..	61	..	5	6	8	18	16	8	6	14	18	17	5	1	..
Puerperal Fever	11	..	..	..	1	10	..	..	1	4	3	2	1	1	..
Acute Poliomyelitis	1	..	1	..	..	..	..	..	..	..	1	..	..	..	..
Encephalitis Lethargica ..	22	..	1	7	3	5	4	2	2	4	7	6	3	4	..
Ophthalmia Neonatorum ..	52	52	..	..	..	..	..	..	11	17	13	10	1	..	..
Cerebro-Spinal Meningitis ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pulmonary Tuberculosis ..	404	..	5	47	96	189	57	10	50	109	101	107	27	213	..
Other forms of Tuberculosis ..	94	2	18	37	11	19	5	2	15	30	20	24	4	34	..
TOTALS	1832	66	329	741	242	316	108	30	127	521	638	412	109	1277	..

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 .. .. .	..	..	..	..	..	..	1	..	..	..
Chicken-pox .. .. .	..	..	..	..	..	..	..	2	3	5
Measles .. .. .	..	..	..	..	..	..	..	1	1	1
Scarlet Fever .. .. .	..	..	..	..	..	1	5	3	6	15
Whooping Cough .. .. .	..	..	..	..	..	..	..	1	..	1
Diphtheria .. .. .	..	..	..	..	..	..	..	..	..	..
Erysipelas .. .. .	..	..	..	..	..	..	..	1	1	4
Tubercular Meningitis .. .. .	..	..	..	..	..	1	1	1	3	5
Abdominal Tuberculosis .. .. .	..	..	..	..	..	..	1	1	1	1
Other Tuberculous Diseases .. .. .	..	..	..	..	..	..	..	..	1	1
Meningitis (<i>not Tuberculous</i>)	1	..	..	..	1	..	3	3	2	9
Convulsions	1	3	..	1	5	5	5	2	..	17
Laryngitis .. .. .	..	..	..	..	..	..	..	..	..	..
Bronchitis .. .. .	..	..	1	3	4	4	3	2	2	15
Pneumonia (all forms) .. .. .	..	..	1	..	1	14	13	10	20	58
Diarrhoea .. .. .	..	..	..	..	..	1	2	1	..	4
Enteritis .. .. .	..	1	1	..	2	4	2	3	2	13
Gastritis .. .. .	..	..	..	..	..	..	1	..	..	1
Syphilis .. .. .	..	1	..	..	1	2	2	..	..	5
Rickets .. .. .	..	..	..	..	..	..	..	..	..	..
Suffocation, overlying	2	1	..	1	4	2	3	..	..	9
Injury at Birth	1	..	..	..	1	..	..	..	..	1
Atelectasis	4	..	..	..	4	..	..	..	..	4
Congenital Malformations	11	4	2	1	18	5	1	1	1	26
Premature Birth	65	12	4	2	83	4	1	1	..	89
Atrophy, Debility and Marasmus	14	3	4	2	23	12	6	1	1	43
Other Causes	6	1	1	..	8	4	6	1	2	21
TOTALS ..	105	26	14	10	155	59	56	33	45	348

Nett Births in the year—Legitimate 4834
 Illegitimate 188

Port Sanitary Authority.

To the Chairman and Members of the Port Sanitary Authority.

GENTLEMEN,

During the year there arrived at this Port, exclusive of ships belonging to H.M. Navy, 6,373 vessels, and of these 476 were inspected by the Port Sanitary Inspector. Sanitary defects were found in 40 cases, and these were remedied before the vessels left the Port. There was no case of infectious disease reported.

Of the above vessels 5,764 were from the Solent, 515 were from coastwise ports, and 94 from foreign ports.

The nationalities of the various vessels were as follows :

British ...	6279	Dutch ...	4	Danish ...	2
French ...	27	Italian ...	4	Esthonian	2
Norwegian	27	German ...	3	Spanish ...	1
Swedish ...	19	Finnish ...	2	American	1
Brazilian	1	Greek ...	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, 1924.

The number of admissions was 1,137, as against 1,392 the previous year.

The number of deaths was 42, discharged 925, remaining 170. The combined mortality in respect of all deaths was 3.6 per cent.

SCARLET FEVER.—Admitted 518 ; last year 595 ; discharged 417, died 6, remaining 43. The fatality rate was 1.1 per cent.

DIPHTHERIA.—Admitted 477 ; last year 689 ; discharged 421, died 13, remaining 43. The fatality rate was 2.7 per cent.

ENTERIC FEVER.—Admitted 29, discharged 24, died 4, remaining 1. The fatality rate was 1.4 per cent.

TUBERCULOSIS.—Admitted 92, discharged 42, died 19 remaining 31. The fatality rate was 20.6 per cent.

VARICELLA.—Admitted 2, discharged 2.

MEASLES.—Admitted 5, discharged 5.

MUMPS.—Admitted 3, discharged 3.

ENCEPHALITIS LETHARGICA.—Admitted 4, discharged 4. The original diagnosis was not confirmed in any case.

RUBELLA.—Admitted 4, discharged 4.

AC. PNEUMONIA.—Admitted 1, discharged 1.

PUERPERAL FEVER.—Admitted 1, discharged 1.

WHOOPING COUGH.—Admitted 1, discharged 1.

Your obedient servant,

JAMES MCGREGOR,

Medical Superintendent.

MILTON HOSPITAL.

NUMBER OF PATIENTS ADMITTED
during the Year 1924.

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	141	310	38	19	7	..	..	518
Typhoid Fever .. ..	..	2	9	11	3	3	1	..	29
Diphtheria	7	122	265	57	17	7	2	..	477
Encephalitis Lethargica .. ..	..	1	1	..	..	1	..	1	4
Measles	1	1	1	1	1	..	..	..	5
Tuberculosis .. ..	..	..	3	19	31	23	14	2	92
Other Diseases .. ..	..	4	3	3	1	..	1	..	12
TOTALS ..	11	271	592	129	72	41	18	3	1137

NUMBER OF PATIENTS ADMITTED to the MILTON HOSPITAL
(Small-pox Patients—Langstone Hospital) for the years 1883 to 1924.

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
1924	..	518	29	477	5	108	1137

Report of the Chief Sanitary Inspector

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

GENTLEMEN,

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

2,031 Informal and 558 Statutory Notices were served for the abatement of Nuisances under the Public Health Act.

126 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 62 inspections of the sanitary arrangements of places of public entertainment.

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

DRAINAGE DEFECTS.

Drains cleared	452
Drains cleared in Workshops	2
Drains repaired or relaid	143
Drains ventilated or ventilating shafts repaired	30
Waste or rain-water pipes disconnected	17
New water-closet pans provided	107
New Pedestal closet pans provided	9
Water-closet fittings repaired	240
Flushing apparatus to water-closets provided	49
" " " " " " in workshops	3
Separate sanitary accommodation provided	6
Water-closets disconnected from Workshops	2
" ventilated	1
" cleansed	11
Urinals constructed	7
" provided with flushing apparatus	4
Glazed stoneware sinks provided	38

Ox Kidneys	..	lbs.	110	Cockles	..	box	1
" Tails	..	"	512	"	..	bushels	3
" Tongues	..	tins	10	Megrims	..	boxes	9
" Offal	..	lbs.	60	Herrings	..	barrels	18
Pressed Beef	..	"	15	"	..	boxes	33
Brawn	..	case	1	Salmon	..	lbs.	20
Sheeps' Kidneys	..	"	1	"	..	tins	79
" "	..	"	390	Shrimps	..	baskets	12
Lambs' Plucks	..	"	20	"	..	boxes	6
Calves' Plucks	..	"	170	"	..	kits	2
Pigs' Plucks	..	"	306	"	..	galls.	85
" Chines	..	lbs.	42	" (shelled)	..	bags	13
" Heads	..	"	13	Prawns	..	tins	24
Tripe	..	boxes	22	Sardines	..	"	8
"	..	lbs.	59	Crabs	..	"	181
Suet	..	"	154	"	..	barrel	1
Sausages	..	"	46½	Lobsters	..	"	22
Meat Paste	..	tins	2	"	..	tins	2
Rabbits	..	"	436	Cray-fish	..	"	94
Pork Pies	..	"	4	Salt-fish	..	cwt.	4
Eggs	..	"	1078	Whiting	..	boxes	4½
" (liquid)	..	tins	2	"	..	kits	2
Condensed Milk	..	"	138	Witches	..	"	1½
Cream	..	"	4	"	..	box	1
Hake	..	boxes	17	Mullet	..	lbs.	35
"	..	stone	3	Smelts	..	boxes	73
Skate	..	boxes	21	Escalops	..	"	18
"	..	bass	1	Potatoes	..	bags	94
" Wings	..	boxes	8	Tomatoes	..	tins	4
Codfish	..	stone	10½	Apricot Pulp	..	"	81
"	..	box	1	Dates	..	cases	26
Kippers	..	boxes	363	Apples	..	barrels	3
Dried Haddock	..	"	130	Jam	..	crate	1
" Fillets	..	"	350	Plums	..	baskets	9
" Codling	..	"	145	"	..	bottles	16
Bloaters	..	"	71	Apricots	..	tins	95
"	..	kit	1	Pears	..	"	27
Dried Codfish	..	boxes	4	Peaches	..	"	26
" "	..	stone	16	Pineapples	..	"	17
Ling	..	box	1	Fruit Salad	..	"	4
Sprats	..	barrels	20	"	..	bottle	1
"	..	boxes	2	Strawberries	..	basket	1
Mackerel	..	"	8½	"	..	tins	9
Dories	..	"	1	Cherries	..	"	4
Mixed Fish	..	"	18	Loganberries	..	"	5
Roes	..	"	51	Cocoa Nuts	..	"	16
Gurnet	..	"	2	Chicken	..	"	5
Plaice	..	"	1	Ducks	..	"	13
Bream	..	"	5	Turkeys	..	"	8
Codling	..	"	8	Goose	..	"	1
Dabs	..	"	6				

GENERAL INSPECTION.

DWELLING-HOUSES.—5,250 dwelling-houses were inspected and 7,833 re-inspections were made whilst work ordered to be carried out was in progress.

COMPLAINTS.—1,335 complaints were made at the office and received attention.

SLAUGHTERHOUSES.—2,760 visits were made to the slaughterhouses. There were 67 in actual regular use on December 31st, 12 of which were annual licences and one a five years' licence, all of which have been well kept.

DAIRIES, COWSHEDS AND MILKSHOPS.—1,332 visits were made to the registered Dairies, Cowsheds and Milkshops. There are 333 retail purveyors, 11 wholesale dealers in milk, and 7 Cowkeepers carrying on business in the Borough, and these premises have been well kept.

Under the Milk (Special Designations) Order 1922, 22 licences for the sale of Certified, Grade A (Tuberculin tested), Grade A and Pasteurized Milk were issued.

COMMON LODGING HOUSES.—347 visits were made to the eight registered Common Lodging Houses.

WORKSHOPS.—332 visits were made to the Workshops, which have been well kept, and 246 visits to out-workers' premises. Eight complaints were received from H.M. Inspector of Factories, all of which received attention.

BAKEHOUSES.—559 visits were made to the different Bakehouses, most of which were found to be kept in a very cleanly condition.

SAUSAGE MANUFACTORIES.—596 visits were made to these premises, which were kept in a very satisfactory manner.

OLD DRAINS.—1,788 old drains were tested or re-tested.

NEW DRAINS AND FITTINGS.—590 new drains were tested or re-tested and 350 sanitary fittings were examined.

OCCUPATION CERTIFICATES.—237 Occupation Certificates were issued with respect to new buildings.

SANITARY CERTIFICATES.—35 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 only three certificates relating to dwelling-houses not being kept in a reasonable state of repair were granted to tenants.

RATS AND MICE (DESTRUCTION) ACT,—155 visits were made to rat infested premises and 11 notices were served.

INFECTIOUS DISEASES.—1,169 cases of infectious diseases were visited and investigated, and 1,327 rooms were disinfected by the disinfectors.

PROSECUTIONS AND FINES.

During the year proceedings with respect to non-compliance with Notices to abate Nuisances under the Public Health Act, 1875, were taken in three instances. The cases were withdrawn on the payment of costs, the work having been carried out to the satisfaction of the Local Authority.

Eight informations were laid against owners of property for failing to pay the costs of repairs carried out by the Corporation under Section 28 Housing, Town Planning, etc., Act, 1919. Orders for payment were made in five cases, and three were withdrawn, the costs having been paid before the hearings by the Magistrates.

Proceedings were taken against one owner for failing to pay his apportionment under Section 41 of the Public Health Act, 1875, of the cost of the repair of a combined drain. This was also paid before the hearing of the case.

SLAUGHTERHOUSE BYE-LAWS.—Two journeymen-butchers were fined 10s. each for breaches of Slaughterhouse Bye-law No. 9, for slaughtering animals other than by means of a mechanically operated instrument, sufficient and adequate for the purpose.

FOOD AND DRUGS ACT.—Two persons were proceeded against for selling adulterated whisky, and were fined £2 and £3 respectively.

One person was fined £5 for selling adulterated milk, the cases against three dairymen were dismissed and one case was withdrawn.

Two persons were summoned for selling sausages containing 81 and 64 grains of boric acid to the pound. They were fined £10 and £3 3s. 0d. respectively.

One person was fined 10s. for selling vinegar 12 per cent. deficient in acetic acid.

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,

The work in connection with the above was carried out during the year by Inspector Monkcom, who has now retired, assisted by Inspector Hall, in the absence of Inspector Turner, owing to illness.

I submit a list of animals coming into the Borough from outside, viz. :—

(1) Portsmouth Town and Fratton—

Beasts	...	...	5,972
Sheep	...	...	15,220
Calves	...	...	6,410
Pigs	...	...	12,614
Horses	...	...	10

(2) By Tow Boats from the Isle of Wight—

Beasts	...	...	528
Sheep	...	...	403
Calves	...	...	681
Pigs	...	...	2,275
Yearlings	...	...	172
Horses	...	...	238

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

Beasts	...	...	183
Sheep	...	...	2,910
Calves	...	...	822
Pigs	...	...	8,143
Poultry	...	...	8,558
Horses	...	...	15

(4) Cattle, etc., at Cosham Railway Station.

Beasts	...	...	1,146
Sheep	...	...	2,188
Calves	...	...	46
Pigs	...	...	51

INSPECTION OF CATTLE TRUCKS, &c.—1,945 Cattle trucks, 351 Horse-boxes and 237 Towboats have been inspected, cleansed and limewashed, in accordance with the Orders of the Board of Agriculture.

SWINE FEVER.—3,111 licences under the Swine Fever Order of 1922 were issued for the removal of 28,774 fat pigs to slaughterhouses for slaughter, and 351 licences for 2,533 store pigs from markets to private piggeries.

Two outbreaks of the disease occurred during the year, one at South Wymering and the other at Hilsea. The diseased carcasses were buried in lime and the sties disinfected to the satisfaction of the Inspector.

I am, Sir,

Yours obediently,

FRED L. BELL,

*Chief Sanitary Inspector,
and 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 carried out in my Department during the year ending 31st December, 1924.

There is an increase in the number of samples examined, and the percentage of detected adulteration is slightly lower than during the preceding year.

The increase in the number of samples examined is almost entirely due to the samples taken in connection with "The Milk and Dairies Amendment Act, 1923," and it is gratifying to note that the consumption of these Graded Milks is increasing in the Borough. The results of the examination of these Milks are given on pages 84 and 85 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 regarding Foodstuffs.

I would also like to record the thorough and conscientious manner in which Inspector E. J. G. Sinnett 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, 1924, the total number of samples examined was 1,381, which may be briefly summarised as follows :—

	1924	1923
Food and Drugs Act	1,209	1,202
Milk and Dairies Amendment Act ...	74	46
Water	22	21
Paints, Oils, etc.	46	37
Miscellaneous	30	30
Total	1,381	1,336

The number of samples taken in connection with “ The Sale of Food and Drugs Act ” is 1,209. This averages one sample to every 191 persons in the Borough, or a “ Sample Rate ” of 5.2 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	670	583	13	11	1.8
Separated Milk	2	2	..	..	..
Condensed Milk	4	4	..	..	..
Evaporated Milk	4	4	..	..	..
Cream	11	11	..	..	..
Preserved Cream	3	3	..	..	..
Butter	117	117	..	..	..
Margarine	27	27	..	..	..
Lard	16	16	..	..	..
Cheese	10	10	..	..	..
Dripping	8	8	..	..	..
Cocoa	44	44	..	..	..
Coffee	47	47	..	..	..
Coffee and Chicory	1	1	..	..	..
Tea	11	11	..	..	..
Mustard	24	22	1	1	4.1
Pepper	21	21	..	..	..
Baking Powder	3	3	..	..	..
Egg Powder	5	5	..	..	..
Ground Rice	4	4	..	..	..
Rice	3	3	..	..	..
Ground Almonds	7	7	..	..	..
Ground Ginger	9	8	1	..	..
Pearl Barley	9	9	..	..	..
Bloater Paste	1	1	..	..	..
Vinegar	11	10	..	1	9.0
Pork Pies	6	4	..	2	33.3
Sausages	22	4	..	18	81.8
Jam	3	3	..	..	..
Cream Ice	4	3	1	..	..
Suet	4	4	..	..	..
Meat Paste	3	2	..	1	33.3
Potted Shrimps	1	1	..	..	..
Preserved Peas	3	..	..	3	100.0
Mincemeat	5	2	..	3	60.0
Honey	3	3	..	..	..
Golden Syrup	2	2	..	..	..
Cake	9	9	..	..	..
Sponge Flour	3	3	..	..	..
Whiskey	32	22	..	10	31.2
Rum	2	2	..	..	..
Lemon Curd	2	2	..	..	..
Lemon Squash	2	2	..	..	..
Raspberry Cordial	1	..	..	1	100.0
Quinine Wine	3	3	..	..	..
British Wine	3	..	..	3	100.0
Olive Oil	4	4	..	..	..
Camphorated Oil	13	13	..	..	..
Amm. Tincture of Quinine	7	7	..	..	..
Crushed Linseed	5	4	1	..	..
Tincture of Iodine	7	7	..	..	..
Mercury Ointment	3	3	..	..	..
Cream of Tartar	5	5	..	..	..
Bicarbonate of Soda	3	3	..	..	..
Tartaric Acid	4	4	..	..	..
Prepared Chalk	4	4	..	..	..
Milk of Sulphur	4	4	..	..	..
Distilled Water	3	3	..	..	..
Glycerine	4	4	..	..	..
Glycerine of Borax	3	3	..	..	..
Solution of Ammonia	3	3	..	..	..
Household Ammonia	2	2	..	..	..
Carbonate of Potash	1	..	1	..	..
Zinc Ointment'	4	4	..	..	..
Boric Ointment	4	4	..	..	..
White Precipitate Ointment	4	4	..	..	..
Total	1029	1137	18	54	4.4

TABLE B.
ADULTERATED SAMPLES

No.	Nature of Sample.	Nature of Adulteration.	Observations.
109	Whiskey	3.8% of Added Water	Test Sample
110	"	4.6%	"
111	"	4.6%	"
112	"	10.7%	"
113	"	6.1%	"
114	"	10.7%	"
115	"	5.8%	"
117	"	19.2%	"
118	"	16.1%	Fined £2.
164	Milk	33.0% deficient in Milk Fat	Test Sample.
174	"	8.0%	Dismissed, Appeal to Cow
177	"	7.0%	"
272	"	8.0%	"
361	Pork Pie	Boric Acid 5 grams to the pound	Test Sample.
368	Milk	13% deficient in Milk Fat	Cautioned by M.O.H.
479	"	Formaldehyde 1 part per million	Cautioned by M.O.H.
544	"	26% deficient in Milk Fat	Summons withdrawn.
546	"	8%	Cautioned by M.O.H.
560	Pork Pie	Boric Acid 9 grains to the pound	Test Sample.
574	Sausages	Boric Acid 14 grains to the pound.	"
580	Raspberry Cordial	Salicylic Acid 1.7 grains to the pint	"
582	Sausages	Boric Acid 66 grains to the pound	"
601	"	" 75	"
602	"	" 81	Fined £10.
692	Milk	16% deficient in Milk Fat	Fined £5.
694	"	7%	Cautioned by M.O.H.
732	Whiskey	9.2% of Added Water	Fined £3.
915	Vinegar	35% deficient in Acetic Acid	Fined 10/-.
918	Sausages	Boric Acid 9.5 grains to the pound	Test Sample.
919	"	" 12.0	"
920	"	" 30.0	"
921	"	Sulphur Dioxide 1.2 grains to the lb.	"
922	"	Boric Acid 17.5 grains to the lb.	"
924	Meat Paste	" 8.4 grains to the lb.	"
963	Sausages	Boric Acid 58.0 grains to the lb.	Test Sample.
964	"	" 56.0 grains to the lb.	Fined £3 3s. 0d.
1014	"	14% deficient in Meat (Sample guaranteed 75% Meat by Vendor)	Test Sample.
1015	Sausages	Sulphur Dioxide 2 grains to the lb.	Test Sample.
1017	"	Boric Acid 25 grains to the lb.	"
1018	"	" 8 grains to the lb.	"
1019	"	" 18 grains to the lb.	"
1041	"	" 16 grains to the lb.	"
1048	Mustard	15% Starch	"
1069	Sausages	20% deficient in Meat. (Sample guaranteed 75% Meat by Vendor)	Test Sample.
1070	Preserved Peas	Copper Sulphate 1.5 grains to the lb.	Test Sample.
1071	"	" 1.5 grains to the lb.	"
1088	"	" 0.5 grains to the lb.	"
1105	Milk	31.7% of Added Water	Test Sample.
1108	Ginger Wine	Sulphur Dioxide 1 grain to the pint	"
1109	"	Salicylic Acid 2.5 grains to the pint	"
1110	Raisin Wine	" 3.0 grains to the pint	"
1114	Minced meat	Sulphur Dioxide 0.7 grains to the lb.	"
1116	"	" 0.5 grains to the lb.	"
1117	"	" 0.5 grains to the lb.	"

The fines including costs amounted to £23 13s. 0d.

There were no cases 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	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
Do.	1924	1,209	54	4.4
ENGLAND AND WALES ..	1923	114,846	6,980	6.1
Do.	1922	113,860	7,106	6.2

MILK.

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

TABLE D.

	Year	Samples Examined	Number Adulterated	Percentage Adulterated
PORTSMOUTH	1920	666	30	4.5
Do.	1921	651	31	4.7
Do.	1922	573	16	3.3
Do.	1923	588	28	4.7
Do.	1924	607	11	1.8
ENGLAND AND WALES ..	1922	60,274	4,624	7.7
Do.	1923	59,925	4,684	7.8
LONDON	1923	—	—	3.8

TABLE E.

Month	Fat	Solids-not-Fat	Total Solids
January	3.62	8.90	12.52
February	3.49	8.85	12.34
March	3.46	8.80	12.26
April	3.54	8.80	12.34
May	3.53	8.89	12.42
June	3.48	8.89	12.37
July	3.59	8.84	12.43
August	3.62	8.81	12.43
September	3.75	9.05	12.80
October	3.77	8.95	12.72
November	3.81	8.86	12.67
December	3.58	8.82	12.40
Average	3.60	8.87	12.47
Average 1922	3.66	8.82	12.48
„ 1923	3.55	8.90	12.45
„ 1914	3.42	8.82	12.24

FARMERS' SAMPLES.

Twenty-two samples of Milk were taken during the year, representing the milk supplied to Retailers in the Borough, and of these, three were found to be adulterated. Legal Proceedings were instituted in each case. All three cases were dismissed on the "Appeal to the Cow."

MILK SUPPLIED TO LOCAL INSTITUTIONS.

Seventy-four samples were obtained from Kingston Workhouse and the various Hospitals in the Borough.

MILK & DAIRIES (AMENDMENT) ACT, 1923.

"CERTIFIED MILK."

Examined 27 ; Passed 24 ; Rejected 3.

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

The milk is put up in sterile bottles, sealed at the farm, and is not opened until actually required by the Consumer.

The standards for "Certified Milk" are: "not more than 30,000 bacteria per cubic centimetre, and 'Bacillus Coli' absent from one-tenth of a cubic centimetre." The 27 samples examined gave an average of 1,115 Bacteria per cubic centimetre, and 3 samples failed to pass the "Bacillus Coli" test.

The average fat content was 3.59 per cent., and of non-fatty solids 8.96 per cent.

The average retail price of this milk for the year was $1/1\frac{1}{2}$ per quart.

"GRADE A. (TUBERCULIN TESTED) MILK."

Examined 17 ; Passed 15 ; Rejected 2.

This Milk is produced from cows which have been certified free from disease, and which are subjected to the Tuberculin Test at intervals of six months. The standards for this Grade of Milk are: "not more than 200,000 bacteria per cubic centimetre and 'Bacillus Coli' absent from one-hundredth of a cubic centimetre."

Grade A (Tuberculin Tested) Milk is delivered to the Retailer in bulk and bottled locally.

The 17 samples examined gave an average of 1,982 Bacteria per cubic centimetre. In two cases the milk failed to pass the "Bacillus Coli" test and was rejected on this account.

The average amount of fat was 3.5 per cent. and of non-fatty solids 8.88 per cent.

The average price for the year was 9d. per quart.

"GRADE A. MILK."

Examined 30 ; Passed 26 ; Rejected 4.

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." In other words, it is milk produced under what should be normally clean conditions, and it is delivered in sealed churns to the retailer and bottled locally.

The average retail price throughout the year has been 8d. per quart, as compared with 7d. per quart for ordinary milk.

The 30 samples examined contained an average of 8,384 Bacteria per cubic centimetre. In four cases the milk failed to pass the "Bacillus Coli" test, and was rejected accordingly. The average Fat content was 3.7 per cent., and of Non-fatty Solids 8.88 per cent.

The results as a whole show that the general excellence of quality of these Graded Milks has been well maintained.

It is to be feared that the high price of "Certified Milk" places it beyond the reach of all but the wealthy classes, but I am informed that the consumption of Grade A ('Tuberculin Tested') and Grade A Milk is steadily increasing. I look forward to the time when "Grade A" Milk will be the normal supply for the whole population of Portsmouth, as is already the case in some towns.

It would appear that "Nursery Milk" is now no longer offered for sale, it being recognised that such designation carries no guarantee of purity, either on the part of the Producer or Retailer, as is the case with Graded Milk.

Nothing but Graded Milk should be supplied to the Local Hospitals, not only from the point of view of obtaining a purer and more wholesome supply, but also to encourage the production of this type of Milk.

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 a Preservative.</i>	<i>No. in which Preservative was reported to be present</i>
Milk	607	Nil
Skimmed Milk	2	Nil
Cream	6	Nil

2. CREAM SOLD AS PRESERVED CREAM.

(a) Instances in which samples have been submitted for analysis to ascertain if the statements on the label as to preservatives were correct.

(1) Correct statements made	..	..	8
(2) Statements incorrect	..	..	0
			—
Total			8
			—

(3) *Percentage of
Preservative
found in each
Sample.*

Percentage stated on the Statutory label.

No. 354	Boric Acid	0.17%
No. 355	"	0.11%
No. 523	"	0.16%
No. 605	"	0.20%
No. 606	"	0.30%
No. 779	"	0.20%
No. 780	"	0.12%
No. 781	"	0.24%

(b) Determinations made of milk fat in cream sold as preserved cream.

(1) Above 35%	..	..	8
(2) Below 35%	..	..	0
			—
			8
			—

3.—THICKENING SUBSTANCES.

No evidence of the addition of these to Cream or Preserved Cream.

BUTTER.

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	Samples Examined	Number Adulterated	Percentage of Adulteration
PORTSMOUTH	1920	76	0	..
Do.	1921	146	1	0.6
Do.	1922	123	0	..
Do.	1923	133	4	3.0
Do.	1924	117	0	..
ENGLAND AND WALES ..	1923	10,580	154	1.5

Each sample of Butter is examined for the presence of Preservatives, with the result that Boron Preservative was found in 59 samples, or 50 per cent. of the samples examined. The maximum amount of Boron Preservative detected in no case exceeded 0.28 per cent. Boric Acid—equivalent to 19 grains per pound.

MARGARINE.

Twenty-seven samples of Margarine were examined, all of which were properly labelled and proved to be genuine. The doubtful practice of advertising Margarine as being "Mixed with Butter" has now stopped. Under "The Sale of Food and Drugs Act" it is illegal to sell Margarine containing more than 10 per cent. of butter, and in most cases the so-called "Margarine mixed with Butter" contained about 3 per cent. of Butter, and was obviously misleading to the general public.

Of the twenty-seven samples examined, 25, or 92 per cent., contained Boron Preservative.

SAUSAGES.

Twenty-two samples of Sausages were received, and of these 18 were returned as adulterated. In two cases the Sausages were guaranteed to contain 70 per cent. of meat, but failed to reach this standard—the Vendors were cautioned.

Of the remaining samples attention should be called to samples numbered 582, 601, 602, 963, 964, in which the amount of Boron Preservative is grossly excessive, reaching 81 grains to the pound in one instance. Assuming that the average consumption of sausages at one meal is Two, *i.e.*, Four Ounces, a person would swallow over five times the maximum medicinal dose of Boric Acid, and in all probability would get an additional dose of this Drug if Butter or Margarine were partaken of at the same Meal.

The need for any Preservative whatever in locally-made Sausages, having a quick sale, such as the samples quoted, is very much open to question, but there is no doubt whatever that the addition of chemical substances to food in the amounts shown is not only unnecessary, but may be positively injurious to health.

SPIRITS.

Thirty-two samples of Whisky were examined, and of these ten, or 32 per cent., were found to be diluted with Water beyond the legal limit of 35 degrees Under Proof.

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

DRUGS.

Ninety samples of Drugs were examined, and these were all 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 1924
BY THE PUBLIC ANALYST.

(Results expressed in parts per 100,000).

Date 1924	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.	29.0	4.0	1.7	0.36	22.0	0.0008	0.0028	0.33	Bright and clear The analysis shews that the water is in good condition on the date in question. do.
Feb. 19	do.	31.0	3.5	1.7	0.29	21.0	0.0005	0.0027	Nil	do.
Mar. 18	do.	30.2	4.0	1.7	0.44	23.0	Nil	0.002	Nil	do.
April 8	do.	30.5	2.4	1.6	0.30	21.5	Nil	0.0015	Nil	do.
May 19	do.	29.5	3.0	1.7	0.40	22.5	0.0003	0.0017	Nil	do.
June 23	do.	30.5	1.5	1.7	0.39	22.5	Nil	0.0022	Nil	do.
July 14	do.	30.5	2.5	1.7	0.37	22.5	Nil	0.002	Nil	do.
Aug. 12	do.	30.0	2.0	1.7	0.38	22.5	Nil	0.0018	Nil	do.
Sept. 16	do.	30.5	2.0	1.7	0.36	21.5	Nil	0.002	0.012	do.
Oct. 27	do.	31.0	2.0	1.6	0.35	22.0	0.0005	0.0015	0.006	do.
Nov. 27	do.	31.0	6.0	1.6	0.40	22.0	0.001	0.0025	Nil	do.
Dec. 17	do.	31.0	4.0	1.7	0.45	22.0	Nil	0.0016	0.013	do.

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