[Report 1916] / Medical Officer of Health, Southampton County Borough.

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Southampton (England). County Borough Council.

Publication/Creation

1916

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County Borough of Southampton.



Annual Report

ON THE

Health of the County Borough of Southampton

AND THE

Port of Southampton FOR THE YEAR 1916,

BY

R. E. LAUDER, M.D., F.R.C.S. Ed., D.P.H.

Medical Officer of Health for the County Borough and Port of Southampton.

Medical Superintendent of the Borough and Port Fever Hospitals.

SOUTHAMPTON:

The "Hampshire Advertiser" Company, Limited, 45, Above Bar.

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ANNUAL REPORT OF MEDICAL OFFICER OF HEALTH.

To the Mayor, Aldermen, and Councillors.

MR. MAYOR AND GENTLEMEN,

I have the honour to submit for your information, in accordance with the order of the Local Government Board, my Annual Report upon the condition of the public health, and a record of the administrative work carried out by the Health Department for the year 1916, together with the vital statistics of the Borough. A summary of the work done and action taken under the Factory and Workshops Act, 1907, the Midwives' Act, 1902, and the Housing, Town Planning, etc., Act, 1909, is also included in the Report.

Summaries are also included in the Report of the general public health work carried out in the Borough, and the action taken in respect of infectious disease and the measures adopted for the prevention and control of Tuberculosis.

The health of the Borough was satisfactory during the year, the death-rate being lower than in the previous year and a considerable decrease occurred in the number of cases of infectious diseases recorded.

A large amount of work was carried out during the year for the Military Authorities, chiefly in connection with the treatment of cases of infectious disease in the Isolation Hospital from neighbouring camps and of cases landed in the Port.

The Annual Report on the health of the Port of Southampton is appended to the Borough Report this year. This report is much abbreviated, as it is not possible to publish any detailed information owing to the Port being used for military purposes.

I am, Mr. Mayor and Gentlemen,

Your obedient Servant

R. E. LAUDER,

Medical Officer of Health.

REPORT.

STATISTICAL SUMMARY FOR THE COUNTY BOROUGH OF SOUTHAMPTON.

Acreage		4,604
,, (including tidal water and foreshore)		5,817
Civil Population (estimated 1st July, 1916)		116,391
Number of Persons per acre		25.3
Number of Inhabited Dwelling Houses (Cen-	sus,	
1911)		20,275
Rateable Value (October, 1916)		£658,760
Births		2,770
Birth Rate		21.95
		1,677
Death Rate		14.46
,, corrected for age and sex distribu		13.84
" from Zymotic Diseases		0.84
Average Death Rate (10 years, 1906—1915)		13.73

POPULATION.

The difficulties that always exist of obtaining a reliable estimate of the population at the end of the intercensal period are now much increased by the changes brought about by the War, especially in regard to the male population between the ages of 18 and 40.

The necessity of arriving at a fairly accurate estimate of the civil population is of much importance, as upon this population are based all the various rates of vital statistics which form the index of the health of the District.

Further, the question of using a different population for the calculation of the birth-rate has also to be considered, as the births registered are not only those of the children of civilians, and a birth-rate calculated on the estimate of the civil population would not be reliable. The following estimates of the population of the County Borough of Southampton for the year 1916 have been adopted by the Registrar-General for the calculation of the death-rate and birth-rate:—

For the death-rate 116,391 ... 126,635

The former is an estimate of the civilian population: the latter of the total population based on the assumption that the ratio between the total and the civilian population is the same in the Borough as in England and Wales as a whole. With a view to approximation to the population amongst which the births have occurred, the total population of England and Wales for this purpose has been calculated by adding to the published estimate for the year 1914 the natural increase up to the middle of 1916.

At the present time there are very few houses vacant at a low rental procurable in the Borough. An enumeration is made by the Health Department at the end of each year of the unoccupied dwelling-houses in the Borough. The total number returned as unoccupied on the 28th December amounted to 140, only 20 of which were under a rental of £26 a year.

The total number of houses enumerated as unoccupied at the Census in 1911 was 836.

METEOROLOGY.

The weather during the year 1916 was generally unsettled and cool.

January was very mild, the mean temperature being six degrees higher than in March. February and March were cold and stormy, with much rain and snow. April was fine, with an unsettled and snowy end. May was fine and dry. June cool and unsettled. July was dull at the beginning, with fine and warm ending. August was fine and warm, with unsettled weather at the end. September was fine and dry. November and December, wet, cold, and unsettled.

The mean temperature for the year was 50.6 degrees, the average being 51.

The rainfall was 35.4 inches, the average being 34 inches.

The sunshine recorded amounted to 1,562 hours, compared with an average for the past ten years of 1,641 hours.

In the annual summary for the year 1916 issued by the Meteorological Office, the mean temperature of towns on the South Coast is given as:—

Penzance	 52.3	Brighton		 50.8
Plymouth	 51.1	Eastbour		 50.7
Falmouth	 50.7	Worthing	g	 50.5
Southampton	 50.6	Dover		 49.5
Bournemouth	 50.3			

BIRTHS.

The birth-rate for the year amounted to 21.95 per 1,000, calculated upon an estimated population of 126,635, and compares favourably with the birth-rate for the previous year (21.91), calculated on a population of 123,948.

The number of births registered amounted to 2,770, being an increase of 63 compared with the previous year, when 2,707 were registered.

Increases in the number of births registered occurred in the following Wards: Trinity, All Saints, Bevois, Banister, Freemantle, and Portswood, and decreases in Town, St. Mary's, Northam, Newtown, Millbrook and Shirley; St. Denys being the same as in 1915.

The following are the birth-rates in each of the Municipal Wards:—

Shirley	 26.7	Millbrook	 21.9
Trinity	 25.8	All Saints	 20.9
Northam	 24.9	St. Denys	 20.9
Town	 23.2	Bevois	 18.7
Freemantle	 22.2	Newtown	 17.8
Portswood	 22.0	Banister	 15.1
St. Mary's	 21.9		

Of the 2,770 births registered, 1,430 were males and 1,340 females, the proportion of male births to female births being

1,067 males to every 1,000 females. The following is the proportion in each of the preceding 10 years:—

Year.	ortion of emale Bir		Year.	portion of Nemale Birt	
1906	 1054	 	1911	 1008	
1907	 1090	 	1912	 1059	
1908	 1072	 	1913	 1023	
1909	 1059	 	1914	 1034	
1910	 1120	 	1915	 1022	

The average for the ten years being 1,054, and the average for England and Wales 1,039.

The illegitimate births registered amounted to 155, compared with 116 in the previous year; this is equal to an increase of 33.6 per cent.

The number registered is equal to a rate of 1.22 per 1,000 of the population and to 56 illegitimate births to every 1,000 births registered. The average for England and Wales is 1.0 and 43 respectively.

DEATHS.

The death-rate of the Borough for the year 1916 amounted to 14.46 per 1,000 of the population, which is a decrease of 0.32 when compared with 1915, but an increase of 0.47 over the average of the previous five years.

The death-rate is calculated, after deducting the deaths of soldiers occurring in the Borough, on the estimated civil population of 116,391. This figure represents the total population after deducting the estimated number of men who have been called to the Army. The subtraction from the population of these men during the healthiest period of their lives is the chief cause of the increase shown in the death-rate for the last two years—1915 and 1916.

In comparing the death-rate with other towns and with England and Wales the age and sex constitution of the population has to be taken into account, and the Registrar-General supplies to each of the large towns a factor by which the general death-rate should be multiplied to make it comparable with that of England and Wales. This gives a corrected

death-rate for each town of what it would be if the age and sex distribution of the population were the same as that of England and Wales. The factor for correction for Southampton is 0.9574, which gives a death-rate corrected for age and sex distribution of 13.84.

The statistics for the year relate to the 52 weeks ended 30th December, 1916. During this period 1,801 deaths were registered in the Borough, being a decrease of 29 compared with 1915.

Of this total, 203 were deaths of non-residents, including 119 deaths of soldiers in the various military hospitals and camps in the Borough. Seventy-nine deaths of residents of the Borough occurred in other Districts. The corrected total of deaths belonging to the Borough is 1,677, which is 51 below the total of previous years.

The causes of death are given in various tables in the Report.

The deaths from infectious diseases were much below the average, but Influenza was very prevalent in the last two months of the year, and the number of deaths of old people and those suffering from chronic diseases was exceptionally high.

The death-rate in each of the Municipal Wards per 1,000 of the population was:—

Banister	 10.3	Northam	 14.0
St. Denys	11.5	All Saints	14.1
Shirley	11.8	Newtown	 14.5
Millbrook	 13.1	St. Mary's	 15.2
Freemantle	 13.2	Trinity	 15.9
Portswood	 13.6	Bevois	 16.0
		Town	 22.4

The death-rate in each of the the old civil parishes of the Borough was:—

Town	 	 	16.2
Portswood	 	 	13.6
Shirley	 	 	12.0

The Borough is now united into one civil Parish, and is divided into two registration districts—east and west—the

dividing line being the main street from the Town Quay to the top of the Common.

The death-rate for England and Wales during the year 1916 was 14.0, and for the 96 great towns, 14.4 per 1,000 of the population.

Of the 1,677 deaths belonging to the Borough, 822 were males and 855 females.

The deaths which occurred in Public Institutions amounted to 540, not including deaths of soldiers in Military Hospitals. This number is equal to 30 per cent of the total deaths. The percentage in England and Wales was 24.2, and in the 96 large towns 29.6. The institutions in which the deaths occurred were: Isolation Hospital, 46; Royal South Hants and Southampton Hospital, 159; Parish Infirmary, 240; Workhouse, 67; Shirley Children's Hospital, 4; Free Eye Hospital, 1; Nursing Institutions, 23. Ninety-eight deaths also occurred in Military Hospitals in the Borough.

Inquests were held on 148 deaths registered in the Borough, which is equal to a percentage of 8.2, the percentage for England and Wales being 7.2.

TABLE A.

Showing Estimated Population, Birth Rates, Infantile Mortality, and Death Rates in each of the Municipal Wards for the year 1916, together with the Averages for the five years 1911-1915.

Birth Mortality Rate Rate Rate From Fro			Esti- mated			1916.				Averages, five Years 1911-1915.	five Years	1911-1915.	
Town 10,712 23.2 115.2 1.59 2.90 22.4 24.1 125.4 1.18 2.48 St. Mary's 11,653 21.9 1.37 1.72 15.2 23.7 121.4 1.57 1.64 Northam 10,659 24.9 107.6 0.56 2.07 14.0 29.9 1.05 1.65 Trinity 10,659 24.9 107.6 1.05 1.04 14.0 29.9 1.95 1.65 Newtown 7,682 10.7 1.04 14.1 18.2 68.2 1.95 1.65 All Saints 8,772 20.9 60.3 0.46 1.94 16.0 18.2 0.75 1.36 Bevois 7,447 12.1 1.24 16.0 19.8 0.50 1.10 Banister 7,445 22.2 95.0 0.05 1.72 11.2 1.07 0.30 </th <th>Wa</th> <th>rd.</th> <th>Civil popu'a- tion Middle of r916.</th> <th>Birth Rate</th> <th></th> <th>Death Rate from Zymotic Diseases.</th> <th>Death Rate from Phthisis.</th> <th>Death Rate from All Causes.</th> <th>Birth Rate</th> <th>Infantile Mortality per 1,000 Births.</th> <th>Death Rate from Zymotic Diseases.</th> <th>Death Rate from Phthisis.</th> <th>Death Rate from All Causes.</th>	Wa	rd.	Civil popu'a- tion Middle of r916.	Birth Rate		Death Rate from Zymotic Diseases.	Death Rate from Phthisis.	Death Rate from All Causes.	Birth Rate	Infantile Mortality per 1,000 Births.	Death Rate from Zymotic Diseases.	Death Rate from Phthisis.	Death Rate from All Causes.
St. Mary's 10,712 23.2 115.2 1.59 2.90 22.4 24.1 125.4 1.10 2.40 St. Mary's 11,653 24.9 137 1.72 15.2 24.1 1.15 1.10 2.40 Novtham 10,659 24.9 1076 1.05 0.96 15.9 24.9 1.95 1.05 1.06 Newtown 7,682 17.8 108.1 0.26 1.04 14.5 109.9 62.8 0.75 1.06 Newtown 7,682 17.8 108.1 0.26 1.04 14.5 109.9 62.8 0.75 1.06 Newtown 7,682 17.8 108.1 0.26 1.04 14.5 109.9 62.8 0.75 1.06 Bevois 7,682 17.8 108.1 1.29 0.46 1.04 14.1 18.2 68.2 0.75 0.96 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 <											0	0	0
Nowtham . 14,053 21.9 93.9 1.37 1.72 13.7 121.4 1.57 1.04 Nowtham . 10,659 24.9 107.6 0.56 2.07 14.0 29.9 103.2 1.95 1.05 Trinity . 8,330 25.8 68.7 1.08 0.96 15.9 24.9 92.9 1.40 1.36 Newtown . 7,682 17.8 108.1 0.26 1.04 14.5 19.9 62.8 0.75 0.97 All Saints . 8,772 20.9 60.3 0.46 0.91 14.1 18.2 68.2 0.60 1.35 Bevois . 7,647 18.7 129.0 0.65 1.44 16.0 19.8 83.9 0.80 1.10 Banister . 7,278 15.1 67.2 0.41 1.24 10.3 15.0 75.3 0.30 0.72 Freemantle . 7,445 22.2 95.0 0.67 1.21 13.1 27.2 110.0 1.68 1.43 Shirley . 9,889 26.7 55.9 0.61 0.51 11.8 29.1 87.1 1.51 1.14 Portswood . 8,733 22.0 67.3 0.96 0.84 11.5 23.6 90.8 1.26 1.07 Totals 116,391 21.95 85.2 0.84 1.39 14.46 23.36 95.6 1.22 1.39			10,712	23.2	115.2	1.59	2.90	4.22.4	24.1	125.4	1.15	2.40	10.5
Trinty 1, 15,039 24.9 10.05 0.96 15.9 15.9 15.9 15.9 15.9 15.9 15.9 15.9		aly s	11,053	21.9	93.9	1.37	1.72	15.2	23.7	121.4	1.57	1.04	16.0
Newtown 7,682 17.8 108.1 0.26 1.04 14.5 19.9 62.8 0.75 0.97 All Saints 8,772 20.9 60.3 0.46 0.91 14.1 18.2 68.2 0.60 1.35 Bevois 7,647 18.7 129.0 0.65 1.44 16.0 19.8 83.9 0.80 1.10 Banister 7,278 15.1 67.2 0.41 1.24 10.3 15.0 75.3 0.30 0.72 Freemantle 7,445 22.2 95.0 0.67 1.21 13.2 20.0 85.3 1.07 0.96 Millbrook 9,290 21.9 72.4 0.97 1.72 13.1 27.2 110.0 1.68 1.43 Shirley 9,889 26.7 55.9 0.61 0.51 11.8 29.1 87.4 1.51 1.14 Portswood 8,733 22.0 67.3 0.92 0.84 11.5 23.1 87.4 1.23 1.51 St. Deny's 8,301 20.9 69.1 0.96 0.84 11.5 23.6 90.8 1.26 1.07		tv	8.330	25.8	68.7	1.08	0.00	15.9	24.0	02.0	I.40	1.36	14.0
All Saints 8,772 20.9 60.3 0.46 0.91 14.1 18.2 68.2 0.60 1.35 Bevois 7,647 18.7 129.0 0.65 1.44 16.0 19.8 83.9 0.80 1.10 Banister 7,278 15.1 67.2 0.41 1.24 10.3 15.0 75.3 0.30 0.72 Freemantle 7,445 22.2 95.0 0.67 1.21 13.2 20.0 85.3 1.07 0.96 Millbrook 9,290 21.9 72.4 0.97 1.72 13.1 27.2 110.0 1.68 1.43 Shirley 9,889 26.7 55.9 0.61 0.51 11.8 29.1 87.4 1.23 1.51 St. Deny's 8,301 20.9 69.1 0.96 0.84 11.5 23.6 90.8 1.26 1.07 Totals 116,391 21.95 85.2 0.84 1.39 14.46 23.36 95.6 1.22 1.39		. u.		17.8	1.88.1	0.26	1.04		10.0	62.8	0.75	0.07	12.8
Bevois 7,647 18.7 129.0 0.65 1.44 16.0 19.8 83.9 0.80 1.10 Banister 7,278 15.1 67.2 0.41 1.24 10.3 15.0 75.3 0.80 1.10 Freemantle 7,445 22.2 95.0 0.67 1.21 13.2 20.0 85.3 1.07 0.96 Millbrook 9,889 26.7 72.4 0.97 1.72 13.1 27.2 11.05 1.68 1.43 Shirley 9,889 26.7 55.9 0.61 0.51 11.8 29.1 87.1 1.14 Portswood 8,733 22.0 69.1 0.96 0.84 11.5 23.1 87.4 1.23 1.51 St. Deny's 116,391 21.95 85.2 0.84 1.39 14.46 23.36 95.6 1.39		aints	8,772	20.0	60.3	0.46	16.0	14.1	18.2	68.2	09.0	1.35	13.3
Banister 7,278 15.1 67.2 0.41 1.24 10.3 15.0 75.3 0.30 0.72 Freemantle 7,445 22.2 95.0 0.67 1.21 13.2 20.0 85.3 1.07 0.96 Millbrook 9,290 21.9 72.4 0.97 1.72 13.1 27.2 110.0 1.68 1.43 Shirley 8,733 22.0 67.3 0.92 0.80 13.6 23.1 87.1 1.51 1.14 Portswood 8,733 22.0 69.1 0.96 0.84 11.5 23.6 90.8 1.26 1.07 Totals 116,391 21.95 85.2 0.84 1.39 14.46 23.36 95.6 1.22 1.39				18.7	129.0	0.65	I.44	0.9I	8.61	83.9	08.0	OI.I	13.3
Freemantle 7,445 22.2 95.0 0.67 1.21 13.2 20.0 85.3 1.07 0.96 Millbrook 9,290 21.9 72.4 0.97 1.72 13.1 27.2 110.0 1.68 1.43 Shirley 9,889 26.7 55.9 0.61 0.51 11.8 29.1 87.1 1.51 1.14 Portswood 8,733 22.0 67.3 0.92 0.84 11.5 23.1 87.4 1.23 1.51 1.14 St. Deny's 8,301 20.9 69.1 0.96 0.84 11.5 23.6 90.8 1.26 1.07 1.25 1.39		ster	7,278	15.1	67.2	0.41	1.24	10.3	15.0	75.3	0.30	0.72	11.2
Millbrook 9,290 21.9 72.4 0.97 1.72 13.1 27.2 110.0 1.68 1.43 Shirley 9,889 26.7 55.9 0.61 0.51 11.8 29.1 87.1 1.51 1.14 Portswood 8,733 22.0 69.1 0.92 0.80 13.6 23.1 87.4 1.23 1.51 1.14 St. Deny's 8,301 20.9 69.1 0.96 0.84 11.5 23.6 90.8 1.26 1.07 1.07 1.07 1.09		nantle	7,445	22.2	95.0	0.07	1.21	13.2	20.0	85.3	1.07	96.0	13.2
Shirley 9,889 26.7 55.9 0.61 0.51 II.8 29.1 87.1 I.51 I.14 Portswood 8,733 22.0 67.3 0.92 0.89 I3.6 23.1 87.4 I.23 I.51 St. Deny's 8,301 20.9 69.1 0.96 0.84 II.5 23.6 90.8 I.26 I.07 Totals II6,391 21.95 85.2 0.84 I.39 I4.46 23.36 95.6 I.22 I.39		ok		21.9	72.4	0.97	1.72	13.1	27.2	0.011	I.68	I.43	13.3
Fortswood 8,733 22.0 67.3 0.92 0.80 13.6 23.1 87.4 1.23 1.51 St. Deny's 8,301 20.9 69.1 0.96 0.84 11.5 23.6 90.8 1.26 1.07 Totals 116,391 21.95 85.2 0.84 1.39 14.46 23.36 95.6 1.22 1.39		ey	688,6	26.7	55.9	19.0	0.51	8.11	29.I	87.1	1:51	1.14	13.2
Fotals I16,391 21.95 85.2 0.84 11.35 23.6 90.8 1.26 1.07		·· pooms	8,733	22.0	67.3	0.92	08.0	13.6	23.I	87.4	I.23	1.51	12.3
116,391 21.95 85.2 0.84 1.39 14.46 23.36 95.6 1.22 1.39		eny's	8,301	20.9	1.69	96.0		11.5	23.6	8.06	I.26	1.07	12.0
116,391 21.95 85.2 0.84 1.39 14.46 23.36 95.6 1.22 1.39													
116,391 21.95 85.2 0.84 1.39 14.46 23.36 95.6 1.22 1.39													
	Tot		116,391	21.95	85.2	0.84	1.39	14.46	23.36	95.6	1.22	1.39	13.99

INFANTILE MORTALITY.

The deaths of infants under one year of age recorded during the year amounted to 236, being one less than the number recorded in the previous year. The infantile mortality rate calculated on each 1,000 births registered during the same period was 85.2. This rate is lower than that of the previous year, which was 87.6. In 1914 the rate was 89.9, in 1913 81.5, and in 1912 84.4.

Grouped in periods of five years the infantile mortality rate in Southampton shows a gratifying decrease during the past twenty years, as will be seen from the following table:—

	Period.		Infanti	le Mortality R	ate.
Average	5 years,	1897—1901		159	
,,	,,	1902—1906		120	
,,	,,	1907—1911		108	
,,	,,	1912—1916		86	

This reduction in the infantile mortality rate means a great saving of life. Had the mortality during the last five years (1912-1916) remained at the same level as it was in the five years 1897-1901 it would have resulted in the additional loss of no less than 1,035 infants.

The deaths of children over one year of age and under five also show a corresponding decrease, and if the five years 1912-1916 be compared with that of the five years 1897-1901, there has been a saving of over 1,350 lives of children under five years of age.

The infantile mortality rate in 1916 in England and Wales was 91, and in the 96 great towns, including London, 99.

The number of deaths of male infants amounted to 126, compared with 110 females. The sex mortality of infants under one year of age per 1,000 for the past five years is shown in the following table:—

	Males.	Females.	Both Sexes.
1912	 92.2	76.3	84.4
1913	 89.5	73.2	81.5
1914	 102.1	77.2	89.9
1915	 96.5	78.4	87.6
1916	 88.1	82.1	85.2

Eighty-one deaths of infants occurred during the first week of life, which is equal to 34.3 per cent of the total recorded under one year of age. In the previous year the percentage was much lower, 22.8. The cause of the increase in 1916 was due to the increase in the deaths from premature birth, the number recorded being 73, compared with 56 in 1915. Premature birth was responsible for 31 per cent. of the deaths under one year of age. The chief causes of deaths under one year during the past five years being:—

	1912.	1913.	1914.	1915	1916.
Diarrhœa and Enteritis	28	30	44	35	30
Premature Birth	55	64	69	56	73
Atrophy, Debility, and					
Maramus	27	25	34	15	20
Bronchitis and Pneumonia	42	45	33	48	37
Whooping Cough	35	10	IO	15	13

The deaths of illegitimate infants numbered 21, which, calculated upon the number of illegitimate births registered during the same period is equal to an infantile mortality rate of 135.5 the rate for legitimate infants being 82.2.

Similar rates for seven years are given for comparison:--

		L Infa	egitimate int Mortality Rate.	Illegitimate Infant Mortality Rate.
1910 .	 		75	 164
1911 .	 		128	 366
1912 .	 		79	 237
1913 .	 		77	 191
1914 .	 		85	 221
1915 .	 		84	 172
1916 .	 		82	 135

The infant mortality rate in the old civil parishes of the Borough per 1,000 births, was:—

Town pro	oper			 92.9
Portswood			Park	 83.6
Shirley, F	reemant	le, and	Millbrook	 72.6

The rate in Portswood increased by 10.6 compared with the previous year, the other two districts showing a decrease.

In the Municipal Wards the lowest rate was in Shirley Ward and the highest in Bevois Ward, in which area 60 per cent. of the deaths were due to premature birth.

The rates in the Municipal Wards are given below, the average rate in the preceding five years being shown for comparison:—

Ward.		1916.	Average	5 years, 1911	-1915.
Shirley	 	55.9		87.1	
All Saints	 	60.3		68.2	
Banister	 	67.2		75.3	
Portswood	 	67.3		87.4	
Trinity	 	68.7		92.9	
St. Denys	 	69.1		90.8	
Millbrook	 	72.4		110.0	
St. Mary's	 	93.9		121.4	
Freemantle	 	95.0		85.3	
Northam	 	107.6		103.2	
Newtown	 	108.1		62.8	
Town	 	115.2		125.4	
Bevois	 	129.0		83.9	

The Notification of Births Act came into operation in the Borough on the 9th March, 1908. This Act requires any person in attendance upon the mother within six hours after the time of birth, to notify the Medical Officer of Health of such birth in writing within thirty-six hours of the birth having occurred.

This Act (which was extended in 1915 and made compulsory) was passed in order that Health Authorities might obtain immediate notice of the occurrence of a birth, thus making it possible for Health Visitors to give early instruction and advice to the mother as to the feeding and treatment of the child. Under the Registration Act, which allows a limit of six weeks within which a birth may be registered, it frequently occurs that registration of a birth is only obtained after death has taken place. During the year 132 deaths occurred among infants under six weeks of age, being 56 per cent. of all those that occurred under one year of age.

The number of notifications received during the year under the Act amounted to 2,312.

The total notified is equal to a percentage of 83.5 of the births registered during the same period, the percentage being slightly slower thin in the previous years.

The numbers notified and percentage during the last five years is shown in the following table:—

Notified by-

Doctors	1912. 2 89	1913. 334	1914. 32 I	1915. 24 0	1916. 245
Midvives	1,790	1,836	1,733	1,880	1,811
Other persons present in the house at time of birth	490	322	261	163	256
	2,569	2,492	2,315	2,283	2,312
Percentage to births registered during the same period	91.1	84.3	78.5	84.5	83.5

During the year 2,608 births were investigated by the Health Visitors, and advice and instruction given in the management of infants. As a rule, these visits are appreciated by the parents, and where it is considered necessary for the welfare of the mother or infant, frequent re-visits are made. The number of re-visits made during 1916 amounted to 4,067.

Information was obtained as to the method of feeding of 2,379 infants under two months of age, of whom 1,996 were stated to be breast-fed, 57 partially breast-fed, and 326 hand-fed.

The method of feeding of those infants who died before reaching two months of age were also obtained, of whom 52 were stated to have been breast-fed, six partially breast-fed, and 20 hand-fed. Seventy-four infants died before being fed.

The percentage of deaths of infants under two months of age, in the groups under which they were classified, works out as follows:—

How fed.	Number	Deaths	Percentage
Breast-fed	1,996	52	2.61
Partially breast-fed	57	6	10.53
Hand-fed	326	20	6.13

All premises visited in connection with the notification of Births Act were inspected at the time of visit, and resulted in 199 defects being remedied.

MATERNITY AND CHILD WELFARE.

During the year the work in connection with the important branch of Public Health work has been gradually extended.

HEALTH VISITORS.

The necessity for the provision of an adequate staff of Health Visitors has received consideration during the year, an additional Health Visitor being appointed in April. In December a report was made to the Council, pointing out the urgent need there was for augmenting the staff in order to promote the health and welfare of mothers and infants at the present time, also to extend their work to include ante-natal visiting of infants from birth to school age.

The Council decided to increase the staff by two additional health visitors, bringing the number up to four, one of whom carries out the duties of Inspector of Midwives.

This number is not up to the standard suggested by the Local Government Board of one whole-time Health Visitor to every 500 births, the average number of births during the last five years being 2,838.

CENTRE.

What is required now is the establishment of a suitable Maternity Centre and Clinic. The difficulty is to obtain a building suitable for this purpose near the middle of the town, as experience shows that a Centre can only be established satisfactorily where the mothers and infants have not to travel a long distance to reach it.

The Governors of the Royal South Hants and South-ampton Hospital were approached with a view of starting a Maternity and Child Welfare Centre and Clinic in a portion of the Hospital buildings, also for providing beds for complicated maternity cases, but, unfortunately, the Hospital Committee, although desirous of assisting the Local Authority in the matter, are unable to provide the accommodation required.

VOLUNTARY AGENCY.

A voluntary agency, supervised by a Committee of Ladies, has three small centres at work in the Borough—(1) Holy Trinity Mission Hall, Winton Street; (2) Mission Hall, King Street; (3) Berrywood Mission Hall, Testwood Road, Millbrook—where baby weighings and consultations are held weekly by the Superintendent and voluntary workers; but only Centre No. 1 is under regular medical supervision. The Health Visitors regularly visit these centres, and letters for dispensary and hospital treatment supplied. Milk and other foods are provided for some infants, and for nursing mothers in necessitous cases. Health talks are given by a Doctor and by Health Visitors, and there are classes for cookery and making clothes.

Expectant mothers, also, are advised at the Winton Street Centre.

A small grant in aid of expenses is made by the Borough Council to these voluntary agencies.

RECORDS.

During the year complete records on the card index system were started, and are kept in the Health Department of every child born in the Borough. These records contain particulars of the health of mothers at time of child-birth; the health and weight of the child at birth; and home conditions as to overcrowding, ventilation, light, dampness, and general sanitary conditions of the premises. Subsequent attendance are also recorded as to the progress of the infant, the nature of feeding, illnesses, general condition, and nutrition, until the child arrives at school age, when the card is handed on to the School Medical Inspector.

INFANTILE MORTALITY, 1916.

											100
Causes of Death.		Under I week.	I-2 weeks.	2-3 weeks.	3-4 weeks.	Total under 4 weeks.	4 weeks & under 3 months.	3 months & under 6 months.	6 months & under 9 months.	9 months & under 12 months.	Total Deaths under I year.
All Causes—Certified		81	II	8	14	1114	1 50	33	22	T /7	026
	•••							1000	177	17	236
—Uncertified	• • • •							***			
2 " "											
Small Pox											
Chicken Pox											
Measles											
Scarlet Fever											
Whooping Cough							4	3	2	4	13
Diphtheria and Croup										3	-3
Davingles		1 1 1 1 1 1			1000		10000	1000			1 1000
Tolomostone Maningthia				1							
Abdominal Tuberculosis							I				I
	•••						3	I			4
Other Tuberculous Diseases											***
Meningitis (not Tuberculous)				I		I		I		I	3 8
Convulsions		I	I			2	I	I	3	I	8
Laryngitis											
Bronchitis		2		2	3	7	3	5	I	4	20
Pneumonia (all forms)			I			I	4	3	5	4	17
Diarrhœa					I	I	3	8	5		17
Enteritie				I		Î	7	3	I	1	13
Contritio		1000	I	2	100000	3	í	2	2	7.5	8
Cymbilia							2	1	1	•••	
Diff		I			2	3	2				5

Suffocation, overlying											
Injury at Birth		5				5					5
Atelectasis		4	I			5					5
Congenital Malformations		5	I			6	3				9
Premature Birth		55	5	2	4	66	6	I			73
Atrophy, Debility and Maras		5			3	8	8	2	I	I	20
Other Causes		3	I		I	5	4	3	2	I	15
		3				1	7	3		-	-3
Totals		8r	II	8	14	114	50	33	22	17	236
Totals	•••	01	1.	0	14	-14	30	33	22	1/	230
			1		1			1			

Nett Births in the Year—Legitimate, 2,655; Illegitimate, 155.

Nett Deaths in the Year—Legitimate infants, 215; Illegitimate infants, 21.

BIRTH RATE, DEATH RATE, AND INFANTILE MORTALITY IN SOUTHAMPTON SINCE 1882.

Year.	Birth	Death	Infantile	Aver	age Five Y	ears.
Year.	Rate.	Rate.	Mortality.	Birth Rate.	Death Rate.	Infantile Mortality
1882	32.1	18.3	131)			
1883	34.6	20.9	137			
1884	31.7	16.9	114	31.8	18.6	134
1885	30.5	19.0	146			
1886	30.1	18.0	140)			
1887	31.3	18.7	1451			
1888	31.3	16.9	126			
1889	30.6	16.3	117}	30.6	17.5	128
1890	28.5	17.5	129			
1891	31.3	18.0	123)			
1892	28.6	21.5	148			
1893	29.5	19.5	157			
1894	30.2	16.0	119	29.8	18.6	145
1895	30.4	18.7	155			
1896	30.4	77.2	146			
1897	30.4	1.3	156)			
1898	29.8	:7.3	153			
1899	29.6	19.1	178	29.6	17.6	159
1900	28.3	17.6	152			
1901	30.0	16.6	154)			
1902	29.I	15.7	124)			
1903	29.4	14.1	114			
1904	27.5	14.2	114	27.6	14.6	120
1905	26.0	15.1	133			
1906	26.0	13.8	113			
1907	24.3	13.6	108			1 - 1
1908	25.4	13.6	113			
1909	25.3	13.9	106}	24.8	13.7	108
1910	24.9	12.4	79			1000
1911	23.9	15.2	135			
1912	23.3	13.2	84)	7		
1913	23.8	12.9	82			
1914	23.9	13.9	90	23.0	13.9	86
1915	21.9	14.8	88			
1916	22.0	14.5	85	THE RESERVE		

MORTALITY FROM ZYMOTIC DISEASES.

The death-rate from diseases usually classified as the chief epidemic diseases, namely: Small Pox, Scarlet Fever, Diphtheria, Enteric Fever, Measles, Whooping Cough, and Diarrhœa, and Enteritis, among children under two years of age, amounted to 0.84 per 1,000 of the population, which is lower than in the preceding year, when the rate was 1.33.

The death-rate per 1,000 of the population from the diseases specified above for the past five years is shown in the following table:—

		1912	1913	1914	1915	1916
Small Pox		.000	.000	.000	.000	.000
Scarlet Fever		.017	.016	.081	.017	.043
Diphtheria		.158	.241	.316	-333	.138
Enteric Fever		.066	.048	.048	.069	.043
Measles		.149	.241	.081	.257	.078
Whooping Cough		.291	.080	.081	.316	.232
Diarrhœa & Enter	ritis					
under 2 years of	age	.257	.354	.389	.342	.310
Total Zymotic						
/						-
Death-rate		0.938	0.980	0.996	1.334	0.845

THE INCIDENCE OF NOTIFIABLE INFECTIOUS DISEASES.

The following is a total of the notifications received during the year:—

Small Pox			I
Cholera			0
Plague			0
Dielethania			172
Erysipelas			49
Carallet Farmer			187
Typhus Fever			0
Enteric Fever		,	23
Relapsing Fever			0
Continued Fever			0
Duampour 1 Fores			8
Canalana Cainal Fann			5
Daliamoralisia	/		4
Orbthalmin Mannetaum			80
Dulmana Talana lana			273
Other forms of Tubaraulasia			
		• • • •	49
	••	• • • •	802
German Measles		•••	174
			1.827

The following table shows the number of cases of notifiable disease recorded in the Borough during the past five years:—

DISEASE.		1912.	1913.	1914.	1915.	1916.
Small Pox		 2	I	2	_	I
Scarlet Fever		 288	177	344	430	187
Diphtheria		 192	357	450	346	172
Enteric Fever		 12	33	23	25	23
Continued Fever		 I	_	_	_	-
Puerperal Fever		 5	3	4	5	8
Erysipelas		 72	51	67	63	49
Cerebro-Spinal Fever		 I	-	-	14	5
Poliomyelitis		 -	-	I	2	4
Ophthalmia Neonatorum		 -	-	48	21	80
Pulmonary Tuberculosis		 339	464	411	318	273
Other Forms of Tuberculos	is	 -	105	104	78	49
Measles		 _	-	_		802
German Measles		 _	-	-	-	174
Fotal		 912	1191	1454	1302	1827

All ases of Pulmonary Tuberculosis were made compulsorily notifiable on the 1st January, 1912, other forms of Tuberculosis on the 1st February, 1913, Ophthalmia Neonatorum on 1st April, 1914, and Measles and German Measles on the 1st January, 1916.

Detailed information respecting Tuberculosis is given on pages 38 to 62.

The table which follows gives a comparison of the infectious sickness rates during the year 1916 in Southampton with the average for England, and for the County Boroughs of England per 1,000 of the population:—

		Sou	Co thampton.	unty Boroughs of England.	England.
Small Pox			0.01	0.00	0.00
Scarlet Fever			1.62	2.21	2.14
Diphtheria			1.46	1.45	1.51
Enteric Fever			0.20	0.16	0.16
Puerperal Feve	er		0.07	0.08	0.06
Erysipelas			0.40	0.59	0.54
Cerebro-Spinal	Fever		0.04	0.03	0.04
Poliomyelitis			0.03	0.01	0.02
Measles and	Gern	nan			
Measles			8.39	_	10.09

There were 3,507 visits and re-visits made to houses in which infectious diseases occurred, and inquiries were made relative to the probable source of infection, and the isolation of the patient. Information was also given concerning the precautions necessary to be taken to prevent the spread of disease, and in the case of measles advice as to treatment and nursing of patients where a medical man was not in attendance.

In connection with school absentees, 213 visits were made where non-notifiable infectious diseases occurred.

Of the cases notified in the Borough under the various Acts and Regulations, 402 were removed to the Isolation Hospital for treatment.

Sanitary defects were found in 97 houses in which cases occurred.

Particulars respecting each disease are appended:-

SMALL POX.

Two cases of Small Pox were landed in the Port, particulars of which are given in the Port Report.

One case occurred in the Borough—C. V. W., aged 26—the patient being a temporary caretaker on the Hospital Ship during the period a case transferred from the Port was under treatment. The case was of a mild discrete type. He was vaccinated in infancy and again after being in contact with Small Pox.

SCARLET FEVER.

The number of cases of Scarlet Fever notified during the year among the civilian population amounted to 187 cases, being a decrease of 243 cases compared with the total recorded in the previous year, and 157 less than in 1914.

The number of cases notified and deaths resulting from the disease for the past ten years were:—

Cases. Death	s. Percentage.
1907 165 2	1.21
1908 536 4	0.75
1909 424 5	1.47
1910 219 2	0.92
1911 195 5	2.56
1912 288 2	0.69
1913 177 2	1.13
1914 344 10	2.91
1915 430 2	0.47
1916 187 5	2.67

The cases occurred most frequently in Shirley, St. Mary's, and St. Denys Wards.

The disease was not of such a mild type as in the previous year, the case mortality amounting to 2.67 per cent. compared with 0.47 in 1915.

One hundred and thirty of the cases notified were removed to the Isolation Hospital, which is equal to a percentage of 69.5, compared with 61.5 in 1915, and 68.3 in 1914.

In addition to the cases admitted to the Isolation Hospital from the Borough, one case was admitted from the Port, 5 from neighbouring districts, and 28 military cases were admitted for treatment.

Operations for the removal of tonsils and adenoids was performed on 8 cases, or 6.2 per cent. of the total number of cases admitted to Hospital from the Borough. The percentage last year was 1.8.

The number of cases admitted suffering with purulent nasal discharge amounted to 20. The number of cases suffering with purulent ear discharge was 3.

The methods of treatment and discharge which have been adopted at the Isolation Hospital since 1902 were again carried out during the year, no heed being taken of desquamation in regard to detention in Hospital, but particular attention being given to the condition of the respiratory passages, ears, etc., by special isolation and treatment.

One "return" case occurred during the year. The particulars of this case are:—

B.A., age 4 years, was admitted on the 1st January, 1916, suffering with Scarlet Fever, and discharged on the 7th February. On February 14th, D.A., age 14, was notified to be suffering from Scarlet Fever.

The following table gives particulars of cases of Scarlet Fever notified in the Borough, showing the number treated in the Isolation Hospital, the period of detention and the number of "return" cases in each year:—

Year.	Cases notified.	Admitted to Hospital.	Average period in Hospital (days).	No. of "return" cases.	Cases treated at home.
1902	 261	208	48	7	53
1903	 427	353	34	7	. 74
1904	 113	102	26.7	2	II
1905	 140	123	29.3	2	17
1906	 68	60	28.8	2	8
1907	 165	151	32.6	3	14
1908	 536	378	33.7	5	158
1909	 424	331	38.8	3	93
1910	 219	183	36.9	0	36
1911	 195	171	34.0	0	24
1912	 288	235	32.0	0	53
1913	 177	136	34.0	4	41
1914	 344	235	30.5	I	109
1915	 430	26 2	32.3	2	168
1916	 187	130	35.1	I	57

DIPHTHERIA.

The number of cases of Diphtheria again showed a marked decrease, and was the lowest number recorded since 1904. The total number of cases notified amounted to 172, and compared favourably with 346 recorded in 1915 and 450 in 1914, and the average for the 5 years 1911-1915 339.

The disease was most prevalent in the Freemantle Ward, 42 cases, or nearly one-fourth of the total notified, occurring in that district. The lowest number of cases were recorded in Town and Northam Wards, with a total of 4 cases each.

Sixteen deaths occurred among the cases notified to the Borough, compared with 39 deaths in each of the two preceding years, and the average of 30 for the five years 1911-1916.

The number of cases notified and deaths recorded during the past ten years are shown in the following table:—

		Cases.	Deaths.	Percentage.
1906	 	 262	24	9.16
1907	 	 204	22	10.78
1908	 	 248	16	6.45
1909	 	 202	19	8.56
1910	 	 208	16	7.69
1911	 	 352	23	6.53
1912	 	 192	19	9.90
1913	 	 357	30	8.40
1914	 	 450	39	8.67
1915	 	 346	39	11.27
1916	 	 172	16	9.30

One hundred and twenty-four of the cases notified were admitted to the Isolation Hospital for treatment, which is equal to a percentage of 72.1 compared with 63.9 in 1915, and 64.9 in 1917.

In addition to the number specified above, I case among the crew of a vessel was admitted to the Isolation Hospital from the Port, 19 from neighbouring districts, and 80 military cases.

ENTERIC FEVER.

The cases of Enteric Fever notified in the Borough during the year amounted to 23. This is a decrease of 2 cases compared with those notified in 1915, and is equal to the average for the preceding 5 years.

The number of cases notified, and the deaths that occurred amongst cases notified in the Borough since 1901 are given in the following table:—

		Cases.	Deaths.	Percentage of Deaths amongst cases notified in the Borough.
1901	 	106	7	6.6
1902	 	123	15	12.2
1903	 	148	19	12.8
1904	 	19	I	5.3
1905	 	34	8	23.5
1906	 	15	5	33.3
1907	 	21	4	19.0
1908	 	37	4	10.8
1909	 	53	7	13.2
1910	 	55	9	16.4
1911	 	20	3	15.0
1912	 	13	3	23.1
1073	 	33	6	18.2
1914	 	23	4	17.4
1915	 	25	8	32.0
1916	 	23	3	13.0

The above table does not include the deaths of persons who were landed in the Port suffering from Enteric Fever and who subsequently died from the disease in Hospitals in the Borough.

One death of a resident of the Borough from Enteric Fever occurred at Margate, and one death of a Lascar landed in the Port are included in other mortality tables in this Report.

One case was that of a Steward who arrived home ill on a Hospital Ship, and another case had been working on the same ship in the Docks.

One case arrived home unwell from South Africa, and three cases arrived home ill a few days before notification from other towns in England.

Three Boy Scouts, who had been to an outing in the New Forest and had drank water from a stream, developed Enteric Fever.

In one case the evidence pointed to shellfish as the cause of infection, and one case had been in contact with a patient who died at Margate.

In eleven cases it was not possible to trace the source of the infection.

ENTERIC FEVER, 1916.

REMARKS.	Returned home unwell from Read-	Patient was a Steward on the	Had been working on a Hospital	Arrived unwell from Sheffield.	Patient was employed as a horse- keeper at Swavthling Remount	Depot Patient was at an Outing in the New Forest and drank water	from a stream. Do.	Had eaten shell fish previous to	See Cases Nos. 6 and 7.					Patient had been in contact with	Ship's Carpenter returned home unwell after a voyage to South Africa.
WHERE ISOLATED.	Isolation Hospital	Ditto	Do.	Do.	Union Infirmary	Isolation Hospital]	Do.	Do.	Home	Northumberland Rd. Isolation Hospital	Royal S.H. Hospital	At Home	Do.	Royal S.H. Hospital	Isolation Hospital
ADDRESS	North Road	Parsonage Road	Standford Street	Manchester Street	Orchard Lane	St. Andrews Road	Graham Road	Firgrove Road	Clausentum Road	Northumberland Rd.	Deal Street	Shakespeare Av	Portswood Road	Exmouth Street	Grove Street
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
SEX.	M	M	M	(L)	M	M	M	M	M	M	H	M	M	H	M
	:	:	:	:	:	:	:	:	:	:	-:	:	:	:	:
AGE.	91	18	28	31	42	14	12	1.5	6	14	42	51	36	20	30
	:	:	:	:	:	1	, i	:	:	:	:	:	:	:	:
NAME.	P.A.P.	н.н.	A.M.	E.P.	F.S.	W.N.H	F.R.G.K.	J.B.	E.R.	B.E.F.	R.S.	G.H.	W.F.I.	M.S.	M.M.
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
DATE.	II	13	14	17	27	18	26	27	61	II	21	22	28	14	25
DA	Jan.		Feb.	Mch.	"	May			June	"	"		:	July	
NO.	1	61	0	4	10	9	7	00	6	10	11	12	13	14	15

ENTERIC FEVER-Continued.

-									n n
	REMARKS.								Returned home unwell from Devon
		:	:	:	:				
	WHERE ISOLATED.	At Home	Isolation Hospital	At Home	Bevois Valley Road Isolation Hospital	Do.	Do.	Home	Do.
		:	:	:	oad	:	eet	irley	:
	ADDRESS.	Latimer Street	Princes Street	Princes Street	Bevois Valley R	Mount Street	Upper Bugle Street	The Crescent, Shirley Home	Archers Road
		:	:	:	:	:	:	:	:
	SEX.	M	Œ,	H	M	M	1	M	M
		:	:	:	:	:	:	:	19
	AGE.	13	7	12	6	01	12	47	19
		:	:	:	:	:	:	:	.:
	NAME.	E.G.	R.F.	J. C.	H.B.	W.B.	R.D.	A.M.T.	F.A.D
		:	:	:	:	:	:	:	:
	DATE.	25	. 2	21	13	61	24	21	25
		25 July 25	Sept. 5	9.	Oct.		Nov. 24	Dec.	
	C.	21	17	18	61	20	21	22	23

The following shows the Sanitary Defects found in Houses in which cases of Diphtheria and Enteric Fever occurred :--

lotal iber of sances oated.	Enteric Fever.	0и інн і ш і н і і і і	14
I otal number of Nuisances abated.	Diphtheria.	ωνι 4ν : ∞ 0∞ 2 κγ :	85
Back yards unpaved.	Enteric Fever.	1111111111111	:
Bg ya umpa	Diphtheria.		4
Roof of houses defec- tive.	Enteric Fever.	u	8
Roc of hous defe	Diphtheria.	[H : : : : : : : : : : : : : : : : : : :	14
o tary bins	Enteric Fever.	HH:::::::::	. 41
No sanitary dustbins	Diphtheria.	[a : a : i a : a a : H :	11
Defec- tive paving a back yards.	Enteric Fever.	1111111111111	:
Defec- tive paving in back yards.	Diphtheria.	H !!! H ! a a w a !!!	11
Dirty walls and eilings of ouses.	Enteric Fever.	4 H H	4
Dirty walls and ceilings of houses.	Diphtheria.	[инни]нюю [ню]	23
Defec- tive rains	Enteric Fever.	HH:::::::::	6
Defec- tive drains	Diphtheria.		14
Defective guttering under roof of houses causing lamp walls.	Enteric Fever.		~ :-
Defective guttering under roof of houses causing damp walls.	Diphtheria.	H ! ! ! ! ! ! ! ! ! ! ! ! ! !	4
ter eets uately lied vater.	Enteric Fever.	111111111111111111111111111111111111111	63
Water Closets inadequately supplied with water.	Diphtheria.	H	14
per of ses fied g the ar.	Enteric Fever.	44 шаннанн : нан	23
Number of cases notified during the year.	Diphtheria.	421 4 11 6 6 1 4 1 1 1 6 1 1 1 1 1 1 1 1 1	172
		s .	:
WARD.		Town St. Marys Northam Trinity Newtown All Saints Bevois Banister Freemantle Freemantle Millbrook Shirley St. Denys St. Denys	Total

MEASLES AND CERMAN MEASLES.

By an Order dated 27th November, 1915, the Local Government Board made the diseases known as Measles and German Measles compulsorily notifiable throughout England and Wales.

The Regulations made under this Order are cited as the Public Health (Measles and German Measles) Regulation, 1915, and came into operation on the 1st January, 1916.

Under the Order the duty is thrown upon the parent or guardian of notifying each case or each suspected case of Measles to the Medical Officer of Health. It is the duty of the Medical Practitioner also to notify the first case of Measles or German Measles seen by him in a given household, if this case, or a previous case in the same household, has not already been notified by the parent, and if no case of the same disease has been notified to the same household within two months.

This Order has been issued owing to the fact that Measies accounts for a large proportion of the total deaths from all causes in the first five years of life. It is responsible also for a large amount of mischief, often permanent, in those who survive attacks.

Measles seldom occurs in the first six months after birth. With this exception, nearly everyone is susceptible to Measles unless protected by a previous attack, and commonly more than half the children in towns have suffered from it before they begin to attend school.

Measles, however, as a cause of death is confined chiefly to children under five years of age, and the number dying out of a given number attacked (case mortality) decreases rapidly with advancing age. The case mortality at the age-period 5-10 has been found to be one-ninth of that in the third year of life. In the fourth year of life the case mortality is less than half that in the third year of life.

If, therefore, it is possible to postpone the attack from Measles to the age of five years there will be a very large saving of life, as well as improved vigour and usefulness in those who will have escaped injury by the complications which are so frequent a connection with Measles.

The number of cases of Measles and German Measles notified in the Borough during the year amounted to 976 cases, 766 of which were notified during the first six months of the year.

This number is equal to a rate of 8.39 per 1,000 of the population. The rate for England and Wales was 10.09.

All the cases notified were visited by the Health Staff, but the cases were mostly of a very mild type, and beyond recommending the parent to send for a medical practitioner and giving instructions as to precautions to be adopted, it was not necessary to take further action.

Three cases of Measles from the Borough were admitted to the Isolation Hospital for treatment. Three cases were also admitted which occurred among crews of vessels to the Port, and 95 naval and military cases of Measles and German Measles, occurring in the Port and in various camps in the neighbourhood and in the Port were also admitted.

In the following tables details of the cases notified to the Borough are given:—

Number of cases of Measles and German Measles which came to the knowledge of the Medical Officer of Health during the year 1916:—

	Measles.		German	Measles.	Measles and German Measles.		
	Civil	Military	Civil	Military	Civil	Military	
Notified by Medical Practitioners	617	10	172	25	789	35	
Parents Guardians, and other persons	185		2		187	(
Un-notified	,						
Total	802	10	174	25	976	35	

MEASLES AND GERMAN MEASULES.

Table showing the Age and Sex incidence of cases notified, and the Deaths recorded with case mortality.

les.		Total	23 33 33 33 33 33 33 33 33 33 33 33 33 3	174
German Measles.	Cases.	Females	28 4 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	113
Ger		Males	H 24 27 20 2 1 4 5 8 7	19
	Total.	Cases Mort'lity		1.12
	T		33 114 202 71 71 71 71 71 12 12 16	802
	S.	Cases De'ths Mort'lity	2	0.75
Measles.	Females.	De'ths	J# [#] [#] [] [] [6
Me			39 8 39 10 10 10 10 10 10 10 10 10 10 10 10 10	400
		hs Mort'lity	10.5	1.49
	Males.	De't	14H : : : : : : : : : : : :	9
		Cases	28.8 28.8 28.8 28.8 28.8 28.8 28.8 28.8	402
	11.			1
	Age Period.		Under I year I and under 2 2	Total

MEASLES AND GERMAN MEASLES.

Cases notified 1916 classified according to the Municipal Ward in which they occurred:—

	1	Vard.		Measles.	German Measle
				71.7	
Town			 	87	6
St. Marys			 	47	6
Northam			 	61	12
Trinity			 	96	5
Newtown			 	52	II
All Saints			 	44	7
Bevois			 		II
Banister			 	47 86	22
Freemantle			 	62	12
Millbrook			 	99	19
Shirley			 	9.4	22
Portswood			 	21	10
St. Denys			 	6	31
14 19 19	Total			802	174

PUBLIC HEALTH (OPHTHALMIA NEONATORUM) RECULATIONS, 1914.

It has been estimated 25 per cent. of the cases of hopeblindness in this country are due to Ophthalmia Neonatorum. If early treatment is given the sight of the infant can generally be saved.

Under the Rules of the Central Midwives' Board, midwives are required to call in medical help for all cases of inflammation or discharge from the eyes, however slight, and under the Ophthalmia Neonatorum Regulations both midwives and medical practitioners have to notify the Medical Officer of Health of cases occurring in their practice.

All cases notified are immediately visited by one of the Health Visitors in order to secure efficient treatment being given.

There was a considerable increase in the number of cases recorded, the total received being 80, compared with 21 in the previous year. This number is equal to 28.9 per 1,000 births registered.

With regard to the distribution of the disease, the rates per 1,000 births in the Municipal Wards during the year were: Town 14.9, St. Mary 28.9, Northam 17.4, Trinity 38.6, Newtown 6.8, All Saints 40.2, Bevois 32.3, Banister 25.2, Freemantle 33.5, Millbrook 27.1, Shirley 59.4, Portswood 14.4, St. Denys 26.6.

CEREBRO-SPINAL FEVER.

Five cases of Cerebro-Spinal Fever were notified during the year among the civilian population of the Borough. This number is a decrease of nine cases compared with the previous year.

Three of the cases proved fatal, giving a mortality rate of 60 per cent.

In one of the cases the patient had visited a Military Hospital to see a patient, who was dying from Cerebro-Spinal Fever. The origin of the infection in the other four cases could not be traced.

The following Table gives particulars of the Cases Notified: --

CASES OF CEREBRO-SPINAL FEVER, 1916.

Bacteriological Result of Case. Examination.	Recovered	Died 20th April	Died 20th April	Died 2nd May	Recovered
Bacteriologica Examination	Positive I contact also	Positive. Ditto	Negative	Positive	Negative
Where Isolated.	Isolation Hospital Positive	Ditto	Ditto	Died before Not Positive incation. Inquest	F.M. Isolation Hospital Negative
	1		:	:	
c. Address	18 F Belgrave Road	F St. Denys Road	9 M Endle Street	2 F King Street	7 M Romsey Road
Ses	(II	E	M	H	M
Age. Sex.	18	61	6	24	7
	E.A.Q.	9 S.K.	15 F.W.	5 A.C.	W.A.W.
of ion.	4	6	15	5	29
No. Date of Name. Notification.	I April 4 E.A.Q.	April	April	May	5 Sept. 29 W.A.W.
NO.	Н	64	3	4	5

ACUTE POLIOMYELITIS.

Four cases of Acute Poliomyelitis were notified during the year. Details of the cases are appended:—

- (1) F.D., aged 14 years, St. Mary's Place. Notified 26th April. This boy was injured by falling off his bicycle on the 17th April, and was removed to the Royal South Hants and Southampton Hospital for an operation. He was notified to be suffering from Acute Poliomyelitis on the 26th April, and died on the 4th May. An inquest was held, the following being the cause of death entered on the Coroner's certificate: "From Infantile Paralysis, caused by injuries sustained by deceased from his falling off his bicycle on the 17th April, 1916, and that the death was accidental (P.M)."
- (2) W.S., aged 2 years, York Street. Notified September 30th. Out-patient at the Royal South Hants and Southampton Hospital. Paralysis of both legs—Atrophy—more prounounced on left side. Still attends at Hospital.
- (3) D.B., aged I year, Spa Court. Notified October 4th. Out-patient at the Royal South Hants and Southampton Hospital. Paralysis left leg, from hip, but is improving.
- (4) E.E., aged 7 years, Berkeley Road. Removed to Parish Infirmary. Notified December 14th. Died December 19th.

WHOOPING COUCH.

The number of deaths from Whooping Cough amounted to 27, which is 10 below that of the previous year, but 5 above the average of the previous five years. The disease was most prevalent in Town and St. Mary's Wards.

DIARRHŒA AND ENTERITIS.

The deaths from Diarrhæa, Enteritis, and Gastro-Enteritis amounted to 48, compared with 44 in 1915. Of the number 36 were under 2 years of age, which is equal to a rate of 13.0 per 1,000 births registered during the year, which compares favourably with the rate of 16.24 in the 96 great towns in England and Wales.

MILITARY CASES OF INFECTIOUS DISEASE AND DEATHS OCCURRING IN THE BOROUGH DURING THE YEAR.

INFECTIOUS CASES.

The following notifications were received of cases occurring in Military Hospitals or Rest Camp in the Borough:—

Scarlet F	ever		 	 5
Diphtheri	a		 	 ΙΙ
Cerebro-S	Spinal	Fever	 	 I
Erysipela	S		 	 I
Measles			 	 8
German 1	Measle	es	 	 23
				-
				49

Naval and Military cases of infectious disease admitted to the Isolation Hospital from various Camps and Hospitals in the neighbourhood, included Military cases landed in the Port:—

Small Pox				2
Scarlet Fever		·		28
Diphtheria				80
Enteric Fever				-
Measles and German	n Measl	es		95
Cerebro-Spinal Feve	r			18
Chicken Pox			·	3
Mumps				6
Erysipelas				3
Cases for observation	on			5
				237

DEATHS OF SOLDIERS REGISTERED IN THE BOROUGH DURING THE YEAR.

Small Pox				2
D: 1 1 :			 	
±			 	4
Enteric Fever			 	4
Paratyphoid Fe	ever		 	2
Tetanus			 	I
Dysentery			 	9
Cerebro Spinal	Fever		 	I
Cancer			 	I
Meningitis			 	I
Heart Diseases			 	3
Aneurysm			 	2
Bronchitis and	Pneum	onia	 	5
Nephritis			 	3
Other Diseases			 	4
Accidents			 	2
Suicide			 	I
Gunshot Wound	ls		 	74
				119

TUBERCULOSIS.

The total deaths from all forms of Tuberculosis among persons classified as residents of the Borough amounted to 190, from the following forms of the disease:—

Pulmonary Tuberculosis			161
Tuberculosis Meningitis			6
Tuberculosis of Peritoneum	and	Intes-	
tines			12
Tuberculosis of Spine			2
Tuberculosis of Hip			4
Tuberculous Pyosalpinx			I
Tuberculosis of the Skin			I
Disseminated Tuberculosis			3
			190

The total number of deaths recorded from all forms of the disease is 16 less than that of the previous years, Pulmonary Tuberculosis showing a decrease of nine deaths, and other forms of the disease a decrease of 7.

The death-rate from Pulmonary Tuberculosis amounted to 1.39 per 1,000 persons living. This rate is 0.06 lower than in 1915, and is the same as the average rate for the past five years.

The mortality amongst males was considerably lower than in the previous year—83 compared with 103—probably due to the war causing a large decrease in the male population at the susceptible age. The deaths of females, however showed an increase from 67 in 1915 to 78 in 1916; the death-rates calculated on the estimate male and female population were 1.56 and 1.19 respectively.

The death-rate for 1915 and 1916 is calculated on civil population as estimated by the Registrar-General.

DEATH-RATES FROM PULMONARY TUBERCULOSIS SINCE 1901.

Females.	Both Sexes.
1.01	1.37
1.23	1.49
0.83	1.15
0.92	1.26
0.87	I.22
0.95	1.38
0.84	I.II
0.91	1.15
0.91	1.36
0.76	1.23
1.17	1.58
0.88	1.33
0.92	I.2I
1.06	1.39
1.05	1.45
1.19	1.39
	1.23 0.83 0.92 0.87 0.95 0.84 0.91 0.91 0.76 1.17 0.88 0.92 1.06 1.05

The percentage of deaths from Pulmonary Tuberculosis during the year to cases notified during the same period is appended with the comparative figures for 1912—1916:—

		Males.	Females.	Both Sexes.
1912	 	 52.5	39.6	47.2
1913	 	 38.7	25.8	32.3
1914	 	 45.6	37.2	41.8
1915	 	 62.4	43.8	53.5
1916	 	 53.2	66.7	59.0

Of the cases dying in 1916 the following table shows the years in which the primary notifications were received. Compulsory notification of all cases of Pulmonary Tuberculosis first came into operation on the 1st January, 1912:—

1911				 	2
1912				 	4
1913				 	IO
1914				 	15
1915				 	31
1916				 	59
Died	before	notifica	tion	 	40
					161

The mortality from tuberculous diseases other than pulmonary was equal to a rate of 0.25 per 1,000 of the population, which is slightly lower than in the previous year, and compares favourably with the average, 0.34 for the past five years.

Table showing death-rates, per 1000 of the population, from Tubercular Diseases, from 1873 to 1915, grouped in periods of five years:—

	Pu	lmonary.	Other Tubercular Diseases.	Total Tubercular Diseases.
1873-1876 (4 years)		-		2.79
1877-1880 (4 years)		2.II	0.68	2.79
1881-1885 (5 years)		1.86	0.63	2.49
1886-1890 (5 years)		1.72	0.50	2.22
1891-1895 (5 years)		1.56	0.68	2.24
1896-1900 (5 years)		1.49	0.57	2.06
1901-1905 (5 years)		1.30	0.51	1.81
1906-1910 (5 years)		1.25	0.41	1.66
1911-1915 (5 years)		1.39	0.34	1.73
1916		1.39	0.25	1.64

Summary of Notifications received under the Public Health (Tuberculosis) Regulations, 1912, during the 52 weeks ended 1st January, 1917.

Form	A	 	 	337
,,	В	 	 	II
,,	C	 	 	167
,,	D	 	 	159
				674

NUMBER OF PRIMARY NOTIFICATIONS RECEIVED DURING THE YEAR 1916.

Localisation of Diseas	e.		Males.	Females.	Total.
Pulmonary. Lungs			150	114	264
Lungs and Larynx			2	2	4
Pleuræ			I		I
" Meninges			I		I
" Glands of Neck				I	I o
,, Neck and Ankle			I	•••	I
Larynx			I		I
Total Pulmonary			156	117	273
Non-Pulmonary.					
Meninges of Brain Peritoneum and Intestines Cervical Glands Spine			 4 17 1	3 5 8 1	3 9 25 2
Hip			2		2
Knee			2	I	3
Ankle and Joint of Foot			I	I	2
Face and Foot			I		I
Skin	***	• • • •	I		I
Spermatic Cord			. I		I
Total Non-Pulmonary			30	19	49
Total of Primary Notifications:- Pulmonary Non-Pulmonary			156	117	273 49
			186	136	322

The following table shows the age and sex incidence of the disease:—

PRIMARY CASES NOTIFIED DURING THE YEAR 1916 (52 WEEKS ENDED 30TH DECEMBER, 1916), TABULATED ACCORDING TO AGES AND SEX.

	o to I	to 5	5 to 10	to to	15 to 20	20 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 and up- wards.	Total.
Pulmonary. Males Females			9.8	14	11 18	13	42 30	33	16 8	12	6 2	156 117
Total of Pulmonary		1	17	24	29	30	72	53	24	15	8	273
Non-Pulmonary. Males Females	 I	5 9	11 6	3	6 I	2 I	2	I			:::	30 19
Total of Non-Pulmonary	ı	14	17	3	7	3	2	2				49
Total all forms of Tuberculosis	I	15	34	27	36	33	74	55	24	15	8	322

The following table has been drawn up in the form suggested by the Local Government Board:—

13

PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1912.

SUMMARY OF NOTIFICATIONS DURING THE PERIOD FROM 2ND JANUARY, 1916, TO

THE 30TH DECEMBER, 1916.

	13							
Sanatori		0	2.	59		I	1	
Poor Law Institu-	tions.		43	5		H	1	
Total	on Form B.		6	I		1	I	
of ns.	Total		6	н		1	н	
nary	to to I5		61	1		1	1	
uml Prin	5 to Io		9	н		1	Н	
ZZ	Un- der 5		1	1		1	1	
Total			154	121		32	20	
ns.	Total		147	911		30	18	
	65 & up- wards		9	01		1	1	
catic	55 to 65		12	3		1	1	
otifi	45 to 55		91	00		1	1	
Z	35 to 45		33	20		н	н	
mar	25 to 35		42	30		61	1	
Pri	20 to 25		13	17		61	н	
r of	15 to 20		II	81		9	1	
mbe	to to 15		II	01		m	1	
Nu	to		3	7		11		
	1000		1	н		5		
1	0 t 1		1	1		1		
Age Periods.		Pul nonary—	Males	Females	No -Pulmonary-	Males	Females	
	Number of Primary Notifications. Total Poor Poor Primary Total Law Law Institu-	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	ods. Number of Primary Notifications. Number of Primary Total Notifications of to	ods. Number of to	ods. Number of Primary Notifications. Number of Primary Notifications Total Notifications Total Notifications Institutions I	ods. Number of Primary Notifications. Number of Primary Notifications Total to	ods. Number of Primary Notifications. O	ods. Number of Primary Notifications. Total Number of Primary Total Notifications Number of Primary Total Notifications Number of Primary Total Notifications Notifications I

TUBERCULOSIS. SOCIAL POSITION OF NOTIFIED CASES.

D -111 - 1- 116	Mala	Fem	ales.	'Con	Donahton	Tatal
Position in Life.	Wife or Sing		Single (Adults).	Son	Daughter	Total.
Apprentice		_		manne	_	I
Baker		-	-	I	_	2
Blacksmith		I				2
Boilermaker		_		-		2
Bookbinder	-	_	I			I
Boot Repairer Bottle Washer		3				4
D. 111 0. D			I	_		I
D. 4 -1				2 I		4
Conton Managan				1	1000	2
0 17'					-	3
Coumon	-	I		2	1	4
Chaumaman			I	I		3 2
Ch.f			1	1		I
Claule	6	3	4	2	2	17
Club Steward		3	1	_		I
Commercial Traveller				_		I
Coal Porter		I	_		_	3
Collector		_		_	_	3
Customs Officer		_		I	_	I
Draughtsman		_	_	_		I
Dressmaker		_	3		_	3
Dustman		_		_	_	2
Domestic Servant		-	8	2	-	10
Electrician		I	_	_		3
Engineer		_	_	I	2	4
Errand Boy		_	_		_	2
Factory Worker	. I	_	I	_	_	2
Fitter	. I	I	_	2	-	4
Gardener	. I	-		-	_	I
Hairdresser	. 2	I		_	-	3
Hawker	. 4	_	_	_	-	4
Housekeeper		2	_	-		2
Housewife		3	-	_	-	3
Insurance Agent		_	-	-	I	2
Journalist		_	_	-	_	I
Lamplighter		-	_	_	-	I
Lodging House Keeper	-			I		I
Labourer	. 22	II	_	7	II	51
Laundress Licensed Victualler and	-		2	I	-	3
D	2	,	The state of the s	1		
Machiniat	1	_ I			I	5
Man Polder					I	I
Manchant				1	-	I
Metal Worker		_				2
Mission Worker		1	I	_		I
Munition Worker		_	ī		I	2
Music Hall Attendant	I	_	_	_		I
Musician					_	2
Nurse		_	2	_	_	2
Painter		_	_	_		5
Plaster Moulder	1 222				_	1 2
Police Constable		_		_	I	2
Porter-Shop		_		2		2

SOCIAL POSITION OF NOTIFIED CASES—(Continued).

Position in Life.	Males.	Fem	ales.	Son	Daughter	Total.
rosition in Life.	males.	Wife or Widow. Single (Adults).		of	of	Total.
Porter—Railway Printer Sawyer School Teacher Seaman Signalman Ship's Barman Ship's Cook Ship's Fireman Ship's Officer Ship's Steward Ship's Stoker Shipwright Shop Assistant Shop Assistant Shopkeeper Stevedore Stevedore Stevedore Stonemason Surveyor Tinsmith Tram Driver Tailor or Tailoress Upholsterer Warehouseman No Occupation Occupation unknown	1	7 		- I I I I I I I I I I I I I I I I I I I		1 1 1 1 19 1 1 3 8 2 14 4 2 2 10 7 24 2 2 1 1 5 1 1 2 1 1 2 1 2 1 1 2 1 2 1 2
Total	143	62	39	43	35	322

TUBERCULOSIS.

TABLE showing cases, case-rate, deaths, and death-rate from Pulmonary and Non-Pulmonary Tube culosis in each of the Municipal Wards during the year 1916 (52 weeks ended 30th December, 1916):—

Non-Pulmonary
Number Rate
400
5 0.51
49 0.42

The compulsory notification of Pulmonary Tuberculosis has now been in operation for five years, 1912-1917, and of cases of Non-Pulmonary Tuberculosis for four years. The average case-rate for these periods in each of the Municipal Wards is shown in the appended table. The highest case-rates are in Town, St. Mary's, and Northam Wards, and the lowest in Banister and Freemantle Wards.

The average death-rates are also given in the same table for five years, 1912-1917, and again the highest rates are in Town, St. Mary's, and Northam Wards, and the lowest in Freemantle and Banister Wards.

TUBERCULOSIS.

Average case-rates and death-rates per 1,000 of the population from Tuberculosis in Municipal Wards during the five years 1912-1917.

			(CASE-RAT	E.	DEATH RATE.			
Ward.			Pulmonary.	Non- Pulmonary.	Total.	Pulmonary.	Non- Pulmonary.	Total.	
1. Town 2. St. Marys 3. Northam 4. Trinity 5. Newtown 6. All Saints 7. Bevois 8. Banister 9. Freemantle 10. Millbrook 11. Shirley 12. Portswood 13. St. Denys			4.63 3.39 3.29 2.34 2.68 2.71 3.16 1.82 2.24 2.93 2.29 3.39 3.06	1.06 0.89 0.96 0.73 0.72 0.63 0.77 0.27 0.31 0.37 0.58 0.50 1.11	5.69 4.28 4.25 3.07 3.40 3.34 3.93 2.09 2.55 3.30 2.87 3.89 4.17	2.56 1.65 1.70 1.19 0.89 1.20 1.15 0.92 0.84 1.51 0.97 1.34 0.99	0.60 0.45 0.33 0.24 0.29 0.16 0.32 0.19 0.21 0.21 0.29 0.30 0.14	3.16 2.10 2.03 1.43 1.18 1.36 1.47 1.11 1.05 1.72 1.26 1.64	
Borough			2.99	0.71	3.70	1.35	0.31	1.66	

DIAGNOSIS, TREATMENT, AND PREVENTION OF TUBERCULOSIS.

RECORD OF DISPENSARY WORK FOR THE YEAR 1916:-

Name - diameter				
New patients—			0	
			108	
Dependents			201	
Others			25	
			334	
Visits of Patients	under	Ohs	ervation	
				1
Insured			549	
Dependents			1406	
Others			117	
			2072	
			2072	
Wisits of Deticate		. т.	00 400 00	
Visits of Patients				[
			6260	
Others	•••	• • • •	1024	
		-		
			12393	
		-		
57' '. ' 1 1 TT	1.1 37			
Visits paid by Hea of Tubercular p			to Hon	nes
Insured			1372	
Dependents			2154	
Others			482	
			4008	

Consultations at Homes of Patients between Tuberculosis Medical Officer and Private Doctors ...

RECORD OF NUMBER OF PATIENTS UNDER DISPENSARY TREATMENT DURING 1916:—

Pulmonary.	Non- Pulmonary.	
Number of cases under treatment on		
January 1st, 1916 200	5	_
New Cases treated 158	13	42
Cases transferred from Sanatorium 103	5	2
Cases transferred from Domiciliary		
treatment I	0	0
Cases transferred from General Super-		
vision 22	I	3
Cases transferred to Sanatorium 114	2	2
Cases transferred to Domiciliary treat-		
ment 34	0	0
Cases lost sight of (including removals		
from the Borough) 21	0	I
Cases who have finished treatment		
during the year and are now under		
General Supervision 41	12	13
Total under Dispensary treatment on		
January 1, 1917 274	10	31
Total number of notified cases under obs		
at the end of the year		748

Comparison with 1915 shows that there were 6 more new cases in 1916.

The number of visits paid by patients to the Dispensary was 14,465, or 746 more visits than in 1915.

The number of consultations at the patients' homes between the Tuberculosis Officer and the private practitioner was 57.

RECORD OF SANATORIUM WORK FOR 1916: -

	Insured.	Dependents.	Others.	Totals
Patients remaining in Sanato-				
torium, January 1st, 1916	25	7	3	35
Patients admitted during 1916	65	44	9	118
Patients discharged during 1916	68	34	8	IIO
Patients died in Sanatorium	6	5	3	14

Average duration of stay in Sanatorium of each patient	100 days
Number of Sputum examinations carried	
out for Medical Practitioners in the	
Borough	112 ,,

Whenever possible "Contacts" have been examined. Unfortunately, the time of the Dispensary Staff is very fully occupied in dealing with notified cases and those sent for diagnosis by practioners.

DENTAL TREATMENT.

Number of patients se	een	 30
Extractions		 21
Local Anæsthesias		 12
Fillings		 4
Dressings		 3

DIAGNOSIS.

The routine method of examination detailed in the Report for 1915 has been carried out in 1916 in all cases where there has been no contraindication.

TABLE SHOWING THE NUMBER OF DIAGNOSIS MADE DURING 1916, AND THE RESULTS OBTAINED.

		oe suffering com	Found		
	Pulmonary Tuberculosis.	Non- Pulmonary Tuberculosis.	Pre-tub- ercular.	Non- Tuber- culous	Totals
Previously notified cases	117	10	9	12	148
Sent by School Medical Officer for Diagnosis	17	3	28	26	74
Sent by Local Medical Prac- titioners for Diagnosis	55	3	3	26	87
House contacts	2	_		12	14
Suspected cases, other than house contacts	2	I	_	3	6
Totals	193	17	40	79	329

Six cases ceased to attend before the completion of diagnosis. Eighty-seven cases were sent by local Medical Practitioners.

The School Medical Officer submitted 74 cases for diagnosis during 1916. Of these 35 per cent, were found to be Non-Tubercular and 37 per cent. showed no active Tuberculosis, but were classed in the Pre-Tubercular group.

RESULTS OF SANATORIUM TREATMENT.

PULMONARY CASES.

Tables giving the results of treatment in patients suffering from Pulmonary Tuberculosis who were discharged from the Sanatorium during the year will be found on pages 55 to 62.

From these tables it will be seen that:-

In 24 patients the disease was of comparatively short duration; 49 were advanced, but showed prospects of considerable improvement, 34 were considered permanently incapable of work; and 8 were thought not to be likely to live longer than 6 months.

On discharge, in 36 cases the disease was arrested; 38 showed much improvement; 11 showed improvement; 6 showed no change; 8 were worse; and 16 died in the Sanatorium.

Non-Pulmonary Cases.

Four cases were admitted to the Sanatorium; I of these was discharged to the Royal South Hants Hospital for operation. The other 3 were discharged cured.

RESULTS OF TREATMENT IN PATIENTS DISCHARGED

FROM THE MUNICIPAL SCHEME DURING 1916.

PULMONARY CASES.

Treatment was concluded under the Scheme in 86 cases during the year. This is a smaller number than in 1915, and

rs due to a rather different scheme of treatment being followed out. The higher proportion of cases able to follow regular employment seems to justify the longer period of treatment, both at the Sanatorium and the Dispensary.

When the above 86 cases first came under observation 32 were in the first stage, 23 in the second stage, and 31 in the third stage.

Thirty-two of these cases were of recent onset, 32 were advanced, but showed prospects of considerable improvement, 18 were never likely to return to work, and 4 were not expected to live over 6 months.

On completion of treatment under the Corporation the disease was arrested in 45 cases, 16 showed improvement, 3 were the same, and 22 were worse.

Forty-six were able to return to full work, 23 could do light work, 11 were not able to work, and 5 were not expected to live 6 months.

Non-Pulmonary Cases.

Twenty-three cases completed treatment during the year, 19 were cured, 2 were considerably improved, 1 was the same, and 1 was worse.

TABULATED RESULTS OF TREATMENT IN PULMONARY CASES.

The tables which are appended show the results of treatment in those patients who were discharged from the Borough Sanatorium during the year 1916. A separate set of tables show the results for those patients who were discharged from active treatment under the Municipal Scheme during the same period.

The patients have been placed in three groups, and show in separate tables, those with:—

- (A) Tubercle Bacilli found in sputum.
- (B) Tubercle Bacilli not found in sputum.
- (C) Tubercle bacilli absent. Albumen present to the extent of 0.2 per cent. or more.

The patients in each group have been classified as to the stage of the disease at the time of coming under treatment; males and females being shown separately. The classification adopted being the Turban-Gerhardt (Imperial Board of Health). They have further been classified according to the method adopted in the Astor Report.

On discharge they have been classified according to their economic condition (working capacity) and also as to their physical condition.

The following are the details of the classification adopted :-

*Turban-Gerhardt Classification (Imperial Board of

HEALTH).

- STAGE I.—Disease of slight severity, limited to small areas of one lobe; that, for instance, in case of infection of both apices, does not extend beyond the spine of scapula and the clavicle, or in the case of affection of one apex, frontal, beyond the second rib.
- STAGE II.—Disease of slight severity, more extensive than I., but affecting at most the volume of one lobe; or severe disease, extending at most to the volume of one half lobe.
- STAGE III.—All cases extending beyond II., and all such with considerable cavities.

†Classification of Patients, Astor Report.

- (I) Cases in which the disease can be diagnosed or is strongly suspected, but in which there is no evident impairment of the working capacity.
- (2) Cases of recent onset with some impairment of the working capacity, but without marked evidence of ill-health.
- (3) Cases of recent onset with evidence of acute illness.
- (4) Cases of a longer history of illness. In some of these cases permanent arrest of the disease may be hoped for, but in the majority, restoration to full working capacity for more than a comparatively short period is not to be looked for.

- (5) Cases in which there is a permanent loss of working capacity. Many of these patients live for a considerable period in a condition of chronic ill-health.
- (6) Cases in which a fatal termination within six months is probable.

‡ECONOMIC CONDITION ON DISCHARGE FROM TREATMENT.

- (I) No evident impairment of working capacity.
- (2) Some impairment of working capacity.
- (3) Marked loss of working capacity.
- (4) Very marked loss of working capacity.
- (5) Very marked loss of working capacity and progress un favourable.
- (6) Probable fatal termination within 6 months.

TABLE I.

CLASSIFICATION OF THE IMMEDIATE RESULTS OF TREATMENT IN THOSE PATIENTS SUFFERING FROM PULMONARY TUBERCULOSIS DISCHARGED FROM THE BOROUGH SANATORIUM DURING 1916. (A) Tubercle Bacilli present.

	Total			:	67		4	7		26	61	58
	Many Many Many Many Many Many Many Many	Died.		:	:		:	н		9	5	12
		Worse.		:	:		:	:		3	6	9
	lition.	No change.		:	1		:	61		Н	H	5
	Physical Condition.	Im- proved.		:	:		:	I		3	5	.6
On Discharge.	Phys	Much improv'd		:	:		3	64		12	5	22
On		Disease arrested.		:	П		I	I		I	:	4
	Total			:	61		4	9		20	14	46
		9		:	:		:	:		н	:	н
	nic n.	5		:	:		:	:		H	61	8
	Economic Condition.	4		:	н		;	н		н	н	+
	Eco	3		:	:		:	64		4	9	12
		64		:	:		63	н		11	10	7 19 12
		н		:	н	_	63	61		61	_:_	1
	Total	Total		:	61		4	7		26	6 I	5.8
ion.		9		:	:		:	:		3	3	9
On Admission.	ion	10		:	:		:	:		31	OI	26
Ad	Classification (Astor).	4		:	н		3	4		4	3	8 IS 26
On	assi (As	60		:	:		н	н	6.	n	60	00
	2	64		:	H		:	63		:	:	1 00
		I		:	:		:	:		:	:	
Closeifontion	of Cases Turban-	demand.	Stage I.—	Males	Females	Stage II.—	Males	Females	Stage III.—	Males	Females	Totals

(R; Tubercle Bacilli absent.

					5	6						
	E	Lotal		5	6		9	13		2	1	45
		Died.		:	:		н	:			60	4
		Worse.		:	:		:	:		I	1	64
	ndition.	No change.		:	:			:		` ::	:	:
	Physical Condition.	Im- proved.		:	:		:	I		:	:	н
On Discharge	PI	Much improv'd		н	61		3	4		:	а	12
On		Disease arrested.		4	7		61	∞		4	I	26
	Total	Total		2	6		2	13		5	4	41
		9		:	:		:	:		н	:	н
	nic	5		:	:		:	:		:	:	:
	nom	4		:	:		:	:		:	н	н
	Economic Condition.	3		:	:		н	н		:	н	3
		.01	MIN	н	н		64	9		63	I	13
		-		4	00		61	9		61	н	23
	Total			5	6		9	13		5	7	45
ion		9		:	:		:	:		:	64	64
miss	ion	5		:	н		н	:		3	6	00
On Admission	Classification (Astor).	4	- University	:	:		н	3		:	61	9
On	Asi (Asi	0		61	н		61	4		н	:	10
	2	61		3	1		63	9		н	:	oi ei
	Ì	н		:	:		:	:		:	-	
Classification	of Cases Turban- Gerhardt		Stage I.—	Males	Females	Stage II	Males	Females	Stage III.—	Males	Females	Totals

(c) Tubercle Bacilli absent. Albumen present to the extent of 0.2 per cent or more.

					57							
	E	lotai		3	:		4	2		:	61	12
				:	:		:	:		:	:	:
		Worse		:	:		:	:		:	:	:
	ondition.	No		:	:		:	:		:	I	I
arge.	Physical Condition.	Im- proved			:		:	:		:	1	н
On Discharge.	1	Much improv'd		I	:		:	3		:		4
		Disease arrested		7	:		а	61		:	:	9
-	Total	Total		3	:		CI	5		:	61	12
	-	9		:	:		:	:		:	:	:
	0 :	5		:	:		:	:		:	:	:
	omi	4	-0	:	:		:	:		:	н	н
	Economic Condition.	60		:	:		:	н		:	н	61
	CH	61		н	:		:	61		:	:	3
		-		61	:		64	64		:	:	9
	Total	10101		3	:		63	10		:	63	12
on.		9		:	:_		:	:		:	:	:
issi	non	10		:	:		:	:		:	:	!_
On Admission.	(Astor).	4		:	:		:	٦	X	:	63	6
On .	Classification (Astor).	60		64	:		61	3		:	·:	7
	C	7		н	:		:	:		:	:	н
		-		:	:		:	н		:		н
Classification	of Cases Turban-	demande	Stage 1.—	Males	Females	Stage II	Males	Females	Stage III.—	Males	Females	Totals
Clas	Turi		Stage			Stag	M	Fe	Stag	M	Fe	To

SUMMARY OF THE THREE PRECEDING TABLES.

	Total	Total		∞	II		12	25		31	28	115
		Died.		:	:		I	I		9	00	91
		Worse.		:	:		:	:		4	4	80
	ondition.	No change.		:	I			2		I	61	9
ge	Physical Condition.	Im- proved.		:	:		:	61		3	9	11
On Discharge	Ь	Disease Much arrested improv'd		61	63		9	6		12	7	38
0		Disease arrested.		9	00		5	11		5	I	36
	Total	Total		00	II		II	24		25	20	66
		9		:	:		:	:		64	:	- 61
	c n.	5		:	:		:	:		н	64	3
	Economic Condition.	4		:	н		:	н		н	3	9
	con	3		:	:		н	4.		4	00	17
	HO	61		61	н		4	6		13	9	35
		н		9	6		9	01		4	н	36 35 17
	Total	101		00	II		12	25		31	28	115
on.		9		:	:		:	:		3	52	∞
On Admission	ion	2		:	н		н	:		61	13	34
Adn	ficat tor)	4		:	н		4	00		4	7	24
On	Classification (Astor)	3		4	н		5	00		4	0	25
	C	61		4	∞		64	00		Н	:	23
		н		:	:		:	н		:	:	н
Classification	of Cases Turban-	Congress	Stage I.—	Males	Females	Stage II.—	Males	Females	Stage III.—	Males	Females	Totals

TABLE II.

CLA SIFICATION OF THE IMMEDIATE RESULTS OF TREATMENT IN THOSE PATIENTS SUFFERING FROM PULMONARY TUBERCULOSIS WHO WERE DISCHARGED FROM ACTIVE TREATMENT UNDER THE MUNICIPAL SCHEME DURING THE YEAR 1916.

(A) Tubercle Bacilli present.

				39								
	Total	Toral		н	64		61	3		15	12	35
		Died.		:	:		:	:		:	н	I
*		Worse.		:	I		н	33		9	7	18
	Physical Condition.	No change.		:	:		:	:		63	н	6
.ge.	Physical	Im- proved.		:	:		:	:		4	H	25
On Discharge.		Much improv'd		:	. I		:	:		64	н	4
0		Disease arrested.		н	:		I	:		н	н	4
	Total			I	2		61	3		15	11	34
		9		:	:		:	н	-	н	61	4
	ic n.	5		:	н		н	63		3	60	loi
	Economic Condition.	4		:	:		:	:		4	61	9
	Econ	60		:	:		:	:		4	61	9
	70	61		:	н		:	:		63	н	4
		н		н	1		н	:		н	н	4
	Total	Total		н	61		73	60		15	12	35
sion.		9		:	:		:	:		63	61	7
mis	tion	5		н	:		:	:		00	9	15
On Admission.	Classification (Astor).	4		:	н		61	3		4	3	13
On	assi (As	60		:	:		:	:		н	н	- 4
	D	64		:	н		:	:		:	:	н
		н		:	:		:	:		:	:	:
Classification	of Cases Turban-	delination	Stage I.—	Males	Females	Stage II.—	Males	Females	Stage III.—	Males	Females	Totals

(B) Tubercle Bacilli absent.

					(00						
	Total	1014		14	13		00	6		н	6	84
		Died.		:	:		:	:		:	:	:
		Worse.			:		:	:		н	п	60
	Physical Condition.	No change.		:	:			:		:	:	:
	Physical	Im- proved.		:	:		:	I		:	:	ı
On Discharge.		Much improv'd		1	н		ı	:		:	н	4
On Di		Disease arrested.		13	12		7	80		:	:	40
	Total	Total		14	13		00	6		I	6	48
		9		:	:		:	:		н	:	н
	ic .	5		:	:		:	:		:	н	I
	ition	4	1	:	:		:	:		:	н	н
	Economic Condition.	3		:	:		н	н		:	:	10
	O	CI		н	:		:	4		:	:	3
		I		13	13		1	9	,	:	н	40
	Total	Total		14	13		00	6		н	67	84
on.		9		:	:		:	:		:	:	:
issi	ion	5		:	:		:	:		н	64	3
Adn	assificat (Astor).	4		3	:		4	63		:	н	5 10
On Admission.	Classification (Astor).	60		:	:		н	4		:	:	ro.
	C	61		90	00		co	3		:	:	22
		н		3	5		:	:		:		00
(laceifootion	of Cases Turban-		Stage I.—	Males	Females	Stage 11.—	Males	Females	Stage III.—	Males	Females	Totals

(c) Tubercle Bacilli absent. Albumen present to the extent of 0.2 per cent. or more.

											-	
	Total			61	:		:	٠.		:	:	3
		Died		:	:		:	:		:	:	:
		Worse		:	:		:	:		:	:	:
	ondition.	No		:	:		:	:		:	:	
arge.	Physical Condition.	Im- proved		:	:		:	:		:	:	:
On Discharge.		Much improv'd		ı	:		:	H		:	:	и
		Disease arrested		1	:		:	:		:	:	I
	Total	10141		8	:		:	ı		:'	:	0
		9		:	:		:	:		:	:	:
	0 :	5	11/1/2	:	:		:	:		:	:	1
	omi	4		:	:		:	:		:	:	:
	Economic Condition.	6		:	:		:	:		:	:	:
	HO	64		:	:		:	н		:	:	Н Н
		н		61	:		:	:		:	:	(1
	Total	10141		63	:		:	Н		:-	: ,	3
on.		9		:	:		:	:		:	:	:
nissi	ion	20		:	:		:	:		:	:	:
On Admission.	Classification (Astor).	4		:	:		:	:		·:	:	:
On .	assit (As	3		1	:		:	н		:	:	13
	S	.4	4	н	:		:	:		:	:	н
		н		:	:		:	:		:	:	
Torreit Contion	of Cases Turban-	Gernardt	Stage 1.—	Males	Females	Stage II	Males	Females	Stage III.—	Males	Females	Totals

SUMMARY OF THE THREE PRECEDING TABLES.

	Total	rotal		17	15		10	13		91	15	86
		Died.		:	:		:	:		:	I	I
		Worse.		:	н		н	60		7	6	21
	ondition.	No change.		:	:			:		61	н	3
rge.	Physical Condition.	Im- proved.		:	:		:	н		4	н	9
On Discharge.	I	Much improv'd		13	61		н	ı		13	а	oi
		Disease arrested.		15	12		∞	80		H	Н	.45
	Total	Total		17	15		10	13		91	14	85
		9		:	:		:	н		63	63	5
	ic n.	5		:	н		н	63		3	4	II
	Economic Condition.	4		:	:		:	:		4	3	7
	Scor	3		:	:		н	н		4	4	00
	ПО	64		н	н		:	3		4	н	∞
		н		91	13		8	9		_н	0	46
	Total	Total		- 41	15		0I	13		91	15	98
ion.		9		:	:		:	:		64	11	4
On Admission.	ion	5		н	:/		:	:		6	00	18
Adr	assificat (Astor).	4		3	н		9	2		4	4	23
On	Classification (Astor).	3		н	:		н	10		н	н	6
	2	61		6	6		3	60		:	:	24
		н		3	5			:		- 1		_ ∞
S. S	of Cases Turban-	Gernardt	Stage I.—	Males	Females	Stage II.—	Males	Females	Stage III.—	Males	Females	Totals

CANCER.

The deaths from Cancer amounted to 143 during the year. This is a slight decrease compared with the previous year, when the number of deaths recorded amounted to 150.

The death-rate from the disease was 1.25 per 1,000 of the population, the average for the previous 10 years being 1.03.

The number of deaths of males and females and the deathrate from this disease of residents of the Borough since 1905 is appended:—

		Males.	Females.	Total.	Death Rate.
1905	 	36	56	92	0.83
1906	 	35	67	102	0.91
1907	 	51	74	125	1.10
1908	 	38	69	107	0.91
1909	 	52	53	105	0.90
1910	 	· 61	74	135	1.15
1911	 	60	65	125	1.05
1912	 	54	55	109	0.90
1913	 	53	86	139	1.12
1914	 	00	65	125	1.01
1915	 	71	79	150	1.28
1916	 	63	80	143	1.23

The incidence of deaths from Cancer in the Municipal wards, since 1911, is shown in the following table:—

Table showing death-rate from Cancer in the Municipal wards for the year 1916, and the average death-rate for the five previous years, 1911 to 1915:—

	Ward.		- 5-5 .	I	Death-rate,	Average Death-rate, 5 years, 1911—1915.
I.	Town				1.78	1.34
2.	St. Marys				I.12	0.92
3.	Northam				0.66	1.01
4.	Trinity				I.44	1.16
5.	Newtown				1.31	I.02
6.	All Saints				I.72	1.10
	Bevois				1.31	1.50
8.	Banister				0.69	1.40
9.	Freemant	le			0.94	1.09
IO	Millbrook				0.97	0.97
II.	Shirley				1.83	0.92
12.	Portswood	l			0.80	0.88
13.	St. Denys				1.33	0.71
Во	rough				1.23	1.07

The localization of the disease in those persons who died from Cancer during 1916 is shown in the following table:—

				Males.	Females.	Total.
Mouth	•••		••••	I		I
Cheek	•••		•••	I	_	I
Tongue				8	_	8
Jaw	•••			3	I	4
Pharynx				-	I	I
Œsophagus				4	I	5
Stomach				7	4	II
Pylorus		·		I	I	2
Liver				5	8	13
Intestines				5	2	7
Colon				_	3	3
Sigmoid				2	2	4
Rectum				4	6	10
Uterus				_	22	22
Ovary				_	5	5
Labia				_	I	I
Vulva				-	I	I
Breast				_	20	20
Throat				2	_	2
Larynx				5	I	6
Lung				2	_	2
Mediastinum				3		3
Pancreas				2		2
Pelvis					2	2
Bladder				I	_	I
Prostrate				I	_	I
Skull				I		I
Femur			1	_	I	I
Thigh			1	I	I	2
Great Toe				I		I
Great 100						
				63	80	143
				_		13

ISOLATION HOSPITAL.

Six hundred and seventy-five patients were admitted to the Isolation Hospital and Hospital Ship. This is a decrease of 318 in the number of admissions, caused by the diminution in the number of cases of Scarlet Fever and Diphtheria occurring in the Borough during the year.

The number of admissions during the past six years is:-

1911	 574	 	1915	 799
1912	 585		1915	 993
1913	 660	 	1916	 675

The following table gives details respecting cases admitted during the year 1916:—

ISOLATION HOSPITAL.

Cases Isolated for Treatment.

THIS TABLE SHOWS ALL ADMISSIONS TO THE ISOLATION HOSPITAL AND HOSPITAL SHIP, AND INCLUDES ALL CASES REMOVED FROM VESSELS IN THE PORT, CASES ADMITTED FROM NEIGHBOURING DISTRICTS, AND NAVAL AND MILITARY CASES.

Case Mortality (Actual cases).	2.44 8.49 7.41	1
Average number of days in Hospital (Civil Cases discharged)	35.1 43.2 39.9	1
Remaining in Hospital, 31st Dec., 1916.	8 0 0 0 0 8 = =	62
Died.	1 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	48
Dis- charged.	201 222 29 29 109 17 17 3	693
Cases Admitted not proving to be disease notified or suspected.		26
Diagnosis confirmed at Hospital.	152 213 213 100 118 20 3	649
Total number of Admis- sions.	164 224 101 118 33 3	675
Cases Remaining in Hospital, 1st January, 1916.	35 1 1 1	128
DISEASE NOTIFIED OR SUSPECTED.	Small Pox Scarlet Fever Diphtheria Enteric Fever Measles and German Measles Tuberculosis Cerebro-Spinal Fever Chicken Pox Mumps Erysipelas Erysipelas Cases for Observation	Total

* Small Pox. † Including one death from Pneumococeal Meningitis and one death from Cerebral Tumour,

SCARLET FEVER.

One hundred and sixty-four cases of Scarlet Fever were admitted, being a decrease of 174 cases compared with the year 1916. Of the total admitted 28 were military cases.

The cases admitted were of a more severe type than is usual in Southampton, four of the cases being fatal. Twenty-one cases were complicated with purulent discharges from nose or ear, necessitating prolonged detention in Hospital. Operations for the removal of Tonsils and Adenoids were performed on 8 cases, or 4.9 per cent. of the total number admitted, compared with 1.8 per cent. in 1915. One operation of mastoidotomy was also performed.

DIPHTHERIA.

One hundred and sixty-four cases were admitted, being a decrease of 125 cases compared with the previous year. Eighty of the cases admitted were military cases.

The fatal cases amounted to 19, a decrease of 15 compared with the year 1915. Several of the fatal cases were in a serious condition on admission, 6 of them dying within 24 hours of admission.

The operation of Tracheotomy was carried out in four cases.

The following is a list with details of fatal cases which occurred in the Hospital:—

Initials.	Age.		of Dise	o. of days Hospital.	Remarks.
W.J.H.	 3		3	 9	 Purulent Adenitis and rhinorrhœa.
J.S.	 20		3	 19	 Military case suffering from Dysentery.
A.S.H.	 8		3	 I	 Toxæmia.
N.H.	 5			 II	 Heart failure.
P.B.	 5		_	 12	 Tracheotomy—Toxæmia
M.K.	 2		3	 2	 Heart failure
T.S.	 3		2	 2 hours	 Sudden Heart failure
A.F.			2	 2	 Paralysis, Heart failure
H.W.	 5 8		6	 3	 Hæmorrhagic case (New Forest R.D. case)
L.P.	 8		5	 10	
E.M.	 3		3	 I	
E.M.P.	 6	•••	6	 9 hours	

Initials.	Age.	of Dis		of Days	Remarks.
R.A.H.	 5	 5	 6	hours	 Septic case—Moribund
M.P.	 8	 5	 3	hours	 on admission Tracheotomy, Heart failure
F.H.B.	 6.	 6		6	 Septic case
D.S.	 7	 2		2	 Very Septic case
R.G H.	 7	 2		2	 Persistent Vomiting
W.N.	 44	 3		-	 Military case, also suffer- ing from Cancer
W.B.	 22	 ?	 	_	 Military case

MEASLES AND GERMAN MEASLES.

One hundred and one cases of Measles and German Measles were admitted during the year, 96 of which were naval or military cases.

One case which was admitted from a Transport from the Mediterranean proved to be a severe case of Hæmorrhagic Small Pox, and died four days after admission.

ISOLATION HOSPITAL AND HOSPITAL SHIP.

The following Table shows the Districts from which cases were admitted during the year 1916.

Disease. Notified or Suspected.	Boro'.	Port. (crew)	New Forest Rural.	Itchen Urban and South Stone- ham Rural.	Lyming ton Rural.	Hursley Rural.	Naval and Milit'ry Cases.	Total.
Small Pox	I						1	2
Scarlet Fever	130	I	4			I	28	164
Diphtheria	124	I	12	6	I		80	224
Enteric Fever	20	7						27
Measles and			1					
German Measles	3	3					95	IOI
Tuberculosis	118							118
Cerebro - Spinal			New A	12000				
Fever	4						18	22
Chicken Pox							3	3
Mumps							3 6	3 6
Erysipelas							3	3
Cases for Obser-								
vation	2						3	5
Total	402	12	16	6	I	I	237	67

Comparative Mortality of Cases, occurring in the Borough, treated in the Isolation Hospital and outside.

	Whole I	Borough	Treated Isolation	l in the Hospital.	Treated at Home and in other Institutions.	
1 isease.	Total Number of cases notified.	Case Mortality per cent.	Number of ases.	Case Mortality per cent.	Number of cases.	Case Mortality per cent.
Scarlet Fever	 187	2.14	130	3.08	57	1.75
Diphtheria	 172	9.30	124	11.29	48	4.17
Enteric Fever	 23	13.04	13	13.08	10	10.0
Totals	 382	6.02	267	7.49	115	3.48

LABORATORY REPORT.

At the end of the year 1915 all laboratory work was transferred from the Borough Isolation Hospital to the Municipal Dispensary. A properly equipped Laboratory was already provided when the Dispensary was first opened.

During the year all Laboratory work, including that from the Borough Isolation Hospital, has been done at I, East Park Terrace.

A large amount of Bacteriological work has also been undertaken for the Reception Hospital, Rest Camp, Common, and various Military Hospitals in the Borough

The following is a resumé of the work done during the year:—

DIPHTHERIA (Swabs).

Civilian Military		 	 1134 590
	Total	 	 1724

EXAMINATION OF "CONTACTS."	
Civilian Cases Military Cases	32 127
Total	159
CEREBRO-SPINAL FEVER.	
Swabs from cases suffering from the	
Swabs from "Contacts."	49 72
Total	121
Examinations of Cerbro-Spinal Fluid	14
SPUTUM EXAMINATIONS.	
Specimens sent by Practitioners ,, ,, the Military ,, from the Tuberculosis	66
Department	258
Total	436
Estimations for the Albumen content	
of Sputum	140
Examinations of Fæces for Typhoid	
group Bacilli Widal Examinations	109
Bacteriological Examination of Urine	20
Blood Cultures	8
Widal Examinations Bacteriological Examination of Urine Blood Cultures Malaria Miscellaneous Examinations	7
Total Examinations made-	-2753

The amount of work done during 1916 was in excess of that in 1915. This is especially seen in the number of Sputum Examinations. During 1915 51 specimens of Sputum were sent by Medical Practitioners; in 1916 the number had risen to 112, exclusive of 66 specimens sent by Military Medical Officers.

Examinations for Pathologial Organisms in fæces also showed an increase of 89 over 1915.

The presence of several cases of Cerebro-Spinal Fever in the Town and in Military Camps in the Borough introduced new work in the bacteriological routine.

A satisfactory feature of the work is the increasing number of Specimens for examination from Medical Practitioners, showing as it does an appreciation of the help given them in the diagnosis of doubtful or difficult cases.

The Laboratory has also been a source of considerable help to the Military.

The amount of work done during the year compares favourably with that done in some Laboratories employing a whole-time Bacteriologist.

OUTBATHING STATION AND AMBULANCE SHED, AND DISINFECTOR, WEST QUAY.

These premises are used for the purpose of disinfection and bathing of persons who have been in contact with infectious disease, particularly for contacts of cases of infectious disease landed by vessels arriving in the Port.

The buildings also contain an observation ward for suspicious cases of sickness arriving in the Port, and the premises are further used as a discharge block in connection with the Hospital Ship.

The following is a list of the contacts and the discharged cases from the Hospital Ship bathed and disinfected at West Quay during the year: —

Small Pox cases	 	 2
Scarlet Fever contacts	 	 19
Measles contacts	 	 19
Scabies cases	 	 3

Owing to the School Clinic now being open to receive cases no children were treated at West Quay in connection with the Medical Inspection of School Children.

There was a large decrease in the amount of disinfection work done at the Disinfecting Station at West Quay during the year, owing to the fact that the disinfection of bedding, etc., is now carried out by the Admiralty and Military Authorities in steam disinfectors they have erected for this purpose.

The following is a list of articles disinfected in the Steam Disinfector at West Quay, including articles removed from the Port:—

Beds and Ma			 9,598
Bolsters and			 8,985
Blankets and	Quilts	 	 31,626
		 	 4,046
Counterpanes		 	 771
Books		 	 526
Sundries		 	 21,300
	Total	 	 76,852

MIDWIVES ACT, 1902.

The number of Midwives who notified their intention of practising in the Borough during the year amounted to 39, an increase of 6, compared with 1915.

Twenty-four of the Midwives were trained nurses, having obtained their certificates by reason of passing an examination in Midwifery, the remaining 15 were untrained, having obtained certificates owing to their having been in practice one year before the passing of the Act.

The number of women in childbirth who were delivered by Midwives during the year amounted to 1,970, of which 1,908 were live births and 62 still births. The total number of births registered during the same period was 2,770, the percentage of live births attended by Midwives was, therefore, 68.9.

The following table shows the percentage of women in childbirth attended by Midwives and the percentage of still births to total births attended during the last 7 years:—

Year.	Number of Live Births Registered.	Number of Live Births attended by Midwives.	Number of Still Births attended by Midwives.	Percentage of Live Births attended by Mid- wives to Births registered during same period.	Percentage of Still Births among Births attended by Midwives.
1910	2926	1960	58	67.0	2.9
1911	2849	1973	58 63 65	69.4	3.1
1912	2806	1996	65	71.1	3.2
1913	2957	2023	56	68.4	2.7
1914	2949	2008	70	68.t	3.4
1915	2707	1938	66	71.6	3.3
1916	2770	1908	62	68.9	. 3.I

The following notices were received and inspections made during the year:—

Notices r	eceived of				39
,,	,,	sending			
		help		 	254
"	,,	still birt	hs	 	43
Inspection	as and vis	sits		 	113

The following is a list of complications for which medical help was requisitioned during the year:—

MOTHER.

Abnormal Presentation Prolonged Labour Ruptured Perinæum Ante or Post Partum Hæmorrhage Retained Placenta or Membranes Rise of Temperature Abortion or Premature Birth Still Birth Eclampsia Other causes	 25 26 26 13 5 14 27 3 2
	161
CHILD.	
Opthalmia Neonatorum	 55
Pemphigus	 4
Feebleness of Child	
Talipes	 I
Talipes Other Causes	 ΙI
	92

Inspections were made during the year at the residences of the Midwives of registers, bags and appliances. As a rule these were found in good order; notice to comply with the Rules of the Central Midwives' Board was given in those cases in which neglect was found.

As in previous years lectures were occasionally given to Midwives in the Borough by members of the Medical Staff of the Health Department in connection with the Midwives' Association.

Eight cases of Puerperal Fever were notified, being an increase of four compared with the previous year. This number is equal to a rate of 0.07 per 1,000 of the population, the rate for England and Wales being 0.06 and for the County Boroughs of England 0.08.

The number of deaths recorded was two, this being exactly the same number as occurred in each of the previous seven years.

Two of the cases were removed to the Royal South Hants and Southampton Hospital for treatment, four were removed to the Parish Infirmary, and two were treated in their homes.

In all the above cases the Midwives and Nurses were given a disinfecting bath at the Isolation Hospital on ceasing attendance on the patient, and thorough disinfection of all articles likely to convey infection was carried out.

CENERAL ROUTINE WORK.

Summary of Inspections and of Work carried out.

General Ins	pection of Houses and re-visits		25,357
Inspections	on complaint		275
,,	under the Housing, Town Planning, &	.c.,	
,,	Act, including the supervision of wo		
			2 080
	in progress		2,089
,,	of Factories		24
,,	of Workshops and Workplaces		1,618
,,	of Laundries		91
,,	of Bakehouses		548
	under the Shops Act		1,646
,,	of Claushtanhanas		3,032
,,			
,,	of Butcher Shops		5,126
,,	of Sausage Factories		1,009
,,	of Wholesale Stores, Markets, etc		1,285
.,	of Fish Shops		668
,,	of Horse Flesh Shops		164
	of Dairies, Cowsheds, and Milkshops		745
,,			
,,	of Ice Cream Factories and Shops		102
,,	of Common Lodging Houses		1,242
,,	of Houses Let in Lodgings		518
,,	of Courts and Alleys		1,245
,,	of Stable Yards, Mews, etc		1,390
,,	, , , , , , , , , , , , , , , , , , , ,		-,00

		3,507
", re Non-notifiable Infectious Disease (Scho	ool	
Absentees)		213
,, re Notification of Births		486
", re Void Houses		140
,, re Weekly Death Returns		66
" to Schools		27
Houses and Premises Disinfected		629
Preliminary Notices served for the Abatement	of	
Nuisances		978
Legal Notices served for the Abatement of Nuisand	ces	475
Nuisances abated by Verbal Notice		1,224
Drains tested with Smoke		130
,, ,, ,, Water		157
,, ,, ,, Water ,, found Defective ,, cleared and repaired		72
,, cleared and repaired		561
,, re-constructed		145
,, re-trapped		237
,, intercepted from sewer and ventilated		154
Inspection chambers provided to house drains		72
New soil pipes fixed on external walls of houses		29
Water-closets re-constructed		65
Urinals re-constructed and provided with means	of	
flushing		12
NT		246
Water laid on to water-closets		113
X7		43
Bath, sink waste-pipes, stack-pipes, &c., disco	on-	
nected from drains		171
		102
Premises drained to sewer		I
Damp walls of houses remedied		245
Houses cleansed and whitewashed		483
Roofs of houses repaired		303
Eaves, guttering, and stack-pipes repaired		189
D C1 CC ' (1 C'1)		118
Window-sashes made to open		134
Flooring, windows, etc., repaired		191
Ground floor ventilation provided under rooms		117
Means of light and ventilation provided to water-clo	sets	15
Yards paved and drained		150
Yard paving repaired		211
Sanitary dust-bins provided to houses		42
Overcrowding in houses abated		12
Courts re-limewashed		25
Nuisances from keeping animals, etc., abated		4

Manure vaults constructed	6
,, and offensive matter removed	160
Streams cleansed	I
Stables paved and drained	3
Pig-styes ,, ,,	I
Cellar dwellings abolished	2
Privies abolished	I
SOUTHAMPTON CORPORATION ACT, 1910.	
During the year 192 notifications were received	with
respect to the repair and alteration of drainage in complia	
with Section 51 of the above Act.	
The following works were carried out and supervised	d by
the Department after notification:—	
Premises drained to the sewer	I
Drains re-constructed	58
,, cleared	95
,, repaired	95
,, ventilated	34
Intercepting traps fixed	39
Inspection chambers constructed	39
New traps fixed	72
New soil pipes fixed	12
Bath, sink, waste pipes, &c., disconnected from drains	30
Sanitary sinks provided	18
Water-closets re-constructed	
Water laid on to water-closets	21
New pans fixed to water-closets Urinals re-constructed	81
Urinals re-constructed	2
External light and ventilation provided to water-closets	15
Stables paved and drained Flushing apparatus provided to urinals	. I
Flushing apparatus provided to urmais	3
DRAINACE UNDER THE NEW BUILDING BYE-LAW	S.
	0
During the year 97 plans were submitted, of which were approved and 10 disapproved.	1 87
The approved plans comprise:—	
Dwelling-houses	0
Alterations and additions	15
Dwelling-houses	38
miscentification buildings	50

Houses	completed					 37
Stables						 I
	ons and addit					 12
	neous building					 5
Number	of inspection	s during	g prog	ress o	f work	 1,022
,,	,, drains tes	sted and	l re-te	sted		 210

POLLUTED WELLS.

One sample of water was taken and submitted to the Public Analysis. The same was found on analysis to be polluted and unfit for drinking or domestic purposes.

The result of the analysis was forwarded to the Military Authorities (the occupiers of the premises) and a supply of water was laid on to the house from the public main.

OFFENSIVE TRADES.

The following offensive trades are carried on in the Borough: Gut Scraper I, Tallow Melter I, Tripe Boiler I, Dealers in Rags, Bones, etc., 7, Fish Friers 23.

The premises are regularly inspected and were found during the past year generally in a satisfactory condition.

SLAUGHTERHOUSES.

There are 34 Slaughterhouses in the Borough, 32 of which are in use.

Three thousand and thirty-two visits were made, and the premises generally were kept in a satisfactory condition.

MEAT AFFECTED BY TUBERCULOSIS SEIZED OR SURRENDERED.

		In Slaughter- houses.	In Shops.	Weight.
Carcases of Beef	 	 3	-	2,232 lbs.
" Pork	 	 4	I	610 lbs.
Part carcases of Beef	 	 13	_	482 lbs.
, " Pork	 	 4	5	801.s.

FOOD INSPECTION.

In the inspection of food the following visits were made to premises where food is prepared, stored, or sold:—

Slaughterhouses	 3,032
Butcher Shops	 5,126
Sausage Factories	 1,009
Wholesale Stores, Markets, etc	 1,285
Fish Shops	 668
Ice Cream Factories and Shops	 102

The following is a summary of the diseased or unsound food destroyed during the year:—

BEEF.

Whole carcase	S		 	3	
Quarters			 	6	
Livers			 	55	
Lungs			 	30	
Hearts			 	4	
Tongues			 	3	
Mesenteries		• • • •	 	5	
Stomachs			 	5	
			 	0	
Tails			 	2	11 -
Sundry pieces	of b	eet		765	IDS.
Total weight	of b	eer	 4,839	IDS.	

PORK.

Whole	carcas	es		 	5	
Heads				 	7	
Offals				 	3	
Livers				 	3	
Plucks				 		,
Sundry	pieces	s of po	rk	 		bs.
Total	weigh	t of po	rk	 1,865	lbs.	

MUTTON AND LAMB.

Whole of	carcas	ses		 	33
Plucks				 	4
Lungs				 	18
Livers				 	19
Hearts				 	19
Heads				 	60
Sundry	pieces	s of mu	itton	 	40 lbs.
Total	weig	ht of 1	nutton	 1,904 lb	S.

FRUIT, VEGETABLES, ETC.

162 bags of Potatoes.
4 barrels of Apples.
1,568 lbs. of Tomatoes.
1 bag of Chestnuts.
2 cases of Oranges.
2 crates of Gooseberries
40 sieves of Plums.
28 crates of Cherries.
91 Rabbits.
12 Chicken.
1,344 lbs. of Celery.
80 lbs. of Chestnuts.
40 lbs. of Pears.
Total weight ... 23,422 lbs.

FISH.

Haddock					12	boxes
Mackerel					89	,,
Herrings					14	,,
Whiting					4	,,
Kippers					42	,,
Whitebait		<i></i>			2	,,
Pollack					I	case
Codling					23	boxes
Smelts	•••				4	,,
Escallops					4	cases
Fillets	• • • •				2	boxes
	192	lbs. of	Brear		*	
	128	,, ,,	Monk			
	18	,, ,,	Hake			
	48	,, ,,	Lobs			17 4
Total v	veigh	t of Fis	h	15,2	86 1	bs.

DAIRIES, COWSHEDS, AND MILKSHOPS ORDER, 1885-1886.

There are 224 purveyors of milk, including 8 cowkeepers, registered in the Borough. The total also includes 17 purveyors of milk who reside outside the Borough. During the year 5 purveyors of milk and 1 cowkeeper have ceased to sell milk, and their names have been removed from the Register.

One cowkeeper has been registered in accordance with the above orders.

One application for registration has been received from a purveyor of milk residing outside of the Borough. The cleansing of dairies, cowsheds, and milkshops has been carried out in accordance with the Regulations, and various nuisances abated.

Particulars.	Town Proper.	Shirley, Freemantle, and Millbrook.	Portswood and Bitterne Park.	Outside the Borough.	Total.
Number of Cowkeepers on Register		5	3		8
Number of Purveyors of Milk on Register	108	53	38	17	216
Number of Purveyors of Milk registered during the year		3	2	I	6
Number of Cowkeepers registered during the year			I		1

COWKEEPERS IN THE COUNTY BOROUGH OF SOUTHAMPTON.

L. B	 Mill Farm, Oakley Road.
С. В	. Royal Mail, Millbrook.
W. P	Highcrown Street.
W. H	Manor Farm Road.
A. W. H	Cockroads Farm, Hill Lane.
H. C	. The Nest, Lordswood.
W. J	
	Park Street, Shirley.
A. N	 Portswood Road.

NUISANCES ABATED IN DAIRIES, COWSHEDS, AND MILKSHOPS.

Particulars.	Town Proper.	Shirley, Freemantle and Millbrook.	Portswood and Bitterne Park.	Total.
Milkshops cleansed and limewashed Dairies ,, ,, Cowsheds ,, ,, Drains repaired New pans fixed Water supply to waterclosets New sinks fixed Roots repaired Yard paving repaired Dairies re-constructed	180 40 3 1 1 9 4	72 38 20 2 4 1	56 18 16 2 	308 96 36 7 5 1 1 11 8
Totals	238	141	95	474

FOOD AND DRUGS ACT.

Four hundred and twenty-nine samples were taken by the Inspectors during the year and submitted to the Public Analyst.

One hundred and seventy-five were formally purchased in accordance with the Act and 254 were informal test samples, 31 of the latter being milk samples.

Eighteen, including 4 informal samples, were found to be adulterated.

Proceedings were taken in twelve cases, convictions being obtained in nine, three being dismissed on warranty.

	Arti	ICLE.			Number of Samples.	Genuine.	Adulterated
Milk				 	190	179	II
Cream				 	6	6	
Butter				 	84	81	3
Margarine				 	6	6	
Lard				 	41	41	
Cheese			•••	 •••	19	19	
Coffee				 	13	12	I
Pepper				 	27	27	
Mustard				 	6	6	
Flour				 	14	14	
Bread and				 	9	6	3
Self Raisin				 	3	3	
Arrowroot				 	I	I	
Baking Pov				 	5	5	
Egg Powde	er	•••		 	5	5	
	Tota	ls		 	429	411	18

The following Table shows the number of articles analysed which were found to be adulterated, and the result of proceedings taken:—

No. of sample	Date.	Article.	Adulteration.	Result of Proceedings.
87	Mch. 3	Milk	16.33% deficient in fat	Vendor cautioned.
102	,, 9	do.	6.66% deficient in fat & 0.94% of added water	Case dismissed on warran- tv
114	,, 11	Butter	100% margarine	Test sample; subsequent samples taken proved genuine
126	,, 30	Bread & Butter	100% Bread & Margarine	Fined £1 including costs
129	,, 31	do.	Ditto	Ditto
158	Apl. 14	do.	Ditto	Ditto
178	May 24	Milk	6.66% deficient in fat	Test sample.
229	J'ne 23	do.	6.66% deficient in fat	Vendor cautioned
240	,, 23	Coffee	57% chicory	Test sample
245	,, 29	Butter	100% margarine	Test sample, see sample No. 273
260	J'ly 13	Milk	6.33% deficient in fat	Case dismissed.
273	,, 13	Butter	100% margarine	Fined £3.
276	,, 20	Milk	18% deficient in fat	Fined £2
368	Oct. 16	do.	34% ,, ,,	Fined £20.
369	,, 16	do.	42.33%	Fined £20.
370	,, 18	do.	3.52% of added water	1
371	,, 18	do.	8.24% ,, ,,	Fined £2.
383	,, 26	do.	8% deficient in fat	Case dismissed on warran- tv

THE PUBLIC HEALTH (MILK AND CREAM) REGULATIONS, 1913.

The following are particulars of work carried out under the above Regulations during the year 1916:—

1. Milk; and Cream not sold as Preserved Cream.

	(a) Number of samples examined for the presence of a preservative.	(b) Number in which a preservative was reported to be present.
Milk	 190	Nil
Cream	 4	4

The nature of the preservative in each case in column (b) was Boric Acid. Two were test and two were formal samples, both of the latter being unlabelled. Warning letters with respect to the same were sent to the vendors.

- 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:—
 - (i) Correct Statements made (ii) Statements incorrect ... 2
 - (b) Determinations made of milk fat in cream sold as preserved cream:—
 - (i) Above 35 per cent. ... 2 (ii) Below 35 per cent. ... Nil
 - (c) Instances where (apart from analysis) the requirements as to the labelling or declaration of Preserved Cream in Article V. (1) and the proviso in Article V. (2) of the Regulations have not be observed. Nil.

- (d) Particulars of each case in which the Regulations have not been complied with, and action taken. Nil.
- Thickening Substances.—Any evidence of their additions to cream or preserved cream. Action taken where found.
 Nil.

Remarks.—The Boric Acid preservative did not exceed 6.5 per cent.

HOUSES LET IN LODGINGS.

There are 42 houses in the Borough Registered under the Bye-Laws relating to Houses Let in Lodgings.

Of this number three were placed upon the Register during the year, on application being made to the Local Authority, and one closed voluntarily.

the hundred and eighteen visits were made, and the houses generally were kept in conformity with the Bye-Laws.

COMMON LODGING HOUSES.

There are 14 common lodging houses in the Borough, with a registered accommodation for 511 persons.

Applications for the registration of all houses were made previous to the 31st December by the registered keepers in accordance with the provisions of the Southampton Corporation Act, 1910.

One thousand two hundred and forty-two visits were made during the year, and the premises generally were kept in a satisfactory condition.

HOUSING, TOWN PLANNING, &c., ACT., 1909.

During the year 624 houses were inspected under the provisions of the above Act.

The following is a list of Roads, Streets, etc., in which systematic inspection was continued, the number of houses inspected, and the number of notices served.

HOUSE-TO-HOUSE INSPECTION

Road or Street.				Number of	No. of Notices served.			
				Houses Inspected.	Sec. 15, H.T.P. Act.	Public Health Act		
Ade'aide Road (par Albert Road	t of)			20		2 67		
Alfred Place				92 23		10		
Beech Road				36		15		
Blackberry Terrace				21		II		
Fives Court				II	2	8		
George Street				23		16		
Kent Road				80		14		
Kingsley Road				82		55		
Marchwood Road				44		27		
Millbank Street				81		60		
Peel Street				29		7		
Testwood Road				60		38		
Violet Place				II				
				The state of the s				
Tot	al			613	2	330		

Representations were made in respect of 6 houses as being in a state so dangerous to health as to be unfit for human habitation, and closing orders were made in each instance. There were also three closing orders determined.

REPRESENTATIONS MADE WITH REGARD TO DWELLING HOUSES.

The following is a list of the houses, giving the situation, number of orders made, dates, etc.:—

Situation of House.	Date.		Nature of Order made.	Further Action	
	July Nov.	6 4 6 2	do. do. do. do. do. do. do. do.	Closing Order determined do.	

SUMMARY OF DEFECTS REMEDIED IN CONNECTION WITH INSPECTIONS MADE UNDER THE HOUSING

TOWN PLANNING, &c., ACT, 1909.

Drains reconstructed			6.
,, cleansed and repaired			31
,, retrapped			5
,, intercepted from sewer and ventilated			I
Inspection chambers provided to house drains			I
Water-closets reconstructed			7
New pans fixed in water-closets			16
Water laid on to water-closets			10
Ventilating shafts of house drains repaired		;	18
Bath, sink waste-pipes, stack-pipes, etc., dis	conne	ected	
from the drains			20
Sanitary sinks fixed			14
Dampness in dwelling-houses remedied			59
Houses cleansed and white-washed			91
Roofs of houses repaired			63
Flooring, walls, etc., of houses repaired			40
Window-sashes made to open			33
Lighting to rooms improved			5
Ground floor ventilation provided under rooms			19
Eaves, guttering, and stack-pipe repaired			34
Yards paved and drained			13
Yard paving repaired			59
Sanitary dustbins provided			16
Overcrowding in houses abated	•••		I

THE RAC FLOCK ACT, 1911.

Five samples of rag flock were taken and submitted to the Public Analyst, the result being as follows:—

No. of Sample.	Result of Analysis.					
I	Chlorine as	Chlorides,	2.75	parts pe	r 100,000	
2	,,	"	1.62	3	,,	
3	"	"	21.15		33	
4	"	,,	13.75		29	
5	,,	,,	7.5	,,	>>	

SHOPS ACT.

During the year 1,646 visits of inspection have been made under the Act and 9 letters of warning have been sent to shopkeepers for failing to post their Exemption Notices.

FACTORY AND WORKSHOPS ACT, 1901.

There are 808 Factories, Workshops and Workplaces, Bakehouses and Laundries on the Registers.

They give employment to 5,812 workers, 3,741 males, and 2,071 females, as compared with a total of 5,861 in 1915.

SUMMARY OF VISITS.

Factories					
Workplaces and V					
Bakehouses (inclu	iding Facto	ry B	akehous	ses)	548
Laundries (includi	ng Factory	Laur	ndries)		91
Visits re Sanitary	Matters				642
	Total				2,923

FACTORIES.

Trade.	No. on	Empl	loyees.	Total.	No. of
TRADE,	Register.			Total.	Visits.
Antiseptic Factories Bedding Factories	2 1 20 1 4 1 1 16 5 3 2 7 1 2 8 1 2 1 6 1 2 2 12 1 7 3 2 1 2 8 1 2 1 6 1 2 2 1 2 1 7 3 2 1 2 8 1 2 1 1 7 3 2 1 2 8 1 2 1 1 7 3 2 1 2 8 1 2 1 1 7 3 2 1 2 8 1	3 7 7 59 6 48 20 44 274 19 45 5 48 22 79 1 35 70 48 60 5 11 34 13 945 99 32 70 19 45	8 16 2 37 22 11 26 3 410 4 2	3 15 7 59 6 48 20 60 274 19 45 7 48 37 44 79 12 35 70 74 60 8 11 34 39 945 99 32 480 23 47	I I I I I I I
Totals	126	2173	567	2740	24

NUISANCES ABATED IN FACTORIES.

	d and repaired					I
	re-constructed					2
Extra Sanıtarı	y Conveniences	*				3
,,, ,,	,,	,, (ser	parate	for se	xes)	2
Water-closets	lighted and ve	ntilated				2
,,	cleansed and l		ed .			3
,,	defective roof	repaired				I

WORKSHOPS.

Trade.	No. on	Emp	loyees.	Total.	No. of
TRADE.	Register.	Male. Female		Total.	Visits.
Billiard Table Maker	. 1	3		3	
Blacksmiths and Coachbuilders .	. 41	137		137	70
	. I	I	3	4	
	. I	8		8	2
De les Direction	. 39	83		83	59
Datale Maleone	. I	2		2	2
Daugh and Daglest Maleans	3	7		7	7
Puilding Trades	. 36	156		156	43
Cabinet Makers and Upholsterers .	. 25	94	7	IOI	45
Carpet Planners and Upholstery					
Needleworkers	. 4	5 8	20	25	7
	. 4		4	12	10
	. 1	2		2	2
	. 17	41	6.0	41	31
D 1 Cl	96		648	648	221
Electricians and Engineers	. 2	17	5	5 17	2
Footbar Ducasans and Francisco	. 2	3	4	7	3 6
Hoorth Stone Cutton	. I	I		í	I
Iron and Steel Merchant	. I	9		9	2
	. 8	14	18	32	317
	. I	I		I	I
36. 1.11	. I	I		I	2
	I	3		3	I
O Politica	. 3	22	4	26	130
Desferment	. I	5		5 12	2 2
Photographers	. 12	3 20	32	52	24
Diana Danairara	. 3	9		9	5
Disture Framers and Cildons	. 4	17		17	7
Restaurant Kitchens	. 37	69	60	129	195
	. I	3	7	10	5
	. II	29		29	16
	. I	18		18	2
Stonomosons	. I	I	I	2	5
T-:10-0	5	17	222	17	
Tielrot Weiters and Enguerrans	94	151	223	374 12	311
Tin Dloto Woultons	. 11	37		37	16
Tunnly and Dag Maleson	. 2	4		4	2
Umbrella Makers	. I	2	2	4	2
	. 5	II		II	6
	. 12	33		33	20
Whalasala Daalsana and Daalana	. 2	12		12	2
Wine and Door D stilens	4	26	23	49	6 8
Vacht and Root Buildone	. 5	31		31	
racht and boat builders	4	32		32	4
		1			
Totals	. 523	1174	1070	2244	1618
	1		1		

NUISANCES ABATED IN WORKSHOPS.

Insanitary drain abolished	 I
Drains cleared and repaired	 I
Sanitary conveniences provided (separate for sexes)	 I
Water-closets re-constructed	 I
" impervious floors laid	 I
" lighted and ventilated	 3
cleansed and lime washed	 2
" town and flush since fixed	 3
Game works at a managed	I
", floors, roofs, etc., repaired	
Workrooms ventilated	 I
" roofs repaired	 3
,, damp walls remedied	 I
" cleansed and lime-washed	 27
Yard paving relaid or repaired	 4
Dirty yards cleansed	 3
Eaves, guttering, and stack-pipes repaired	 2
Refuse vaults constructed or repaired	 2
Nuisance caused by keeping fowls abated	 I
Accumulation of refuse, etc., removed	 I
Treatment of foruse, coor, removed in	
Total	 50
10000	39

REPORTS RECEIVED FROM H.M. FACTORY INSPECTOR.

Nine reports were received from H.M. Factory Inspector during the year, viz:—

Nature of Report.	No. sent in.	Action Taken.
New Workrooms or Change of Address	Nil	
Workshops Notified (already on L.A. Register or re-notified after Notice from Local Auth- ority)	Nil	
Sanitary Defects	9	Defects remedied.
Total	9	

NOTIFICATIONS SENT TO H.M. FACTORY INSPECTOR.

Ten notifications have been sent to H.M. Factory Inspector during the year respecting new workshops, change of address, or infringements of the Factory and Workshops Act.

HOME WORK.

During February 51 lists were sent in containing names and addresss of 128 outworkers, and during August 50 lists containing names and addresses of 128 outworkers.

They are situated as follows:-

					February.	August.
Town District				 	82	84
Northam and Chape	1			 	5	4
Bevois Town, Ports	wood a	and St.	Denys	 	22	20
Freemantle and Shir	rley			 	15	16
Outside District				 	. 4	4
	Tot	als		 	128	128

Of the 128 names received in August, 41 occupy premises registered as workshops employing labour, and of the remainder residing in the Borough 64 carry on tailoring work, 5 bootmaking, and 14 upholstery, needlework, underwear, etc.

The names and addresses of the outworkers living outside the Borough have, in accordance with Section 107 of the Factory and Workshops Act, been forwarded to the Authorities of the District in which they reside.

One hundred and eighty-two visits of inspection have been made during the year to outworkers' premises, resulting in the detection and abatement of 14 nuisances, as follows:—

Workrooms lime-washed	 	 	 6
Roofs repaired	 	 	 2
Damp walls remedied	 	 	 I

Water-closet cisterns repaired	 	 I
", impervious floors laid	 	 I
Eaves guttering repaired	 	 I
Yard paving repaired	 	 I
Ground floor ventilation provided	 	 I
		14

BAKEHOUSES.

There are 124 Bakehouses on the Register, 19 being factories (i.e., using mechanical power) and 105 workshops. Eighty-seven of these were in use at the end of the year, and 37 unoccupied.

They give employment to 324 men and 10 females.

Five hundred and forty-eight visits of inspection have been made during the year and 20 nuisances abated.

All occupied Bakehouses were re-lime-washed during the months of April and October, in accordance with the Regulations, and at one premises the ovens have been demolished.

TABLE C.—Bakeh	ous	es.
----------------	-----	-----

	No. on Register.	No. in Use.	Empl	oyees.	Total.	No. of Visits
	ave Biotoxi	030.	Male.	Female.	2000	Violes
Factories	 19	19	113	10	123	61
Workshops	 105	68	211		211	487
Totals .	 124	87	324	10	334	548

NUISANCES ABATED IN BAKEHOUSES.

Sanitary conveniences prov	vided	(separ	ate for	sexes)	 I
Water-closets repaired					 I
Roofs repaired					 4
Eaves guttering repaired					 2
Floors relaid or repaired					 I

Yards paved or repaired		
Extra ventilation provided	/	I
New sill and weatherboard fixed		
New sinks and waste-pipes fixed		I
Bakehouses cleansed and lime-washed after not	tice	2
		I
Manure vault repaired		1
Accumulation of refuse removed		I
		20

LAUNDRIES.

There are 35 Laundries on the Register, one lapsed during the year and 2 others have been added.

Eleven of these use mechanical power and 24 manual.

They employ 76 male and 424 female workers.

Ninety-one visits of inspection have been made during the year and 5 nuisances abated, as follows:—

NUISANCES ABATED.

Workrooms lime-washed 5

TABLE D.—Laundries.

				No. on Register.	Emp	loyees.	Total.	No. of Visits.
				are groves.	Male.	Female.	2004.	
Factories				 11	55	291	346	2
Workshops				 24	15	133	148	89
	Totals	s		 35	70	424	494	91

In addition to the foregoing, 642 visits have been made during the year, comprising re-visits to Factories, Workshops, Bakehouses, and Laundries, serving notices, investigating complaints of nuisances, overcrowding, and various other matters.

CASES OF INFECTIOUS DISEASE OCCURRING ON WORKSHOP PREMISES.

Date	e.	Disease.	Address.	Trade.	Action taken.
Feb.	2	Measles	New Road	Tailoring	Patient isolated at home and premises, bedding, &c., disinfected after recovery
Feb.	3	do.	Bridge Road	Tailoring	Patient isolated at home and premises, bedding, &c., disinfected after recovery
Feb.	12	do.	Milton Road	Tailoring	Patient isolated at home and premises, bedding, &c., disinfected after recovery
April	26	Diphtheria	Above Bar	Blouse & Under- wear	Patient removed to Isolation Hospital and premises, bed- ding, &c., disinfected
May	3	Measles	New Road	Tailoring	Patient isolated at home and premises, bedding, &c., dis-infected after recovery
July	28	Scarlet Fever	Chantry Road	Boot Re- pairing	Patient isolated at home and premises, bedding, &c., disinfected after recovery
Sept.	15	Diphtheria	Millbrook Road	Baker	Patient removed to Isolation Hospital and premises, bed- ding, &c., disinfected
Dec.	23	do.	Pound Tree Road	Watch- maker	Patient removed to Isolation Hospital and premises, bed- ding, &c., disinfected

CASES OF INFECTIOUS DISEASE OCCURRING IN HOMES OF EMPLOYEES OF FACTORIES AND WORKSHOPS.

Three cases of Scarlet Fever, four cases of Diphtheria, and three cases of Measles occurred in the homes of employees of Factories and Workshops during the year.

Seven of these cases were removed to the Isolation Hospital, and three were isolated at home.

All premises in which cases occurred were disinfected, and bedding, etc., removed for disinfection after removal of patients to Hospital, or on recovery when isolated at home.

The workers living in the houses in which Scarlet Fever occurred received a disinfecting bath and had their clothes disinfected before resuming duties.

The five following tables are inserted by request of the Secretary of State.

FACTORIES, WORKSHOPS, WORKPLACES AND HOMEWORK.

1.—INSPECTION OF FACTORIES, WORKSHOPS AND WORKPLACES.

Including Inspections made by Sanitary Inspectors or Inspectors of Nuisances.

Premises.		Number of	
Premises.	Inspections.	Written Notices.	Prosecutions
Factories (including Factory Laundries)	26	2	
Workshops	1512	9	
Workplaces (Other than Outworkers' premises included in Part 3 of this Report)		7	
Total	1733	18	

2.—DEFECTS FOUND IN FACTORIES, WORKSHOPS AND WORKPLACES.

	Nur	mber of Defe	ects.	Number of
Particulars.	Found.	Remedied.	Referred to H.M. Inspector.	Prosecu- tions.
Nuisances under the Public Health Acts:—				
Want of Cleanliness	34	34		
Want of Ventilation	2	2		
Overcrowding				
Want of drainage of floors				
Other nuisances	51	51		
Sanitary (insufficient unsuitable or	3	3		
accommodation defective	4	4		
sexes	4	4		
OFFENCES UNDER THE FACTORY AND WORKSHOP ACT:				
Illegal occupation of underground bakehouses (s. 101)				
Breach of special sanitary requirements for bakehouses (ss. 97 to 100)				
Other Offences				
(Excluding offences relating to outwork which are included				
in Part 3 of this Report)				
Total	98	98		

INFECTED PREMISES, SECTIONS 109, 110.		snoit	Prosecu Sections 10	(91)	::	:		Number. (2).	9		6:	01	9
INFECTED PREMISES, CTIONS 109,		ade).	Orders m	(15)	4	:		Ž					
SECTI		's	Instance	(14)	==::	:	1		: rkshop	but roor):	ector	: :	
SOME SS, 108.		'SU	Prosecutio	(13)	::	:	MATTERS.		and Wo	d. Inspe h Acts, ct (s. 5,	M. Insp		
UNWHOLESOME PREMISES, SECTION 108.		es d.	oitoM evree	(12)	::	:			or of Fa	by H.N Healt	to H.	: -: :	
CN UN SE		*səəə	Instan	(11)	::	:	OTHER	Class.	Inspect	referred Public	ector .	(s. roi	year .
	Prosecutions.		Failing to send Lists.	(01)	::	;	5.—01	CC	Matters notified to H.M. Inspector of Factories:— Failure to affix Abstract of the Factory and Workshop Act (s. 133, 1901)	Action taken in matters referred by H.M. Inspector as remediable under the Public Health Acts, but not under the Factory and Workshop Act (s. 5, 1991)	Notified by H.M. Inspector	Underground Bakehouses (s. 101):— Certificates granted during the year	In use at the end of the year
N 107.	Prosect	Failing	to keep or permit inspec- tion of Lists.	(6)	::	:			atters notified to ailure to affix Ab Act (s. 133, 1901)	on taken in mediable inder the	ports (of	ground B	se at the e
s, SECTION		Notices Served on	Occupiers as to keeping or sending Lists.	(8)	10:	5			Matte Failu Act	Actic as re not u	, R. K.	Underg	In us
LISTS,	oyers.	e	Outworkers (Workmen)	(2)	e :	3		Number.	523	105	24		652
ERS.	mploy	Sending once in the year.	Outworkers (Contractors)	(9)	::	:	S.						
OUTWORKERS	Lists received from Empl	Sconc	Lists.	(5)	e :	3	WORKSHOPS.	ie year			:		ter
WIUC	ved fr	ne	Outworkers (Workmen)	(4)	245	253	RKS	d of th	:	:			Regist
	s recei	Sending twice in the year.	Outworkers (Contractors)	(3)	::	:		the en	•	:	:		no sdo
	List	twi	Lists.	(2)	96	98	RED	(31) at		:	:	1	orksho
		¥			::		REGISTERED	er (s. 1	:	:	:		r of W
		WORK.			stery	:	REG	Regist	:	:	:		number
		OF		(H)	rel— ig, &c. uphok	tal	4.	on the	:	:	:		Total number of Workshops on Register
		NATURE			Wearing Apparel— (1) making, &c Furniture and upholstery	Total		Workshops on the Register (s. 131) at the end of the year.	Workshops	Bakehouses	Laundries		T

SYNOPSIS OF TABLES

- TABLE 1 —Showing births and birth-rates for the whole Borough and various Districts for eleven years, 1906-1916.
 - , z.—Showing deaths and death-rates for the whole Borough and various Districts for eleven years, 1906-1916.
 - Deaths from all causes at subjoined ages in the Borough of Southampton, from 1907-1916.
 - 4.—Causes of death in Southampton for ten years, 1907-1916.
 - 5.—Showing population, birth-rates, death-rates, zymotic death-rates, infantile mortality, and marriage rates in Southampton and England and Wales for twenty years, 1897-1916.
 - ,, 6.—Table prepared in accordance with Local Government Board's instructions. Showing population, births, and deaths for ten years.
 - 7.—Ditto. Showing cases of infectious diseases notified during 1915, classified according to ages and localities, and the number removed to Hospital.
 - ,, 8.—Ditto. Showing deaths occurring in 1916. Classified according to diseases and ages.
 - .. 9.—Causes of deaths in Municipal Wards during the year 1916.
 - 10.—Showing in detail causes of, and ages of all deaths of persons belonging to the Borough of Southampton during the year 1916.
 - ... II.-Vaccination returns for the Borough.
 - Office, Southampton, during the year 1916, together with averages for ten years.

TABLE 1.

SHOWING BIRTHS AND BIRTH RATES FOR WHOLE BOROUGH, AND THE OLD CIVIL PARISHES OF THE BOROUGH, FOR 10 YEARS—1906-1915, COMPARED WITH THE YEAR 1916.

		Whole Bo	orough.		Town I	Proper.	Ports	wood.	Shirley, Freemantle and Millbrook		
Year.	Males.	Females	Total Births.	Birth Rate.	Total Births.		Total Births.	Birth Rate.	Total Births.	Birth Rate	
1906	1495	1418	2913	26.03	1589	25.6	550	27.I	774	26.	
1907	1438	1319	2757	24.33	1506	24.I	480	23.2	771	25.	
*1908	1537	1434	2971	25.41	1646	25.8	553	26.I	772	24.	
1909	1511	1427	2938	25.30	1584	25.2	524	24.2	830	26.	
1910	1546	1380	2926	24.89	1581	25.I	561	25.4	784	24.	
1911	1430	1419	2849	23.94	1536	24.3	545	24.2	768	23.	
1912	1443	1363	2806	23.29	1493	23.5	511	22.I	803	23.	
*1913	1495	1462	2957	25.78	1543	23.7	579	24.I	835	23.	
1914	1499	1450	2949	23.87	1541	24.0	564	23.6	844	23.	
1915	1368	1339	2707	21.91	1444	22.5	466	19.5	797	22	
Average 10 years.	1476	1401	2877	24.48	1546	24.4	533	23.9	798	24.	
1916	1430	1340	2770	21.95	1431	22.2	526	21.3	813	22.	

^{*53} weeks.

TABLE 2.

SHOWING DEATHS AND DEATH RATES FOR THE WHOLE BOROUGH, AND THE OLD CIVIL PARISHES OF THE BOROUGH, FOR 10 YEARS—1906-1915, COMPARED WITH THE YEAR 1916.

Year.		Whole B	orough.		Town I	Proper.	Portsv	vood.	Shirley. Freemantle and Millbrook		
	Males.	Females	Total Deaths	Death Rate.	Deaths	Death Rate.		Death Rate.		Death Rate.	
1906 1907 *1908 1909 1910 1911 1912 *1913 1914 1915	796 793 819 848 764 986 842 845 944 919	748 752 771 764 693 837 745 759 772 809	1544 1545 1590 1612 1457 1823 1587 1604 1716 1728	13.80 13.63 13.60 13.88 12.39 15.23 13.17 12.90 13.89 14.78	926 961 991 988 875 1046 937 928 1014 991	14.9 15.4 15.5 15.7 13.9 16.6 14.7 14.2 15.8 16.5	242 208 237 229 215 276 269 274 275 284	11.9 10.0 11.2 10.6 9.7 12.2 11.6 11.4 11.5	376 376 362 395 367 491 381 402 427 453	12.8 12.4 11.5 12.4 11.3 14.8 11.3 11.4 12.0	
Average 10 years	856	765	1621	13.73	968	15.3	251	11.3	403	12.3	
1916	822	855	1677	14.46	960	16.2	308	13.6	409	12.0	

^{*53} weeks.

TABLE 3.

Table Showing Deaths of Persons belonging to Southampton, classified according to ages for 10 years.

Year.	At all Ages.	Under 1 Year.	I and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and upwards
1907	1545	298	98	59	41	556	493
1908	1590	336	112	40	59	557	493 486
1009	1612	312	113	51	59	564	513
1910	1457	231	100	61	48	535	482
1911	1823	384	124	62	46	643	564
1912	1587	237	120	58	66	607	499
1913	1604	241	IOI	71	52	609	530
1914	1716	264	96	91 86	46	657	562
1915	1728	237	147	86	52	628	578
1916	1677	236	100	47	55	620	619

TABLE 4.

Causes of Deaths in Southampton for 10 years, 1907 to 1916.

	_									
Cause of Death.	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916
Enteric Fever	4	4	10	10	3	8	6	6	8	5
Small Pox	2									
Measles	5	22		17	13	18	30	IO	30	9
Scarlet Fever		4	5	2	5	2	2	IO	2	5
Whooping Cough	18	35	42	II	18	35	IO	IO	37	27
Diphtheria and Croup	22	16	19	16	23	19	30	39	39	16
Influenza	26	II	19	19	17	17	20	16	29	36
Erysipelas	6	I	2	4	3	3		2	3	I
Phthisis (Pulmonary Tuberculosis)	126	135	158	145	188	160	150	172	170	161
Tuberculous Meningitis		IO	23	23	24	18	19	16	14	6
Other Tuberculous Disease	37	29	20	30	27	24	17	23	22	23
Cancer, malignant disease		108	105	135	125	109	139	125	150	143
Rheumatic Fever	5	3	7	4	3	6	2	4	6	7
Meningitis	18	14	21	IO	14	14	14	15	24	17
Organic Heart Disease	151	153	129	120	158	137	158	176	156	178
Bronchitis	141	143	135	108	126	144	137	133	163	182
Pneumonia (all forms)	96	85	II2	83	129	103	88	121	118	98
Other Diseases of Respiratory								1		
Organs	23	22	17	14	23	27	27	19	33	15
Diarrhœa and Enteritis	59	75	63	38	178	39	55	61	47	52
Appendicitis and Typhlitis	6	5	8	6	9	13	12	12	12	IO
Cirrhosis of Liver	IO	II	14	7	17	15	16	14	14	18
Alcoholism	9	6	4	4	8	2	I	7	2	I
Nephritis and Bright's Disease	37	35	50	43	50	56	52	52	44	66
Puerperal Fever	2	4	2	2	2	2	2	2	2	2
Other accidents and Diseases of										
Pregnancy and Parturition		7	5	5	4	IO	8	4	9	4
Congenital Debility and Malforma						235		100		1
tion, including Premature Birth				IIO	127	88	113	137	88	102
Violent Deaths, excluding Suicide	35	38	44	42	49	34	49	41	53	32
Suicide				0.770	1	-0	7		5	7
Other Diseases	417	467	462	437	469	471	440	477	448	454
Totals	1545	1590	1612	1457	1823	1587	1604	1716	1728	1677

TABLE 5.

SHOWING POPULATION, BIRTH RATES, DEATH RATES, ZYMOTIC DEATH RATES, INFANTILE MORTALITY, AND MARRIAGE RATES IN SOUTHAMPTON AND ENGLAND AND WALES FOR TWENTY YEARS, 1897-1916.

	Marriage Rate	0.91	16.2	16.4	15.9	15.9	15.8	15.6	14.6	5	15.6		14.9		14.8	15.2	15.5	10	15.9	19.3	10		
Marriages.	Marri-	17.6	0.91	17.7	16.3	17.5	18.1	16.3	15.7	14.9	14.3	14.5	15.1	6.51	13.1	15.4	16.4	6.91	17.4	19.4	9.91		
	Total	848	164	896	846	816	996	883	859	827	805	827	867	928	773	914	066	1032	1080	6611	1052		
ntile	under 1 er 1000 egistered England & Wales.		156	191	163	154	151	133	132	146	128	133	811	121	601	901	130	95	109	105	OII	16	
Infantile	Deaths under I year per 1000 Births Registered	South- ampton.	156	153	178	152	154	124	114	114	133	113	108	113	901	79	135	84	82	06	88	85	
ths.	Zymotic Death Rate	2.15	2.21	2.19	1.99	2.05	1.64	I.46	1.94	I.52	I.73	I.28	I.34	I.13	0.99	2.49	:		::		:		
Zymotic Deaths.	Zymotic	2.24	2.63	2.88	1.51	1.64	1.64	I.50	I.13	2.49	1.51	0.99	I.33	I.20	08.0	I.85	0.94	86.0	I.00	I.33	0.84		
Zyn	Total	217	267	297	163	173	174	165	123	275	169	112	156	139	94	220	II3	122	123	156	86		
	Death Rate	17.4	17.6	18.3	18.3	6.91	16.3	15.4	16.2	15.2	15.4	15.0	14.7	14.5	13.4	14.6	13.3	13.7	14.0	15.1	14.0		
Deaths.	3	Rate.			0					14.2												14.5	
	Total	11,711	1,756	I,992	1,881	1,789	1,726	1,557	1,590	1,735	1,611	1,572	1,642	1,694	1,554	1,847	1,587	1,604	1,716	1,728	1,677		
	Birth Rate England and Wales.		29.7	0	29.3	00	00	00	00	N	1	1	0	9	in	10	1	00	00	00	1	H	
Births.		кате.	30.4	20.8	29.6	28.3	30.0	29.I	29.4	27.5	26.0	26.0	24.3	25.4	25.3	24.9	23.9	23.3	23.8	23.0	21.0	22.0	
	Total	Births.	2,937	2,045	2,005	2,020																	
	Popu- lation.			08.050	101,350	103,500	105,179	109,901	108,022	109,444	110,865	112,287	113,708	115,130	116,551	117,973	119,394	120,891	122,412	CA	17	116,391	
Year.				*1808				1902				1906									1015	11916	

*53 Weeks. † Estimated Civil Population.

Note.—The Zymotic Deaths and Death Rates include the seven principal Zymotic Diseases, viz.—Whooping Cough. Measles, Diarrhœa, Diphtheria, Scarlet Fever, Typhoid Fever and Small Pox.

TABLE 6.

VITAL STATISTICS OF WHOLE DISTRICT DURING 1916 AND PREVIOUS YEARS.

to	ages.	Rate.	13	15.23	13.17	12.90	13.89	14.78	14.46
belonging strict.	At all	Number.	12	1,823	1,587	I 604	1,716	1,728	1,677
Nett Deaths belonging to the District.	ar of age.	Rate per 1000 Nett	Births.	135	84	82	90	88	85
Net	Under I year of age.	Number.	IO	384	237	241	263	237	236
Transferable Deaths.	of Resi-	registered in the District.	6	46	54	45	63	. 52	62
Transl	of Non-	registered in the District.	8	70	96	16	*139	†154	‡203
Deaths d in the		Rate.	7	15.52	13.52	13.27	14.51	15.56	15.53
Total Deaths registered in the	No.	Number.	9	1,847	1,629	1,650	1,792	1,830	1,801
	tt.	Rate.	5	23.94	23.29	23.78	23.87	21.91	21.95
Births.	Nett.	Number.	4	2,849	2,806	2,957	2,949	2,707	2,770
		Un- corrected Number.	3	2,849	2,801	2,951	2,942	2,693	2,764
Population	estimated to middle	of each Year.	2	119,394	120,891	122,412	123,948	117,349	116,391
Accessor in	Year.		I	1161	1912	1913	1914	1915	9161

* Including 25 deaths of Soldiers.

TABLE 7.

CASES OF INFECTIOUS DISEASE NOTIFIED DURING THE YEAR 1916.

						10	3													1	1
.e- ital.	I	:	:	124	:	130	:	20	:	:	:	4	:	:	8118	:	33	:	400		
		St. Deny's.	:	:	:	IO	61	20	:	I	:	:	:	:	:	20	28	7	9	31	110
		Portswood.	:	:	:	15	3	12	:	C\$:	:	:	61	:	n	21	I	21	IO	96
Vard.		Shirley.	:	:	:	10	2	25	:	Н	:	:	4	н	:	17	12	2	94	22	961
pal V		Millbrook.	I	:	:	13	4	13	:	:	:	:	:	:	:	9	18	63	00	19	175
Total Cases Notified in each Municipal Ward		Freemantle.	:	:	:	42	3	9	:	I	:	:	ı	:	:	9	91	н	62	12	150
ich M		Banister.	:	:	:	II	н	9	:	H	:	:	:	:	H	3	12	63	86	22	145
in ea		Bevois.	:	:	:	15	61	II	:	63	:	:	I	:	:	25	23	4	47	II	121
tified		All Saints.	:	:	:	15	3	17	:	3	:	:	:	:	I	00	20	Ç	44	7	120
s No		Newtown.	:	:	:	9	3	14	:	I	:	:	:	:	:	H	22	61	52	II	112
Case		Trinity.	:	:	:	15	61	12	:	Н	:	:	:	:	:	6	21	9	90	5	167
Total		Northam.	:	:	:	4	4	12	:	61	:	:	н	:	н	5	24	7	19	12	133
		St. Mary's.	:	:	:	12	6	24	:	4	:	:	н	Н	н	00	26		47	9	142
		.nwoT	:	:	:	4	00	15	:	4	:	:	:	н	:	4	30	1	87	9	991
		65 and upwards.	:	:	:	:	9	:	:	:	:	:	:	:	:	:	∞			: :	14
d.		45 & under 65 years.	:	:	:	:	61	н	:	3	:	:	:	:	:	:	39		: :	: :	62
Number of Cases notified.	rs.	25 & under 45 years.	н	:	:	00	12	17	:	9	:	:	7	:	:	:	126	-	191	22 2	219
ses n	-Years.	15 & under 25 years.	:	:	:	22	10	32	:	4	:	:	н	H	:	:	58	10	22	37	
of Ca	Ages-	5 & under	:	:	:	105	4	OII	:	IO	:	:	:	61	C1	:	41	00	270	70	736
per	At A	1 & under 5 years.	:	:	:	36	, (1)	26	:	:	:	:	:	65	63	:	н	-		39	477
Nun		Under 1.	:	:	:	Н	:	н	:	:	:	:	:	:	:	80	:) -		9	122 477 736 197
		At all Ages.	н	:	:	172	40	187	:	23	:	:	00	10	4	80	273	9	803	174	1827
Notifiable Disease.			xoc			Diphtheria (including Membranous Croup)	elas	Fever	Tyhpus Fever	Enteric Fever	Relapsing Fever	ned Fever	Puerperal Fever	Serebro-spinal Meningitis	yelitis	Ophthalmia Neon- atorum	ber-	Other Forms of	ereom	Measles	Totals
			Small-pox	Cholera	Plague	Diphth	Ervsipelas	Scarlet Fever	Tyhpus	Enteric	Relaps	Continued	Puerpe	Cerebro-spin Meningitis	Poliomyelitis	Ophthaln atorum	Pulmon	Other	Moselee	Germai	

TABLE 8.

Causes of, and Ages at Death during the year 1916.

	Net " Re	of or	in Institu- District.								
Cause of Death.	All Ages.	Under I year.	r and under z years.	2 and under 5 years.	5 and under 15 years.	15 and under 25 years.	25 and under 45 years.	45 and under 65 years.	65 and upwards.	Total Deaths in the I	
All Causes—Certified —Uncertified	1676	236	43	57	47	55	212	408	618	638	
Enteric Fever Small Pox Measles Scarlet Fever Whooping Cough Diphtheria and Croup Influenza Erysipelas	5 9 5 27 16 36	 13 2	 5 4 I	2 1 10 5 1	 2 2 IO	 	3 I 2	 9	21	7 2 4 20 I	
Phthisis (Pulmonary Tuber- culosis)	161 6 23 143 7 17 178 182 98	I 4 3 20 I7	 I 5 I 7 II	1 2 4 ··· 3 1 5 6	3 1 2 4 	25 3 I I	74 4 18 2 1 18 7 12	48 2 3 66 3 2 59 24 23	10 1 59 1 94 119 20	58 3 4 54 54 2 8 35 39 26	
Other diseases of Respiratory Organs Diarrhœa and Enteritis Appendicitis and Typhlitis Cirrhosis of Liver Alcoholism Nephritis and Bright's Disease Puerperal Fever Other accidents and diseases of	52 10 18 1 66 2	30	6		3 2 1 	 3 	3 2 1 1 5 2	7 6 4 12 .: 35	3 4 5 25	3 21 12 4 13 4	
Pregnancy and Parturition. Congenital Debility and Malformation, including Premature Birth		102					4			10	-
Violent Deaths, excluding Suicide Suicide Other Defined Diseases Diseases ill-defined or unknown	32 7 445 9	 42 I	2	7 7	4 5 	2 I 9 I	3 4 43 2	8 2 90 3	8 247 2	103 3 196 3	
	1677	236	43	57	47	55	212	408	619	638	
Sub-Entries— Cerebro-spinal Meningitis Poliomyelitis Pneumonia (other than	3 1	::		::	I		.:		::	3 1	
Broncho-pneumonia)	64	6	4	4	2	5	8	20	15	16	

TABLE 9.

AUSES OF DEATH IN THE MUNICIPAL WARDS DURING

CAUSES OF DEATH IN THE MUNICIPAL WARDS DURING
THE YEAR 1916.

Municipal Ward.

			MUNICIPAL WARD.													
The second named in column 2 is not a local division in column 2 i	Causes of Death.	Town.	St. Marys.	Northam.	Trinity.	Newtown.	All Saints.	Bevois.	Banister.	Freemantle.	Millbrook.	Shirley.	Portswood.	St. Denys.	*No settled residence in Boro'.	Total Deaths.
THE PERSON	Enteric Fever Small Pox Measles Scarlet Fever Whooping Cough Diphtheria & Croup Influenza Erysipelas	 4 6 I	 1 4 6 3	 I I 2	3 2 1	 I 4	I I I		··· ·· · · · · · · · · · · · · · · · ·	 1 2 2	2	 I 3 I 5	1 3 1 2	3 2 2	 	5 9 5 27 16 36 1
A 60 Km	Phthisis Cuberculous Meningitis Other Tuberculous	30 I	20 I	22 I	8	8	8	II I	9	9	16	5	7	7	· · · · · · · · · · · · · · · · · · ·	161
THE REAL	Diseases Cancer Rheumatic Fever Meningitis	4 19 2 4	2 13 4	7 2	1 12 	2 10 	1 15 	I IO I	2 5 1 1	4 7 2	9 1	18 1	 7 1	 11	 	23 143 7 17
1	Organic Heart Disease Bronchitis Pneumonia (all forms) Other diseases of	22 29 14	24 23 11	11 28 10	14 24 8	6 16 6	15 9 7	17 6 8	6 6 4	8 9 3	17 7 7	11 7 9	17 7 3	9 9 6	I 2 2	178 182 98
100 100 100	Respiratory Organs Diarrhœa & Enteritis Appendicitis and	9	4	5	3	2 2	2 2	5	2	3	6	I	5	4	 I	15 52
115	Typhlitis	3 I I	I 	4	2	::	···	3			::	2	2	 I	ĭ	18
Sec. of	Disease	5	3		6	7	5	2	2	2 I	2	3	18	7	::	66
3 8	Diseases of Preg- nancy & Parturition Congenital Debility & Malformation (in-	1		I							I	I				4
2 7 10	Birth) Violent Death (ex-	15	7	12	3	8	7	13	2	8	5	11	6	5		102
	cluding Suicide) Suicide Other Diseases	6 1 56	4 4I	1 2 29	35	37	39	33	26	1 2 30	2 1 32	30	34	5 21	2 11	32 7 454
-	Totals	236	175	147	130	110	121	120	74	97	119	114	117	94	23	1677

^{*} In calculating death rates, the deaths in this column are allocated over the various Wards.

TABLE 10.

Table showing Deaths from All Causes belonging to the County Borough of Southampton during the Year 1916 (52 weeks ended 30th December, 1916) classified according to Diseases and Ages. (This Table includes deaths of "Residents" occurring in other Districts, and excludes deaths of "Non-Residents," in accordance with the Rules of the Registrar-General).

	Totals.		5	6 5	27	91	30	4 6	1 4	0 +	1 7	101		12	4 -	4 +	1 .	1	77 +	1	2	14	30	24	29	20	26	
SEX.	Females.		04 :	20 00	6	6	22	4 +	1 (77 >	101	100	10	0 +	4 ,	,	: '	,	:	: '	63	I	12	13	29	20	10	
SE	Males.		67	0 66	18	7	14	::	:	4		63	4	4,	4 (n +	1	: '	m +	1	3	13	18	II	::		21	
	95 and up- w'ds		:	: :	:	:	:	:	:	:	::	:	:	:	:	:	:	:	:	:	:	:	:	:	::-	:	:	
	85 to 95		:	: :	:	:	63	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	H	:	
	75 to 85		:	: :	:	:	6	:	:	:	:	н	:	:	:	:	:	:	:	:	:	3	3	10	(1	I	(1)	
	65 to 75		:	:		:	OI	:	:	:	:	6	:	:	:	н	:	:	:	:	:	2	12	9	9	v	000	
	55 to 65		н	:		:	3	H	:	64	н	61	H	:	:	н	н	:	:	:	:	3	OI	9	9		+ 0	
AGES.	45 to 55		:	:		:	9	::	:	3	:	29	I	:		:	:	:	н	:	:	I	4	4	-00	v	20	
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	25 to 35		3	:	: :	:	н	:	:	:	:	31	:	:	:	н	:	H	I	:	::	I	:			-	•	
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	DISEASES CLASSIFIED.	GENERAL DISEASES.	Enteric Fever	:	: : :	Diphtheria	:	Erysipelas	German Measles	Septicæmia	Tetanus	Pulmonary Tuberculosis	Tuberculous Meningitis	Tuberculosis of Peritoneum & Intestines	Tuberculosis of Spinal Column	Tuberculosis of Joints	Tuberculosis of Skin	Tuberculous Pyosalpinx	Disseminated Tuberculosis	Rickets	tal Svohilis	d Cavity	r &c		the Female Conital Organs		Cancer of the Breast	Cancer of other Organs

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	DISEASES CLASSIFIED.	Fever d Arthritis Gout
	DISEA	Rheumatic Fever Rheumatism Rheumatism Rheumatic Gout Diabetes Diabetes

TABLE 10.—Continued.

	Totals.	1 2 8 8 1 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1	1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	, H 70 4	181 281
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	95 and up- w'ds			::::	::::H
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	75 to 85	11111111	: H Q : 4 H H Y	\	22:::::
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	SSIFIE	11111111	eart Heart of Her	bosis	11111
	DISEASES CLASSIFIED.	Confusional Insanity Dementia Melancholia Acute Mania Epilepsy Convulsions Sclerosis of Brain Otitis Media	Pericarditis Myocarditis Valvular Disease of Heart Fatty Degeneration of Heart Other Organic Disease of Heart Angina Pectoris Aneurysm	1 Throm haticus	System. Laryngitis Laryngeal obstruction Papilloma of Larynx Bronchocele Bronchitis

		Totals.	440 H 8 2 H	1188 1188 1188 1188 1188
	x.	Females.	20 29 1 : 1 :	£40004 HHHHH HHH
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		10 to	V4:::::	
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				ЕМ.
		DISEASES CLASSIFIED.	Broncho-Pneumonia Pneumonia Pleurisy Empyema Asthma Emphysema Emphysema Hæmoptysis	V. DISEASES OF THE DIGESTIVE SYSTEM. Ulcer of Stomach Gastritis Diarrhoea and Infective Enteritis Enteritis Colitis Appendicitis Intestinal Obstruction Intussusception Volvulus Abdominal Tumour Hepatitis Cirrhosis of Liver Gall Stones Rupture of Gall Bladder

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	IFIED	SYSTEM SYSTEM SYSTEM	SKIN SSUE.
	DISEASES CLASSIFIED.	Chron-Veneral Diseases Annexa. Acute Nephritis Pyelo-Nephritis Pyelo-Nephritis Peri-Nephritic Abscess Suppression of Urine Enlarged Prostate Salpingitis Tumour of Uterus Tumour of Uterus Extrauterine Pregnancy Puerperal Hemiplegia Placenta Prævia Puerperal Septicæmia	Puerperal Convulsions II. DISEASES OF THE SKIN THE CELLULAR TISSUE. Senile Gangrene Gangrene Cancrum Oris Dermafitis Erythema
	DI	VI. Non Acute J Chronic Pyelo-N Peri-Ne Suppres Urethris Enlarge Salping Tumou VII. TH Extrau Puerper Placent	VIII. DISEASE: THE CEI Senile Gangree Gangrene Cancrum Oris Dermatitis Erythema

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		75 to 85			::		:::	::	::		65		::	:::	
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ntin	AGES.	35 to 45		:	::		:::	::	::		:		: "	+ : :	
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18		SSIF		:	::	LY I	Mara	ilicus	: :		:	PRODU CAUSES.	::		
	1	CLA	THE	: ;	Hear	EAR	y and	Umk ::	irth		:	0	. ::	::	:
18		ES	OF.	IS ATION	l of l	OF	Sirth bility	jo :	at Bi	E.		LIONS	1:50	broat	Light
		SEAS	DISEASES OF THE	lyelit orm/	natio	TASES	ure E	rhage asis.	at E	OLD AGE.	ecay	AFFECTIONS EXTERNAL	by- ning	ing T	ay
		DIS	DISE	Osteo-Myelitis . MALFORMATION.	Malformation of Heart Spina Bifida	Disi	Premature Birth Atrophy, Debility and Marasmus Icterus Neonatorum	Hæmorrhage of Umbilicus Atelectasis	Injuries at Birth Inattention at Birth		Senile Decay		Suicide by— Poison Drowning	Hanging Throat	канмау паш
A 414	-		IX.	X.	Spi	XI.	Pre At	He	HH	ХП.	Sel	XIII.	Su		

TABLE 10.—Continued.

dramatic	Totals.	n∞ γ + ω + ω α + ω + ω + ω + ω + ω + ω + ω +	1
	Tot		1677
SEX.	Females.	wwa : : : : : : : : : : : : : : : : : :	855
SE	Males.	ашынын4а :аан	822
	95 and up- w'ds		∞
	85 to 95	H H	85
	75 to 85	*	259
	65 to 75	- HH	267
	55 to 65		218
	45 to 55	: : + : + : + + + + + + + + + + + + + +	190
ES.	35 to 45	:: + : + : : : : : : : : : : : : : : :	148
AGES.	25 to 35	::":::::	64
	15 to 25	H:H:::::::::::::::::::::::::::::::::::	55
	5 to 15	H H H H	47
	5 50	ω : α : : : a : : : : : : : : : : : : : :	57
	10 th	111111111111111111111111111111111111111	43
	одн	11111111	236
		III III III III III III III III III II	:
	ED.	SPECIFIED	:
	SIFI	ing ons	nia
	DISEASES CLASSIFIED.	Accident— By Burns or Scalds "Injuries from Falling "Browning "Kick at Football On Ships, Boats, Docks "Railways In Vehicular Traffic "Building Operations "CASES. General Debility Heart Failure "Found Dead " "Kound Dead "Kound Dead "Kound Dead "Kound Dead "Kound Dead "Kound Dead	Totals

TABLE 11.

VACCINATION RETURNS.

Year.	Births.	Success- fully Vaccin- ated.	Died Unvaccin- ated.	Insus- ceptible to Vaccin- ation.	Declar- ations of Cons- cientious objection	unknown or removed	Percentage success- fully Vac- cinated.
1893	1701	1407	180	16		98	82.7
1894	1796	1496	185	28		87	83.3
1895	1874	1560	207	16		91	83.2
1896	1912	1577	231	18		86	82.5
1897	1886	1580	195	15		96	83.8
1898	1847	1491	218	19		119	80.7
1899	1802	1425	245	12		120	79.1
1900	1751	1414	217	7		113	80.7
1901	1821	1502	202	6		101	82.5
1902	1739	1466	163	3		107	84.3
1903	1697	1459	152	6		80	86.0
1904	1683	1435	167	9		72	85.3
1905	1543	1319	153	4		67	85.5
1906	1570	1312	150	6		102	83.6
1907	1504	1240	149	3		112	82.4
1908	1585	1203	134	9		239	75.9
1909	*2681	1889	197	14		581	70.5
1910	*2931	1863	187	5	651	225	63.6
1911	*2851	1630	263	9	771	178	57.2
1912	*2823	1524	164	8	908	219	54.0
1913	*2886	1364	187	6	1055	274	47 - 3
1914	*2972	1294	209	7	1176	286	43.5
1915	*2559	1230	157	8	961	303	48.7

^{*} Returns for whole Borough.

TABLE 12.

ABSTRACT FROM THE METEOROLOGICAL REGISTER KEPT AT THE ORDNANCE SURVEY OFFICE, SOUTHAMPTON, DURING THE YEAR 1916.

								_									
rE.	.9	Dat	24th	17th	26th	29th	19th	17th	25th	3r	14th	7th	6th	4th	17th June	14/6/10	
SUNSHINE.	'smo	Maxim No.oV	6.5	8.95	9.6	13.45	14.2	14.7	13.65	13.4	10.75	7.6	6.85	6.55	14.7	15.5	
0,		Total I	42.1	80.35	77.5	214.7	195.5	191.05	227.65	195.05	142.6	92.2	59.85	43.65	1562.2	1640.7	
	7. T	No. of on which on more	17	24	23	=	15	14	80	14	6	22	91	16	189	178	
RAINFALL.	-	Date	2nd	3rd	27th	20th	9th	4th	6th	29th	1st	3rd	7th	20th	20th Dec.	24/9/15	
RAIN	mi y	Greate quantiti	7.0	27.0	28.0	4.7	6.5	10.3	13.2	33.0	10.5	20.2	23.1	33.5	33.5	51.0	Survey.
		Total	34.7	141.4	97.1	19.0	37.9	41.8	32.9	82.1	46.7	140.1	123.2	103.9	8.006	865.5	Ordnance S
		Date.	23rd	25th	5th &	8th	10th	8th	2nd &	31st	15th	21st	28th	17th	25/2/16 17/12/'6	3/3/09	of Ordn
	·mi	Lower	53	23	27	32	36	39	47	46	37	35	25	23	23	=	1000
		Date	1st &	13th &	14th	27th	21st	17th &	31st	2nd &	1st	5th	11th	31st	31/7/16	22/7/11	Director-Ceneral
TURE	·unt	High	55	53	26	75	92	69	85	83	72	67	28	54	85	88	
TEMPERATURE.		Appro	46.4	40.1	40.4	48.9	55.7	55.1	8.19	64.2	57.8	54.3	45.1	37.3	50.6	51.0	of the
ТЕМ	an.	Min. in Air.	41.8	35.0	35.3	40.1	47.3	48.0	53.2	56.4	8.09	49.6	40.0	32.5	44.2	44.3	courtesy of the
	Mean.	Max. in Air.	6.09	45.2	45.5	57.7	64.1	62.2	70.4	71.9	64.8	59.0	50.1	42.1	57.0	57.7	the
	Mean at	9 p.m.	46.2	39.5	37.5	48.0	53.9	54.2	6.09	62.5	56.3	53.2	44.3	36.7	49.4	49.8	plied by
	Mea	9 a.m.	46.0	39.8	39.3	49.6	56.3	55.8	61.1	63.4	6.73	54.6	44.9	37.2	50.5	51.1	ean sup
		Date	1st	4th	28th	19th &	5th	5th	7th	29th	19th	27th	18th	21st	18th Nov.	18th Nov. 1916	This Table has been supplied by
	·9	Minimu Readin	29.63	29.03	28.86	29.30	29.26	29.40	29.55	29.23	29.57	29.20	28.57	28.79	28.57	28.57	This Tal
BAROMETER.		Date.	31st	1st	3ist	Ist	19th	16th	29th	3rd &	oth 7th	20th	28th	27th	31/1/16	23/1/07	
BAR	·9	Maximu Readin	30.59	30.48	30.48	30.40	30.45	30.29	30.39	30.38	30.36	30.30	30.46	30.28	30.59	30.797	
	n at	9 p.m.	30.25	29.80	29.68	29.93	29.92	29.96	30.06	29.92	30.06	29.90	29.78	29.70	29.912 29.918 30.59	29.937 29.934 30.797 23/1/07	
	Mean	9 a.m.	30.24	29.79		29.94	29.94	29.96	30.07	29.96	30.05	29.90	29.79	29.65	29.912	29.937	
	Month.		Jan	:	March 29.66	April	:	June	:	August	:	Oct	Nov	Dec	For the year	For 10 years, 1907-1916	

Analyst's Department.

Sale of Food and Drugs Acts, 1875 to 1899, and General Analyses.

ANNUAL REPORT

For the Year ending 31st December, 1916.

To the Worshipful the Mayor, Aldermen and Councillors of the County Borough of Southampton.

GENTLEMEN,

I have the honour to submit for your information an account of the work done in this Department during the past year.

Section I .- Food and Drugs Act.

The number of samples submitted under the above Acts during the year 1916 was 548, being 26 more than in the previous year.

Of this number 429 samples were submitted by Inspectors, 52 by residents in the Borough, 22 by residents outside the Borough, and 45 by the Borough of Newbury.

In the following tables the samples received from outside the Borough and from the Borough of Newbury are not included.

The character of the samples, the number of each article submitted, and the percentage of Adulterated Samples are given in Table I.

TABLE I.

Nati	ure of	Article.		Number on Register.	Number of Samples Adulterated.	Percentage Adulterated Samples.
Arrowroot				1		
Baking Powder				5		
Bread and Butte	er			9	3	33-33
Butter				84	3	3.57
Cheese				19		
Coffee				13	I	7.69
Cream				6	2	33-33
Egg Powder				5	· · · · · ·	
Flour				20		
Lard				41		
Margarine				9		
Milk	'			236	28	11.86
Mustard			7	6		
Pepper	,			27		
Totals				481	37	7.71

The adulterated samples, amount of adulteration, prosecutions, and results of proceedings are given in Table II.

TABLE II.

Article Analysed.	No. on Register.	Nature and Amount of Adulteration.	Action taken.	Result.
Bread and Butter	126	100% bread & margarine	Summoned	£1 fine.
-,	129	100% ,, ,,	,,	£1 fine.
,,	158	100% ,, ,,	,,	£1 fine.
Butter	114	100% margarine	Test sample	
**	245	100% ,,	c " 1	
Coffee	273	100% ,,	Summoned Test sample	£3 fine.
Cream	240	57% chicory 100%" preserved cream" 1	Test sample Vendor asked	
Cream	289 290	1000%	for explana'n.	
Milk	87	16.33% fat deficient	Vndr.cautioned	
11	102	6.66% ,, ,,	Summoned	Dismissed on
"				Warranty.
	178	6.66% ,, .,	Test sample	
"	229	6.66% ,, ,,	Vndr.cautioned	D: : : :
11	260	6.33% ,, ,,	Summoned	Dismissed, proved
17				contrary as
	276	18.0% ,, ,,		required.
"	368	34.0% ,, ,,	"	£20 fine.
"	369	42.33% ", "	"	£20 fine.
"	370	3.52% added water	17	
,,	371	8.24% ,, ,. ,	11	£2 fine jointly.
,,	383	8.0% fat deficient	,,	Dismissed on
	20020		D .	Warranty.
"	P9	3.7% added water	Private	
"	p13	10.0% fat deficient	"	
,,	p15	15.26% ,, ,,	,,	
"	p16	22 210/	"	
11	p18	19.23% ,, ,,	",	
11	p19	33.24% " "	,,	
,,	p2I	70.0% fat deficient and	,,	
		35.34% added water		
,,	p26	6.66% fat deficient	,,	
		10.00/		
"	p27	7.25% ,, ,,	",	
,,	p38	7.25% ,, 4.19% fat deficient and	"	
"	P39	2.47% added water	,,	
,,	p40	10.0% fat deficient	,,	
11	P45	9.4% fat deficient and	,,	
	1-2	22.25 % added water		
"	p46	10.0% fat deficient and	,,	
	- 0	1.05% added water		
"	p48	13.35% fat deficient	",	
"	p62	33.66% ,, ,,	**	

The total fines for the year amounted to £50.

The number of samples analysed is 12 more than in 1915.

MONTHLY AVERAGES.

		Fat	Non-fatty solids.	Total solids.
January	 	3.44	8.76	12.20
February	 	3.55	8.83	12.38
March	 	3.56	8.83	12.39
April	 	3.60	8.75	12.35
May	 	3.28	8.89	12,17
June	 	3.49	8.80	12.29
July	 	3.19	8.69	11.88
August	 	3.75	8.55	12.30
September	 	3.97	8.61	12.58
October	 	3.74	8.81	12.55
November	 	3.81	8.78	12.59
December	 	3.88	8.68	12.56

The month of July showed the lowest fat, and September the highest; the month of August showed the lowest non-fatty solids; and May the highest; the month of July showed the lowest total solids and November the highest.

COMPOSITION OF MILK SUPPLY.

Table III shows the average composition of genuine samples for the past seven years:—

TABLE III.

Year		19	10.	19	11.	19	12.	19	13.	19	14.	19	15.	19	16.
Source		Inspectors	Private												
Total So	lids	12.61	12.62	12.48	12.60	12.48	12.54	12.62	13.19	12.53	12.74	12.43	12.83	12.38	12.35
Fat		3.71	3.76	3.72	3.77	3.63	3.64	3.71	4.33	3.66	3.73	3.58	3.90	3.63	3.5

The general averages of genuine samples were:-

	1910	1911	1912	1913	1914	1915	1916
Total Solids	 12.61%	12.49%	12.48%	12.73%	12.54%	12.47%	12.36%
Fat	 3.75%	3.73%	3.63%	3.83%	3.83%	3.61%	3.61%

The general averages for the year 1916 shown above are 12.36 per cent. total solids and 3.61 per cent. of fat.

The quality is lower than for 1915, which was lower than usual.

REMAINING ARTICLES.

These present no features of interest or requiring comment.

SUPPLEMENTARY REPORT.

Public Health (First Series, Unsound Food) Regulations, 1908.

As requested by the Local Government Board, these articles are dealt with separately.

The number of samples received under these Regulations was 14 samples of butter, all genuine and containing boric acid.

The amount present varied from 0.07 to 0.62 per cent.

RAG FLOCK ACT.

Five samples of Rag Flock were submitted, and they all complied with the requirements of the Act.

SECTION II.—CENERAL.

The samples received were:—

Borough Engineer's	Depa	rtment	 I
Medical Officer's	,	,	 23
Police			 10
Private			 19
Waterworks Departs			 I
Water for hardness			 1,045
Total			 1,099

BOROUGH ENGINEER'S DEPARTMENT.

A sample of boiler composition was examined and reported upon.

MEDICAL OFFICER'S DEPARTMENT.

One sample was water from a well, and was unfit for drinking. The other samples were water from the Borough supplies, and in all cases the water was of excellent quality.

POLICE.

These were various, but all requiring Toxicological examination.

PRIVATE.

The samples submitted privately and duties performed were:—

Beef stearine analysis				I	sample
Beverage				I	,,
Boiler Explosion Enquiry	, Boar	d of T	rade	I	attendance
Cotton seed oil analysis				3	samples
County Police Court atte					
Cream of tartar analysis					
Disinfectant ,,					-
Mutton fat				Ι	,,
"Oleo",				2	,,
Palm kernel oil ,,				2	,,
Taking sample of water	at G	overni	ment		"
Mills				I	
					,,
Water analysis					samples
VV (III (III (III V SIS				/1	5311111165

WATERWORKS DEPARTMENT.

This consisted in the preparation and standardising of special soap solution for use at Otterbourne.

WATER FOR HARDNESS.

These have been reported upon monthly, and a summary only is given in the following table:—

SUMMARY OF HARDNESS FOR THE YEAR 1916.

	. Hardness.					
Source.	Highest.	Lowest.	Average.			
Otterbourne—Oxford Avenue	16.70°	4.72°	9.06°			
South Hants-Bitterne Park	14.43°	6.05°	8.920			
" Albany Road	14.65°	3.00°	9.308			

Fees received during the year 1916 ... £38 17 6 Fees outstanding on December 31st, 1916 ... £21 14 0

SUMMARY OF SAMPLES FOR YEAR 1916.

Food and I			 	548
Public Heal		gulations	 	14
Rag Flock	Act		 	5
General			 	1,099

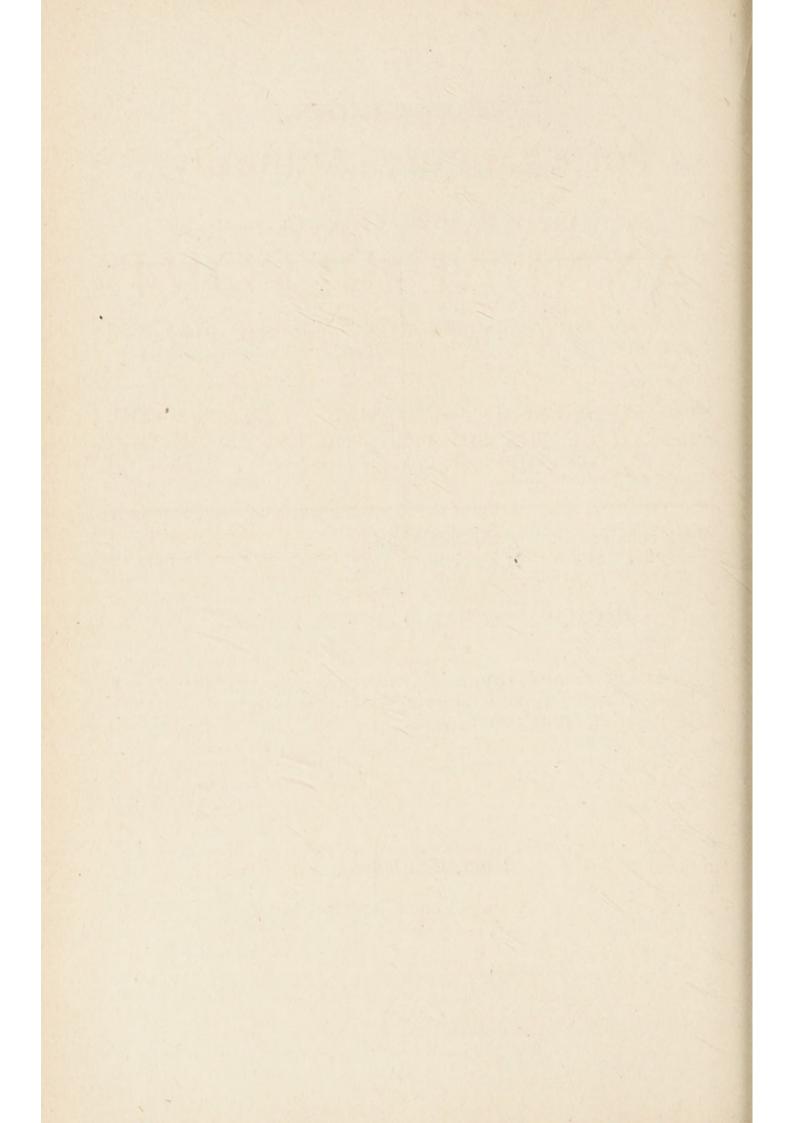
1,666

I am, Gentlemen,

Your Obedient Servant,

J. BRIERLEY,

Public Analyst.



Port Sanitary Authority.

ANNUAL REPORT

For the Year ended 31st December, 1916.

STATISTICS RELATING TO THE TRADE AND THE HEALTH OF THE SHIPPING POPULATION OF THE PORT OF SOUTHAMPTON.

The Port of Southampton continued throughout the year 1916 to be practically closed to all commercial traffic. Statistics relating to the number, tonnage, and passengers and crews of vessels entering the Port are not officially available; nor is it possible to publish any detailed information as to the infectious diseases landed

A large number of cases of infectious disease were landed from Hospital ships arriving at the port during the year. Many of these cases were convalescent on arrival and were removed to various Hospitals for discharge.

The number of vessels visited and inspected by the Port Sanitary Staff amounted to 4,407 compared with 4,798 in the previous year.

The total number of crews and passengers and troops landed in the Port on the vessels that were inspected amounted to 956,672, namely:—

Crews from	m Fore	eign	 	187,619
Passengers	,,		 	710,944
Crews Coas	stwise		 	25,793
Passengers	,,		 •••	32,316
		Total	 	956,672

Owing to the large number of vessels using the Port it was not possible to visit all of them, and no record could be obtained as to the number of crews and passengers on same.

The undermentioned Tables in which it has been usual to give detailed information relating to number of vessels using the Port, tonnage, passengers, crews, and infectious sickness are not published this year. The shipping using the Port is engaged almost entirely in connection with the Expeditionary Forces, and the Statistics are therefore, at the present time of Military importance only, but will be summarised at the end of the War.

The Tables referred to are :-

- Table A.—Showing number of passengers who left for places out of Europe, etc.
- Table B.—Showing number of passengers who arrived at various Ports in England.
- Table C.—Return of number of ships, tonnage, etc., entering the Port.
- Table D.—Detailed return of infectious disease imported by vessels and action taken.
- Table E.—Statistical Summary of ships, tonnage, passengers and crews entering the Po t for 20 years.
- Table F.—Cases of infectious disease landed in the Port during the year.
- Table G.—Table showing the number of cases of infectious disease which occurred in the Port, or were reported to have occurred on vessels which arrived in the Port of Southampton during the year, and particulars as to how they were dealt with.
- Table H.—Infectious diseases reported to have existed on vessels bound for Southampton for 10 years.
- Table I.—Deaths at sea.

PRECAUTIONS ADOPTED TO PREVENT THE IMPORTATION OF INFECTIOUS DISEASES.

VESSELS FROM PORTS INFECTED WITH CHOLERA, PLAGUE, OR YELLOW FEVER.

The Customs are notified from time to time by the Port Medical Officer, in accordance with the regulations, as to ports considered to be infected with Cholera, Plague, or Yellow Fever.

Every vessel coming from a port notified as infected with any of these diseases is visited on arrival at the Boarding Station (between the Hamble Spit Buoy and the Weston Shelf Gas Buoy) by an officer of the Customs. It is the duty of that officer to detain the vessel for examination by the Port Medical Officer, but, to prevent delay, the Medical Officer or one of the Staff accompanies the Customs.

When the vessel discharges passengers by tender off Hamble, the Medical Officer accompanies the tender and makes his examination of the ship before the passengers are transferred to to the tender.

In the case of vessels carrying no surgeon, the crew and passengers are medically inspected. On other ships examinations of persons on board are made whenever it is considered advisable. Each passenger and member of the crew of vessels from infected or suspected ports has to satisfy the Medical Officer as to his destination and intended address at such place before he is allowed to leave the ship.

By the courtesy and co-operation of the Shipping Companies and Transport Authorities, the names and addresses of all persons landing at Southampton from infected ports are obtained during during the voyage and handed to the Port Sanitary Authority on arrival. This is done in order to prevent any vessel which has had a dangerous infectious disease on board during the voyage being detained while such information is being obtained. This practice has been of valuable assistance to the Port Sanitary Authority, particularly in the case of vessels which have had Small Pox on board during the voyage.

VESSELS FROM PORTS NOT INFECTED WITH CHOLERA, PLAGUE OR

YELLOW FEVER.

Passengers or cargo vessels, other than those from infected ports, are boarded immediately they arrive alongside the quays, except when the officers of the Port Sanitary Authority are engaged on other important work.

Cases of sickness are examined by the Port Medical Officer if no Surgeon is on Board; on other ships examinations are made when consultation with the Surgeon indicates the necessity.

Homeward bound vessels which discharge passengers off Hamble are waited on by tenders. The Medical Officer of Health accompanies the tender and receives a report as to the health of the persons on board, and more particularly of those who are to be landed at Southampton. Where circumstances indicate, the Steam Ambulance goes down the River to the vessel in readiness to remove any infectious disease that may exist on board, so as to avoid any delay to shipping.

PLAGUE.

The fact that Plague may exist in rats, and from them be transmitted by certain means to human beings, renders it necessary to adopt special precautions with regard to ships coming from plague-infected ports. A rat order (issued under the Cholera, Yellow Fever, and Plague Regulations of 1907), setting forth the measures to be taken for preventing access of rats from the ship to the shore, is served upon the masters of vessels coming from plague-infected ports, and such ships are visited by the Inspectors at irregular times to ascertain that the necessary precautions are being carried out.

The officers of the Port Sanitary Authority visit ships during the discharge of cargo to ascertain if any dead rats are found. When any are discovered they are submitted to post-mortem examination by the Port Medical Officer, and if any suspicious signs of Plague are found, a bacteriological examination is made. In addition, the rat-catcher periodically provides batches of rats caught on ships and in various parts of the docks. These are submitted to post-mortem examination.

The number of rats captured during the year on vessels and in the Docks and destroyed was 2,290.

The rats were destroyed by burning, either in the ship's furnaces, or the furnaces at the Pumping Station in the Docks, or the furnaces at the Disinfecting Chamber, West Quay.

TABLE J.

VESSELS ARRIVING IN THE PORT OF SOUTHAMPTON FROM PLAGUE-INFECTED PORTS.

The following table gives particulars of vessels arriving from Plague-infected ports during the past seven years.

	2			No. of Vessels.		Arrived	Landed by tender. Vessels	Rat	Number of Rate
	I EAK		Infected.	Suspected.	From Infected Ports.	Docks.	proceeding to other Ports.	served.	killed.
0161	:	1	Nil	III	140	51	89	01	7,047
1161	:	:	Nil	Nil	135	59	78	1.5	6,172
1912	:	i	Nil	1	264	120	144	57	7,292
1913	:	:	Nii	Nil	235	104	131	IO	116,5
1914	:	:	Nil	Nii	164	100	64	27	1,330
1915	:	:	Nii	Nil	89	89	Nil.	98	Nil.
9161	:	:	Nii	Nil	49	49	Nil.	49	Nil.

INFECTIOUS DISEASE.

CHOLERA, YELLOW FEVER, AND PLAGUE.

No case of either of these diseases was reported as having occurred on any vessel which arrived here during the year.

SMALL POX.

Two cases of Small Pox were landed in the Port, both of which were fatal. They were both Military cases. One was admitted to the Isolation Hospital as Measles, but proved to be a case of hæmorrhagic Small Pox, the other case was removed to the Hospital Ship for isolation.

ENTERIC FEVER.

Several cases were reported during the year nearly all of which were landed in the Port. The majority of the cases were convalescent on arrival and were removed to various Military and other Hospitals for observation and discharge. In addition to the foregoing several cases of Paratyphoid Fever were reported and landed, the cases being dealt with in the same manner as the Enteric Fever. Cases which occurred among the crew were admitted to the Borough Isolation Hospital for treatment. Eight cases were reported among the crews of vessels entering the the Port. Seven of these were removed to the Isolation Hospital for treatment. The other case was convalescent on arrival.

SCARLET FEVER.

A few cases of Scarlet Fever were reported, all of which were landed here. Cases in the acute stage were removed to the Borough Isolation Hospital. Convalescent cases were removed to various Hospitals for discharge. One case occured among the crew of a vessel and was removed to the Isolation Hospital for treatment.

DIPHTHERIA.

Several cases were reported, most of which were landed here. The majority of cases were convalescent on arrival and were removed to various Military Hospitals for observation and discharge. Cases in an infectious condition were admitted to the Borough Isolation Hospital. One case occurred among the crew of a vessel and was removed to the Isolation Hospital for treatment.

CEREBRO-SPINAL FEVER.

Most of the cases landed here were convalescent on arrival, those cases requiring further isolation and treatment being removed to the Borough Isolation Hospital.

TUBERCULOSIS.

A large number of cases were landed and transferred to various Military establishments.

DYSENTERY.

A large number of cases were landed here. The majority of the cases were convalescent on arrival. All the cases were removed to various Military Hospitals.

MEASLES.

Several cases occurred among Naval men quartered in the Port. These cases were all removed to the Isolation Hospital for treatment.

Three cases among the crews of vessels were a'so admitted to the Isolation Hospital.

GENERAL SUMMARY OF INSPECTIONS, ETC., CARRIED OUT BY THE PORT SANITARY STAFF DURING THE YEAR 1916.

Steamers (from foreign)	 	 	3,127
Sailing vessels (from Foreign)		 	J,12/
Motor vessels (from Foreign)	 	 	_
Fishing vessels (from Foreign	 	 	_
Steamers (Coastwise)	 	 	1,188
Sailing vessels (Coastwise)	 	 	81
Motor vessels (Coastwise)	 	 	10
Fishing vessels (Coastwise)	 	 	_
T-1-1 Ct C T M			

Total Steam, Sail, Motor, and Fishing vessels

4,407

Crews (from Foreign)				187,619
Passengers (from Foreign)				710,944
Crews (Coastwise)				25,793
Passengers (Coastwise)			•••	32,316
Total Crews and Passengers				956,672
British vessels inspected				4,079
Foreign vessels inspected				57
Satisfactory sanitary conditions				4,369
Defective				38
Re-visits				425
Number of passengers landed by ten	ders			2,753
,, rats cap ured and destre	oyed			2,290
,, vessels where disinfecti	on wa	as carr	ied	
out				35
,, articles of bedding, etc	c., inc	luding	61	
parcels of bedding			re-	
moved for disinfec		from	70	
vessels, 78 trains	and	R.A.M	I.C.	
Depots, etc., in the I				28,354
,, vessels from Plague-infec				49

TABLE K.

Showing number of Vessels inspected, including re-visits, with percentage of defects.

YEAR.	Vessels from Foreign visited.	Coasting Vessels visited.	Total Inspections.	Number found defective.	Percentage defective.
1893	2,976	2,513	5,489	162	2.95
1894	2,196	4,190	6,386	239	3.74
1895	2,212	3,822	6,034	III	1.83
1896	2,312	3,196	5,508	105	1.9
1897	1,692	3,345	5,037	105	. 2.1
1898	1,766	3,136	4,902	48	0.97
1899	1,786	2,585	4,371	42	0.96
1900	1,666	1,795	3,461	52	1.5
1901	3,586	2,549	6,135	73	1.2
1902	2,191	3,464	5,655	175	3.1
1903	1,534	3,453	4,987	208	4.17
1904	1,618	3,555	5,173	140	2.67
1905	1,514	3,070	4,584	94	2.05
1906	1,559	2,750	4,309	71	1.65
1907	1,695	2,898	4,593	88	1.92
1908	1,729	2,593	4,322	60	1.38
1909	1,454	1,998	3,452	48	1.39
1910	1,797	3,052	4,849	80	1.65
1911	1,677	3,125	4,802	81	1.09
1912	1,625	3,562	5,187	93	1.79
1913	1,705	2,060	3,765	82	2.18
1914	1,844	2,354	4,198	61	1.45
1975	2,737	2,061	4,798	50	1.04
1916	3,128	1,279	4,407	38	0.86

TABLE L.

Table showing the total number of vessels visited, showing nationality, description and number defective, from 1st January to 31st December, 1916, inclusive (not including re-visits):—

Nationa	dity.		Steam.	Sail.	Motor.	Total.	Defective
12-4-			KEN DES				
British			3,988	81	10	4,079	38
Belgian			44			. 44	
Dutch			1			I	
French				I		ı	
Italian			3			3	
Norwegian			I			I	
Russian			I	I		2	
Swedish			4			4	
Spanish			I			I	
-3- , -0/2		10		190.00	LIU SOIS		
To	otal		4,043	83	10	4,136	38

GENERAL SANITARY CONDITION OF VESSELS.

The general sanitary condition of vessels using this Port is, on the whole, satisfactory. Most vessels, either on arrival or during their stay, are inspected, and any defect found reported at the time to the officer in charge. As a rule the defect is at once seen to, but should there be any delay or refusal on the part of the officer an official notice is served forthwith, and the master ordered to abate the nuisance within a given time.

In 51 instances insanitary conditions were discovered on vessels. They were principally of an unimportant character, and in the majority of cases were remedied after verbal notice had been given.

In those cases where the vessel sailed before notice could be complied with—if the vessel was proceeding to a home port—information as to the non-compliance was forwarded to the Port Medical Officer of the district to which such vessel was proceeding.

The insanitary conditions discovered consisted of the following:—

Defective stoves and stove pipes in crew's quarters	6
Leaky and defective ports in crew's quarters	12
Defective, foul, and choked condition of w.c.'s and	
urinals in crew's quarters	5
Uncleanly food lockers in crew's quarters	I
Leaky condition of crew's quarters	14
Uncleanly crew's quarters	6
Defective bulkheads in crew's quarters	4
Uncleanly bedding in crew's quarters	2
Decomposing vegetable matter on deck	I

DISINFECTION.

Disinfection was carried out by the Port Sanitary Authority on 35 vessels, 20 Hospital trains and R.A.M.C. Depots, etc., in the Docks.

The number of articles of bedding removed to West Quay amounted to 28,354, including 98 parcels containing quantities of small articles of clothing. The number of articles disinfected is a decrease of 147,214 compared with the total for the previous year, the Admiralty having erected their own S eam Disinfectors in the Docks.

WATER SUPPLY TO VESSELS.

The water barges supplying vessels and yachts in the Harbour with drinking water were frequently inspected, and found in a satisfactory condition.

These barges obtain their water from the Town supply.

REPORT AS TO THE WORKING OF THE PUBLIC HEALTH (REGULATIONS AS TO FOOD) ACT, 1907, FOR THE YEAR 1916.

The regulations are :-

- Unsound Food Regulations (First Series,) 1908.
- 2. Foreign Meat Regulations, 1908.
- 3. Foreign Meat Regulations (Amendment 1909.)

The Regulations were carried out in this Port on the lines adopted in previous years and the supervision now exercised under the Regulations has improved the condition of the food imported.

The Officers of H.M. Customs and Excise willingly give every assistance and co-operation.

The Official forms recommended by the Local Government Board have been in use and are found to meet all requirements.

Notices were issued under the Unsound Food Regulations, and with one exception, voluntary surrender was made for the destruction of the articles detained.

During the year no export notice was served.

Experience has shown that it is more convenient to deal with the condemnation of Foreign Meat under the Unsound Food Regulations, except in those cases where disease is found, or when it would come under the heading of Class 1 or Class 2 of the Foreign Meat Regulations. By dealing with meat under the Unsound Meat Regulations, it permits of trimming, etc., thereby causing the condemnation of the unsound portions only.

Owing to the continuation of War, and the Docks being closed by the Naval Authorities to practically all the regular trading vessels, a considerable decrease in the quantity of food stuffs landed here has again to be recorded.

BEEF (Chilled.).

During 1916 importations amounting to 1,872,090 cwts. were imported into the United Kingdom from the following countries:—United States 388,611 cwts., Argentina 1,275,647

cwts., Uruguay 171,117 cwts., Brazil 36,715 cwts., compared with 2,660,366 cwts. in 1915, being a decrease of 788,276 cwts.

There has been no chilled beef landed at this port during the year.

BEEF (Frozen).

A decreased importation of frozen beef into the United Kingdom has to be recorded, the total landed being 3,346,188 quarters as compared with 4,113,265 quarters imported during 1915, being a decrease of 767,077 quarters.

Decreases are recorded from Australia 551,781 quarters, Argentina 475,671 quarters and 8,875 quarters from Uruguay.

On the other hand there were increases from New Zealand 157,452 quarters and 111,798 quarters from United States, Brazil, Canada and South Africa.

There were 380,762 quarters landed at this Port, compared with 224,323 landed in 1915, being an increase of 156,439 quarters.

MUTTON AND LAMB.

Arrivals during the year amounted to 4,192,298 carcases of mutton and 4,280,438 lambs, being a decrease of 2,271,070, and 1,447,555 respectively on the total of 1915.

Decreased supplies were received from Australia, and New Zealand, whilst South America and United States increased their shipments. Of the totals received, 145,246 carcases of mutton and lamb were landed at this Port.

It will be seen from the summary that over 15 tons of meat were condemned during the year, compared with 11 tons condemned during 1915.

The particulars relating to the importations of Meat into the United Kingdom are taken from Messrs. Weddell and Co's Annual Summary.

OFFAL.

A small quantity of offal was landed during the year amounting to 1,802 packages, which were well packed and in good condition.

The usual procedure of thawing out a portion of each consignment has been adopted and if found satisfactory the consignment was passed.

On the other hand, if unsatisfactory, the whole consignment would be defrosted for examination at the inspection chamber.

PORK AND SCRAP MEAT.

There has been no Pork or Scrap Meat landed during the year.

CEREALS.

A reduced number of consignments have been discharged during the year, which on inspection have been found in good condition.

BUTTER AND CHEESE.

Inspection has been made of these articles and they were found in good condition.

CANNED MEATS.

There has been a small quantity of canned meats landed at this Port during the year.

The usual practice of examining 5 per cent. is still adopted, and if the condition is considered unsatisfactory the whole consignment is examined.

FRESH FRUIT.

The importation of fruit has greatly decreased, only consignments from France and the Channel Islands have been discharged here.

GOOSEBERRIES.

Under the American Gooseberry Mildew (Fruit) Order' 1914, all imported gooseberries were inspected and in several instances disease was detected.

When infected consignments were in transit, the Board of Agriculture and Fisheries were notified, but if consigned to local salesmen the Food Inspector in the Town was notified who at once dealt with same as directed by the Order.

On June 19th, 1916 the Board of Agriculture issued an Order prohibiting the landing of Gooseberries from any place outside Great Britain (except the Channel Islands.)

Proceedings before a Magistrate.

With the one exception below mentioned, no difficulty has been experienced in obtaining the voluntary surrender of the condemned articles.

On October 25th, one case containing one hundred and twelve packages of suet, ex S.S. "Normandy" from Guernsey, was inspected and condemned by a Magistrate.

Samples.

Under Article 8, Public Health (First Series) Unsound Food Regulations, 1908, fourteen samples of Butter have been taken and submitted to the Public Analyst.

The following are the results of the analyses of the samples:—

Butter.—All the samples were genuine and contained Boric Acid varying from .07 per cent. to .62 per cent.

TABLE M.

SUMMARY OF FOODSTUFFS CONDEMNED UNDER THE PUBLIC HEALTH (REGULATIONS AS TO FOOD) ACT, 1907, DURING THE YEAR 1916.

-						30		
Description.	Original Packages.		Loose Articles.		Approximate Total Weight of Goods Condemned.			
	No.	Description	No.	Description	Tons.	Cwts.	Qrs.	Lbs.
Beef (chilled and frozen) Mutton and Lamb Veal Pork Offal, Etc.—	14 49 	Quarters & Carcases &	quan	tity of pieces	5 2	9 19 2 5	3 2 3 0	27 5 8 15
Sheeps Kidneys , Tongues Ox Hearts , Livers , Sweet Breads Sausages Rabbits Fowls Geese Suet (shredded) Hams	2 2 I 10	Bags and Cases and Case Cases and	quan	tity of loose """ tity of loose """ tity of loose """ tity of loose		8 1 3 8	3 1 2 2 2 2	27 22 16 4 0
Canned Meat— Hams (cooked) Fish—	I	Case		" "			2	7
Plaice Soles Halibut Brill Turbot Hake Cod Haddock Herrings Salmon VEGETABLES, ETC.	 29 2	 Boxes and Case	quan	tity of loose	r	5	3	3
Lettuce and Endive Potatoes Egg Yolks Jam	57 195 1 285	Crates Sacks Can Tins			9	4 15 17	3	24 0 27 7

TABLE N.

Table showing for comparison the foodstuffs condemned during the years 1909 to 1916:—

Year.		Tons.	Cwts.	Qrs.	Lbs.
1909		90	14	3	8
1910		137	6	2	25
1911		115	4	0	25
1912		96	15	3	25
1913		99	15	I	5
1914		53	II	0	19
1915		22	18	I	4
1916		28	4	3	25
		_	-	_	
	Total	644	II	I	24
		_	-	_	_

